

A Stevens Publication

Environmental PROTECTION

Management and Problem-Solving for Environmental Professionals

MARCH 1998

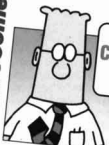


**1998
BUYER'S
GUIDE**

<http://www.omega.com>
e-mail: info@omega.com

omega.com
ΩOMEGA

One Omega Drive, P.O. Box 4047
Stamford, CT 06907-0047



Collection Series

To Request Your
DILBERT® Deck Card Pack, Dial:
1-(203)-329-1266

Get Your Dilbert Card Deck

DILBERT® by Scott Adams

I DON'T CARE WHAT IT
"LOOKS" LIKE ON THE
ORG CHART! YOU'RE AN
INTERN, NOT MY BOSS!



4/11/97

DILBERT © United Feature Syndicate, Inc.

No. 7

SCOTTADAMS@AOL.COM
E-mail: SCOTTADAMS@AOL.COM

I JUST SAW THE NEW
ORG CHART. CONGRAT-
ULATIONS ON YOUR
PROMOTION, ASOK!



4/11/97 © 1997 United Feature Syndicate, Inc.

LET'S GO
MAKE SOME
STRATEGIES
AND PRETEND
IT'S WORK!



NOT SO
LOUD. THE
L-U-S-E-R
MIGHT
HEAR.



Where Do I Find Air/Gas Flow Monitors?
OMEGA...Of Course!

High Flow Rate Mass
Controllers and Meters



Model
FMA700/800
\$903
Basic Model

omega.com
ΩOMEGA

e-mail: info@omega.com

Electronic Boxes/Rate Meter



Document
#4248

FMA-78P2/FMA-78P4
Basic Unit
\$1731

As
Seen
In...

©COPYRIGHT 1997 OMEGA ENGINEERING, INC. ALL RIGHTS RESERVED
Patent Applied For

General Purpose Air
Velocity Transducer

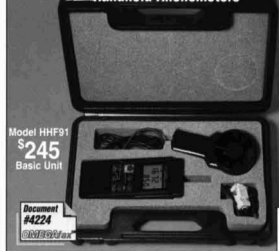
FMA900 Series
\$822



Document
#4029

For more information, call OMEGAfax™
on-line publishing service at 1-800-848-4271
and request desired document numbers.

Handheld Anemometers



Model HHF31
\$245
Basic Unit

Document
#4224

For Sales and Service, Call:

1-800-82-66342



See Dilbert® On The Reverse Side Of This Card!



Where Do I Find pH and Conductivity Meters?
OMEGA...Of Course!



pH/Conductivity
Meters
PHH60/80 Series
\$199

omega.com
ΩOMEGA

e-mail: info@omega.com

Waterproof, Portable pH/Mv and
Temperature Meter



Model
PHH315
\$460

Document
#5118

©COPYRIGHT 1997 OMEGA ENGINEERING, INC. ALL RIGHTS RESERVED



Benchtop pH Meters

Model PHB300
\$415

Document
#5179

For more information, call OMEGAfax™
on-line publishing service at 1-800-848-4271
and request desired document numbers.

<http://www.omega.com>

Portable pH Meter with Case
Model PHH-253-KIT
\$475



Document
#5113

For Sales and Service, Call:

1-800-82-66342



NEW! FREE!

Vol. MM™
21st Century™ Preview Edition

YOUR SOURCE FOR

Temperature pH & Conductivity
Flow & Level Electric Heaters
Pressure, Strain & Force Environmental
Data Acquisition

Request The Vol. MM™ 21st Century™ Preview
Edition **Circle** No. 8 or Dial 1-800-848-4271 for
OMEGAfax™ Service and Request Document #9983
e-mail: info@omega.com
<http://www.omega.com/track/sp-ep/398>



**NEW
FREE!**

OMEGAfax™

OMEGA's 24-Hour-a-Day, On-Demand Publishing Service
DIAL 1-800-848-4271

For Sales and Service Call: **1-800-82-66342**™

ISO 9001
CERTIFIED
CORPORATE QUALITY

omega.com®

ΩOMEGA

OMEGA ENGINEERING, INC., ONE OMEGA DRIVE, P.O. BOX 4047, STAMFORD, CT. 06907-0047
©COPYRIGHT 1998 OMEGA ENGINEERING, INC. ALL RIGHTS RESERVED.

FREE INFORMATION

Follow these
simple steps:

1

Answer all
questions
completely,
sign and date
your card.

2

Circle the
number(s) on
the attached
card that
correspond to the
advertisement
& items
mentioned in
this issue
that you would
like FREE
information on.

3

Detach and mail
your postage-
paid card today!
For faster
service, fax your
card to:

(312) 922-3165

IT'S THAT EASY!

Environmental PROTECTION

FREE INFORMATION

For FREE information on products advertised in this issue, circle the Reader
Service Number on the card below. Please type or print clearly and answer all the questions on the card.

PLEASE SEND ME FREE INFORMATION ON THE FOLLOWING ITEMS:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140
141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160
161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180
181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200
201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220
221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240
241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260
261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280
281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300

3/98 BUYING PLANS SURVEY AIR POLLUTION CONTROL PRODUCTS/SERVICES

1. Which of the following AIR POLLUTION
CONTROL PRODUCTS/SERVICES do you
plan to purchase in the next 12 months?
(select all that apply)

- 800 ☐ Activated Carbon Adsorbers
801 ☐ Electrostatic Precipitators
802 ☐ Fabric Filters (Baghouses)
803 ☐ Thermal Oxidizers
804 ☐ Cyclone Separators
805 ☐ Replacement Filter Bags
806 ☐ Scrubber Packing
807 ☐ Incinerators

- 808 ☐ VOC Emissions Controls
809 ☐ Ceiling Hung Precipitators
810 ☐ Air Quality Instrumentation
811 ☐ Title V Operating Permit Consultant
812 ☐ Fans/Blowers
813 ☐ Recorders
814 ☐ Catalytic Oxidizers

2. What is your projected budget for the
product(s)/service(s)?
815 ☐ Over \$200,000
816 ☐ \$100,001-\$200,000

- 817 ☐ \$50,001-\$100,000
818 ☐ \$10,001-\$50,000
819 ☐ \$5,000-\$10,000
820 ☐ Under \$5,000

3. How immediate is your need for the
selected products/services? (select one)

- 821 ☐ 3-6 months
822 ☐ 7-9 months
823 ☐ 10-12 months
824 ☐ Over 12 months

SUBSCRIPTION INFORMATION

☐ YES, I would like to receive/continue to receive *Environmental Protection*. ☐ No.

Signature _____ Date _____

Title _____

Business Phone (____) _____ FAX No. (____) _____

Please peel address label from cover and affix below. For faster service
photocopy this side only and send to our FAX # (312) 922-3165.

NAME _____

COMPANY _____

ADDRESS _____ ☐ Home ☐ Bus.

CITY _____ STATE _____ ZIP _____ ZIP+4 _____

A. Function which best describes your activity in
Pollution Control (check only one):

- A ☐ Corporate responsibility for Pollution Control
B ☐ Manage all Pollution Control Operations at
this location
C ☐ Supervise sub-group in Pollution Control
Operations
D ☐ Provide professional consulting service on
Pollution Control
E ☐ Provide staff environmental service on
Pollution Control
Z ☐ Other _____

- ☐ (29) Petrol. & Coal ☐ (38) Instr./meas./
☐ (30) Rubber/Plastic analyze/controlling

- B ☐ Mining C ☐ Agriculture
D ☐ Engineering & L ☐ Consulting
Contracting M ☐ Insurance
E ☐ Utilities, public, private & cooperative
F ☐ Govt. including municipal or district sanitary
water or wastewater treatment sys. or plants
Type of Govt.:
G ☐ City H ☐ County I ☐ State J ☐ Federal

- C ☐ Chemicals
D ☐ Parts & equipment for maintenance
operation & control
E ☐ Services/Consulting
F ☐ None of the above _____

- E. What types of Pollution Control are you
responsible for? (check all that apply)
A ☐ Air B ☐ Water
C ☐ Noise D ☐ Solid Waste Disposal
E ☐ Industrial Hygiene
F ☐ Toxic & Hazardous Material
G ☐ Energy Control/Energy Conservation
H ☐ None of the above _____

B. Type of Business (check only one):

- A ☐ Manufacturing. If manufacturing, please check
the appropriate SIC (check only one):
☐ (20) Food ☐ (31) Leather
☐ (21) Tobacco ☐ (32) Stone/Clay/Glass
☐ (22) Textile ☐ (33) Primary Metal
☐ (23) Apparel ☐ (34) Fab. Metal
☐ (24) Lumber & Wood ☐ (35) Mach., except Elect.
☐ (25) Furniture ☐ (36) Elect. & Electron
☐ (26) Paper Mach
☐ (27) Print/Publish ☐ (37) Trans. Equip.
☐ (28) Chemicals ☐ (39) Miscellaneous Mfg.

- K ☐ Transportation N ☐ Labs
O ☐ Training P ☐ Real Estate
Z ☐ Misc. Services _____

C. Number employed at this location:

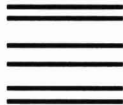
- A ☐ 1-19 B ☐ 20-49 C ☐ 50-99
D ☐ 100-249 E ☐ 250-499 F ☐ 500-999
G ☐ 1000-1499 H ☐ 1500-2499 I ☐ 2500 and up

D. In your job function do you recommend, spec-
ify or purchase? (check all that apply)

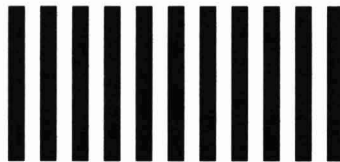
- A ☐ Pollution Control Equipment
B ☐ Instrumentation

F. Which of the following publications do you
receive personally addressed to you?

- (check all that apply)
A ☐ Pollution Engineering
B ☐ Environment Today
C ☐ Environmental Solutions
D ☐ Pollution Equipment News
E ☐ The National Environmental Journal
F ☐ Water Environment & Technology
G ☐ None of the above _____



NO POSTAGE
NECESSARY
IF MAILED
IN THE
UNITED STATES



BUSINESS REPLY MAIL

FIRST CLASS MAIL PERMIT NO 1791 WACQ, TX

POSTAGE WILL BE PAID BY ADDRESSEE

Stevens Publishing

**Environmental
PROTECTION**

Creative Data

650 S. Clark St. Floor 6
Chicago IL 60605-9626





**“New things are made familiar,
and familiar things are made new.”**

Samuel Johnson, 1709-1784

While it's true that change is inevitable, it can be a more comfortable process if you have a partner you trust to help you manage it. Rust Environment & Infrastructure is a familiar part of the engineering and scientific services landscape, and for nearly 90 years we've grown and changed along with our customers.

Because we make it our business to know your business, we're able to transform leading-edge technology into common sense solutions to your evolving environmental and infrastructure challenges.

For more information about our multidisciplinary capabilities, contact your local Rust office, call 1-800-868-0373 or visit us online at www.rustei.com.

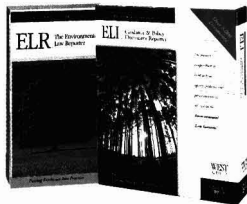
RUST

Rust Environment & Infrastructure

Circle 9 on card.



FINALLY — A SUNNY OUTLOOK FOR ENVIRONMENTAL LAW RESEARCH



Want to see how your peers have handled cases similar to yours? Looking for that must-have agency document? Analyzing key environmental issues? Whatever your concerns, don't be left out in the cold! Rely on over-the-top research tools that keep you abreast of new directions in the environmental field and new advances in your practice.

So warm up to *ELR* — *The Environmental Law Reporter*. Just a few clicks of the mouse lets you jump to and from news and analysis, cases, litigation documents, administrative materials, CFR, federal statutes, and state regulations and statutes. An industry newsletter keeps you informed of what's new, what's working, and what's best for your practice.

Looking for that elusive agency document? No problem. *ELI Guidance & Policy Document Reporter* provides over 3,000 hard-to-find agency guidance and policy documents — complete with incisive analysis from the agency staff and all original graphics. A Subject Matter Index sorts the documents into topical and sub-topical federal environmental areas for easy access.

Developed by the Environmental Law Institute, *ELR* — *The Environmental Law Reporter* and *ELI Guidance & Policy Document Reporter* are the most powerful sources of environmental law research on the horizon. To find out how you can bask in the glow of these powerful research tools ...

CALL: 1-800-255-2549
PLEASE PROVIDE OFFER NUMBER 807753



Circle 10 on card.

About the cover:

In recent decades, industrial development and its accompanying pollution have torn into the world's environment and adversely affected natural resources. To reverse this trend, U.S. companies are developing new products and services that promote cleaner air and water and clean up contamination of the land. The 1998 Buyer's Guide, which begins on page 97, provides you with the names of companies throughout the United States that have the technology and expertise you need to solve your environmental problems.

Cover design by Kathleen Logan
and Greg Lakoufi

ENVIRONMENTAL PROTECTION (ISSN # 1057-4298, USPS #006-703) is published monthly, Vol. 9, No. 3. © 1997 Stevens Publishing Corp., 5151 Bettine, Suite 1010, Dallas, TX 75249-6738. Phone (972) 687-6700. Periodicals postage paid at Dallas, TX and additional mailing offices. Subscription rate for Environmental Protection is \$99 for 1 year. Subscriptions mailed to Canada please add \$25, to Mexico, please add \$25. For all other foreign countries, please add \$35. POSTMASTER: Send address changes to ENVIRONMENTAL PROTECTION, P.O. Box 712, Mount Morris, IL 61054-0712. For customer service call (815) 734-1208. Publication of signed articles does not constitute endorsement of personal views of authors. All rights reserved. Requests for back issues should be made within three months of publication. The publisher is not responsible for the contents of the articles herein, and any person following the advice or procedures in these articles does so at his or her own risk. Articles appearing in this journal are indexed in the Environmental Periodicals Bibliography. Authorization to photocopy items for internal or personal use is granted by Stevens Publishing Corp., provided that the base of U.S. \$0.50 per copy, plus U.S. \$0.03 per page is paid directly to Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923 USA (508) 750-8400.



contents

Environmental Protection • March 1998 • Volume 9, Number 3

features

20 Watershed Gets a Facelift

This unique mitigation project next to an impacted watershed includes custom-designed wetlands and stream enhancements

By Roger Zyma, Gary Von Stetina and Deborah E. Lynch



page 20

26 Negotiating Operational Flexibility into Your Title V Permit

Take steps now to modify your air permit application to save time and money in years to come

By Joseph Curreri

32 Environmental Audit Legislation: EPA vs. The States

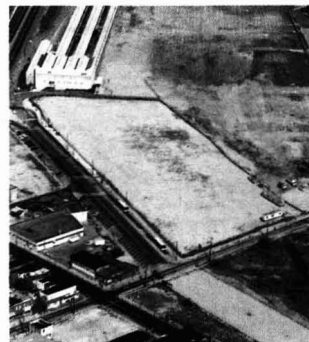
The disparity between EPA's audit policy and many state audit laws leaves companies without complete protection when conducting an environmental audit

By Donald J. Parthum, Jr., JD, and John M. Brown, JD

40 Environmental Cleanup Paves the Way

One brownfield site is redeveloped to become a cost-effective commercial property

By Vern Singh, PE, and Thomas Boyd



page 40

45 Product Stewardship: A New Mindset

Part Two of a two-part series outlines how responsible product management

can increase corporate earnings and cut costs

By Gregory G. Bond, PhD

48 Controlling Tetraethyl Lead Emissions During Remediation

One New Jersey cleanup project cost-effectively eliminated organic lead emissions by using enclosures and air treatment systems

By Brian Ambrose, CHMM, William J. Barnes and Mary L. Glowacki, CHMM

54 Horizontal Wells Access Jet Fuel Contamination

Remediation project uses horizontal wells at New York's JFK Airport to clean up spilled jet fuel

Visit our Web Site at <http://www.eponline.com>

contents

58 Waste Management in the Age Of Electronic Commerce

Waste generators and waste management companies can enhance services and operations through electronic commerce

By Eliot Cooper and Janet Gellici

65 Mercury Site Characterization

A review of characterization protocols for mercury-impacted soils at manometer sites

By Douglas E. Birkbeck, MS, and John Veenstra, PhD, PE

70 1998 Salary Survey

Here's your chance to be a part of EP's annual survey of environmental professionals' salaries

97 1998 BUYER'S GUIDE

100 Products and Services

An alphabetical listing of companies offering the products and services you need listed under detailed category headings

169 Company Profiles

An alphabetical listing of companies that sell environmental products and services featuring each company's name, address, phone number, Web site, e-mail address and the types of goods and services they offer



page 70

departments

- | | |
|--|--|
| 8 From the Editor | 69 In the Lab |
| 14 Letters to the Editor | 71 New Products |
| 10 EP Newswire | 88 Product Literature |
| 16 Grapevine | 88 Classified Ads/Professional Directory |
| 18 In Print | 186 Advertiser Index |
| 61 Legal Watch | |
| Surviving a Government Inspection | |
| By R. Henry Moore, JD, Stephen G. Allen, & Heather A. Wyman, JD | |

Environmental PROTECTION

EDITORIAL

- Publisher Craig S. Stevens
 Group Publisher Dana Cornett
 Associate Publisher Randy Dye
 Editor-in-Chief Angela Neville, JD, REM
 Managing Editor Ashley E. Blyth
 E-mail: ablyth@cmpu.net
 Assistant Editors Kristie L. Guilloitte
 E-mail: kguilloitte@cmpu.net
 Ingrid Truemper
 E-mail: itruemper@cmpu.net
 Contributing Editors Stephen G. Allen, JD
 Brain Ambrose, CHMM
 William J. Barnes
 Douglas E. Birkbeck, MS
 Gregory G. Bond, PhD
 Thomas Boyd
 John M. Brown, JD
 Eliot Cooper
 Joseph Curreri
 Janet Gellici
 Mary L. Glowacki, CHMM
 Deborah E. Lynch
 R. Henry Moore, JD
 Donald J. Parthum, Jr., JD
 Vern Singh, PE
 John Veenstra, PhD, PE
 Gary Von Stetina
 Heather A. Wyman, JD
 Roger Zyma

PRODUCTION/MARKETING

- Production Director Alice Robinson
 Advertising Production Manager Valerie Riggs
 Art Director Kathleen Logan
 Graphic Production Greg Klakouti
 Helen Tuohy
 Corporate Circulation Director George Andrew
 Circulation/Marketing Manager Margaret Perry

ADVERTISING SALES

- District Sales Managers
 Central/Midwest Kenton R. Deardorff
 (972) 687-6704
 East & West Coasts Devin Dreiling
 (972) 687-6702
 Southeast Kevin Miller
 & South Central (888) 311-7756
 1709 E. Hillier Robinson Pkwy.
 Oxford, AL 36203
 National Classified Sales Manager Stan Pruitt
 (972) 687-6726
 Classified Sales Representative David Schwartz
 (972) 687-6727
 Classified Sales Assistant Nancy Crowson
 (972) 687-6730
 National List Sales Manager Glenn Meserole
 (972) 687-6714

ADMINISTRATION

- President Craig S. Stevens
 Controller David Martin
 Business Manager J. Gregory Nystrom

Environmental Protection welcomes readers' letters; unsolicited manuscripts; suggestions for articles and photo shoots; and releases of news, products, services, literature, non-profit resources, business updates and meetings. Editorial Offices: *Environmental Protection*, 5151 Bellline, Suite 1010, Dallas, Texas 75240; phone (972) 687-6700.

Stevens Publishing grants authorization to photocopy/reproduce items for personal, internal, client, academic and educational use, provided that a base fee of \$.50/copy plus \$.03/page (fee code 0362-4064/95) is paid directly to Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923; (508) 750-8400.

**FEDERAL
DEADLINE
AHEAD**

UNDERGROUND TANK DEADLINES ARE "JUST AROUND THE BEND"!

***The 10-year USEPA
Compliance Schedule
ends on December 22,
1998 and this could
affect you!***

It's the Law...

Federal USEPA 40 CFR 280
Technical Standards and
Corrective Action Requirements
for Owners and Operators
of Underground Storage
Tanks (UST)

Penalty signs ahead

There's no turning back! If you want to avoid fines, your regulated tank systems must meet standards. First, they must be corrosion-resistant (single wall for petroleum -- secondary containment for hazardous substances). They must also have spill and overflow prevention equipment and release detection. All installations must also be certified.

You have options

1) You can upgrade your existing systems to meet the new standards. 2) Replace

potential trouble makers with new underground or aboveground tank systems. Or, if you don't need the storage, 3) close your tanks.

What's the best route?

Call Lexicon. We're storage tank experts. Our experience with fleets helps us to spot danger signs and map out alternative routes to avoid tolls.

If your tanks are already in compliance, we'll help you manage to keep them that way. Environmental compliance may not be a free ride, but it's the highway to the future!

**LAST EXIT
BEFORE TOLL**



LEXICON

Environmental Associates, Inc.

790 East Market Street, Suite 270 West Chester, PA 19382-4806

(610) 344-3380 FAX: (610) 344-3388

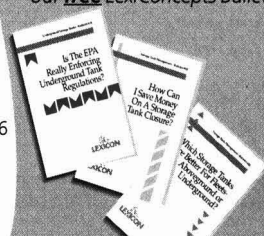
email: LexiconEn@aol.com

Circle 11 on card.

Regional Offices in Metro-New York and New England

Tips on Tanks:

Let us help you stay on top of your tanks. Call or Fax today to receive our **free** LexiConcepts Bulletins.





Beyond Checklists: The New Environmental Audits

In the 1970s and 1980s, companies performed environmental audits for one main reason—to prevent regulators from whacking them with fines and jail time for violations of environmental laws.

The explosion of regulations at the federal, state and local levels during that era continuously ratcheted up industry's anxiety level. To ward off the regulatory bogeyman, companies dispatched audit teams with checklists in hand throughout their facilities to review the plant operations and determine if they conformed with applicable laws. Typically, the audits would cover a wide range of concerns, such as evaluations of monitoring, reporting, recordkeeping, the need for or status of permits and the operation and condition of pollution control equipment.

Now, audits are taking on an added dimension. Besides dealing with compliance issues, they are evolving into sophisticated tools used in formatting business strategies and management effectiveness. This mirrors the trend of corporate America's opting for green practices—not out of fear of regulators—but rather because they make good economic sense. Sometimes referred to as internal audits, these investigations into management-related activities may include assessment of the success of existing environmental management systems, evaluation of the environmental risks from operational practices and assessment of the company's operations that may require future pollution control expenditures.

In growing recognition of audits' many benefits, numerous states have recently passed legislation to encourage their use by businesses. Yet, ironically at the same time the states are promoting audits, the federal government is taking steps that are causing companies to think twice about doing such self-evaluations. One of our features this month, "Environmental Audit Legislation: *EPA vs. the States*," which starts on page 32, focuses on this clashing between state and federal laws. According to the article's authors, the audit laws of many states, which grant companies immunity from state penalties when they voluntarily disclose lapses in compliance, do not shield these same companies from penalties imposed by the U.S. Environmental Protection Agency.

Along the same lines, the adoption last year of the credible evidence rule (*Federal Register*: Feb. 24, 1997, Vol. 62; pages 8313 to 8328) established that citizens and enforcement officials can use any evidence permitted under state and federal rules of evidence to prove a violation of the Clean Air Act. Once an action is brought in federal court, it will be up to the court to decide the scope of the privilege under state audit laws and balance it against the use of the federal credible evidence rule.

Ideally, audits are intended to help companies avoid litigation by improving their compliance with environmental laws. But, with the current uncertainty created by the discrepancy between state and federal laws, companies are beginning to view audits as potential weapons that can be used against them in lawsuits and fear they may end up defending themselves in federal court against information they voluntarily disclosed under state laws.

Given that self-assessment can be a valuable tool in promoting environmental excellence in corporate operations, EPA needs to reevaluate its current policy and work with the states to encourage companies' use of audits.

Angela Neville

Angela Neville, JD, REM
Editor-in-Chief

Environmental PROTECTION

ADVISORY BOARD

Randall Airst, JD, LLM
Brownfields Redevelopment Division
American Land Recycling Corp.
Exton, Pa.

Gregory G. Bond, PhD
Corporate Director of Product Responsibility
The Dow Chemical Co.
Midland, Mich.

Charles Calmbacher, PhD
President, Principal Scientist
SEA Group Inc.
Lawrenceville, Ga.

Ann N. Clarke, PhD, CET, REA
President
ANC Associates Inc.
Brentwood, Tenn.

Paul Farber, PE, DEE
Technical Director
R. A. Kerley Ink Engineers, Inc.
Broadview, Ill.

Howard Gilberg, JD
Environmental Attorney & Shareholder
Thompson & Knight, PC
Dallas, Texas

Lawrence H. Keith, PhD
Corporate Fellow
Radian International LLC
Austin, Texas

Stephen Koenigsberg, PhD
Vice President for Research and Development
Regenesis Bioremediation Products
San Juan Capistrano, Calif.

Barbara J. Mickelson, PE
President, Acton Mickelson Environmental
El Dorado Hills, Calif.

Susan Moore
Senior Director of Environmental Affairs
Georgia Pacific Corp.
Washington, D.C.

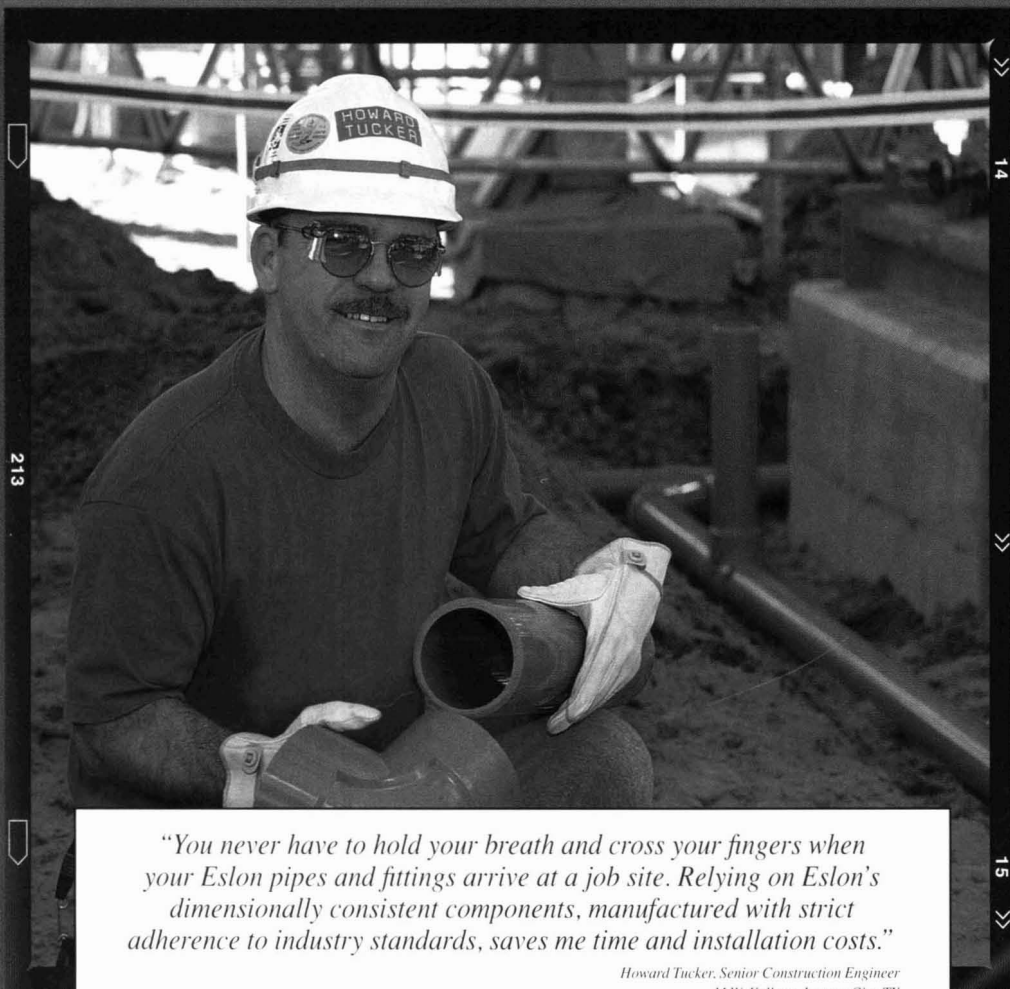
George W. Siple
Senior Air Quality Scientist
Camp Dresser & McKee Inc.
Cambridge, Mass.

Robert P. Smith, PhD, PE
Brown & Root, Environmental Services
Dallas, Texas

John R. Stukenburg, PhD
Executive Partner,
Black & Veatch
Kansas City, Mo.

Richard Watkins, PE
N.C. Environmental Management Commission
Raleigh, N.C.

"What I Like About Eslon Is How Precisely Their Pipes & Fittings Fit."



"You never have to hold your breath and cross your fingers when your Eslon pipes and fittings arrive at a job site. Relying on Eslon's dimensionally consistent components, manufactured with strict adherence to industry standards, saves me time and installation costs."

*Howard Tucker, Senior Construction Engineer
M.W. Kellogg, League City, TX*

Piping solutions should solve problems, not create them. That's why specifying pipes and fittings made to work together by a single manufacturer makes such good business sense.

Eslon was the first manufacturer licensed to produce **both** pipe and fittings from **Corzan™ CPVC** engineered plastic. Online quality control and sophisticated laboratory testing assure that all of our products meet exceptionally high standards for dimensional accuracy, mechanical strength and surface finish.

Why suffer through an on-site surprise? When you specify components for your most critical piping applications, Eslon is the only name you need to know.

Total quality. Product availability. And superior technical support. It all comes together with Eslon.

Eslon Thermoplastics
PO Box 240696, Charlotte, NC 28224
1-800-578-7681, 704- 889-2431
FAX: 704-889-2810
www.eslon.com



Quality. Service. Leadership.

Corzan is a trademark of The BF Goodrich Company and is registered or under application in various countries of the world.

Compiled by Kristie Guillotte

Global Warming Attitudes

TORONTO—The first commercially available survey of global environmental attitudes in 5 years was conducted by Environics International, a Canadian environmental group. Of the 24 countries surveyed, the United States appears the least concerned.

Twenty-seven thousand people were interviewed in person and by telephone

between January and April of 1997.

When asked if "we should assume the worst and take major action now to reduce human impacts on climate, even if there are major costs," 46 percent of U.S. respondents said yes. Another 46 percent said that "we should wait until we know more," and 8 percent did not agree with either statement.

More people in other developed countries who participated in the survey want to take strong action now despite the

economic costs. Seventy-four percent in France, 71 percent in Italy, 70 percent in Switzerland, 69 percent in both Japan and Korea, 67 percent in Australia, 64 percent in New Zealand and 61 percent in both Canada and Chile want to see environmental problems addressed.

Environmental problems endangering children were of major concern. Ninety-seven percent in India, 95 percent in both Italy and China, 93 percent of the people in the countries of Peru, Hungary, India, Chile and Canada, 92 percent in Poland, 91 percent in the U.S., Australia and Finland and 90 percent in both Great Britain and Switzerland believe environmental problems affect children either a "great deal" or a "fair amount."

LESS IS MORE!

LESS containers needed

1 Bonanza replaces four 55-gallon drums.

LESS disposal costs

34# for 1 empty Bonanza; 200# for 4 drums.

Save up to 40%.

LESS storage space

330 Bonanzas (1 truckload) = 1320 drums (8 truckloads)

LESS handling

Manifest, label and handle 1 Bonanza instead of 4 drums.

= More Profit For You!

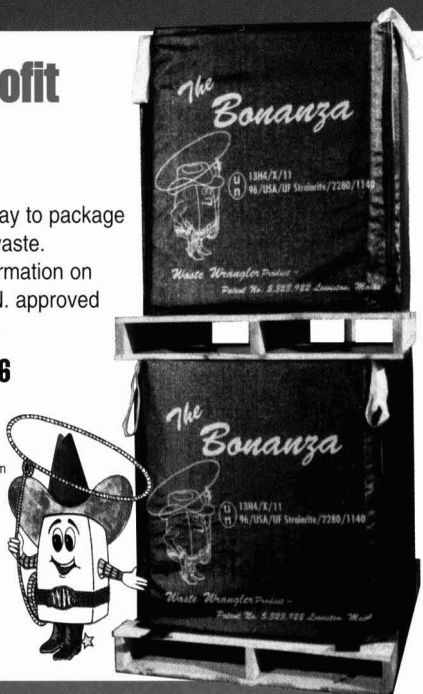
The Bonanza:

A cost effective way to package your hazardous waste.

Call for more information on our full line of U.N. approved Waste Wranglers.

1-800-487-3136

U.F. Strainrite, Inc.
48 Commercial St.
Lewiston, ME 04241
Email: ufs@exploremaine.com



Battle Over Nuclear Waste

WASHINGTON, D.C.—The U.S.

Department of Energy has to accept and dispose of civilian nuclear waste or face paying billions of dollars. A D.C. Circuit court ruled November 14, 1997, in *Northern States Power Co. vs. Department of Energy* that the agency must adhere to the Nuclear Waste Policy Act (NWPA).

In addition to the NWPA, which imposes upon the DOE an unconditional obligation to take and dispose of civilian nuclear power plants' radioactive waste, the department signed contracts with civilian nuclear utilities promising to dispose of their waste. A fee on consumer electric bills would cover the cost of the disposal.

In 1995, the DOE argued that because no repository or interim storage facility was available, it did not have a contractual duty to dispose of the waste. In 1996, a D.C. Circuit court rejected this argument in *Indiana Michigan Power Co. vs. Department of Energy*. Last June, the DOE went back to court, in the *Northern States Power Co. vs. Department of Energy* case; arguing that "because of an array of technical and regulatory problems, the delay in disposal was, according to its interpretation of the contracts 'unavoidable' due to acts of Government in its sovereign capacity, and thus the agency was not responsible for any monetary damages either."

According to the Northern States case, DOE may not avoid contractual compliance, or "absolve itself from bearing the costs of its delay if the delay is caused by the government's own act. This cannot be a valid interpretation, as it would allow

**IF YOU'RE
RIGHT,
IT COULD BE
AN EMERGENCY.**

**IF YOU'RE
WRONG,
IT COULD BE
A DISASTER.**

HAPSITE in use during a recent emergency situation in Houston, Texas.

HAPSITE® quickly identifies unknown VOCs on-site to help you make the right decision.

A worker gets a headache, someone reports a suspicious smell, a spill takes place nearby, and it's your responsibility to identify the substance and assess the risk. Do you evacuate the plant and sacrifice production time? Do you give the all-clear sign and risk being wrong?

Make the right decision, fast, with **HAPSITE**—the only portable gas chromatograph/mass spectrometer (GC/MS) that gives confirmatory results on-site. Just carry **HAPSITE** to the incident area, take a sample, run the analysis, identify the VOCs in minutes, and immediately plan response and correction.

HAPSITE is a totally self-contained GC/MS that detects, speciates and quantifies unknown VOCs. Other detectors, monitors or chromatographs provide some information during an incident, but only **HAPSITE** positively identifies unknown VOCs fast and on-site, so you can determine risk.

**Make the right decision.
Call today for a free demonstration
or more information.**

Phone: 800-223-0633 Fax: 315-434-2520

<http://www.inficon.com> E-mail: reachus@inficon.com



OPENING THE FIELD TO NEW IDEAS®

INFICON®

©1998 Leybold Inficon

the executive branch to void an unequivocal obligation imposed by Congress."

Fourth Graders Learn Hands-On About Recycling

WASHINGTON, D.C.—More than 15,000 teachers nationwide are getting their students involved in recycling through a new program, "Aluminum

Beverage Cans: The ABCs of Environmental Education." The program was developed by the Can Manufacturers Institute (CMI) and the North American Association for Environmental Education (NAAEE). It brings together different perspectives and diverse skills to produce a balanced, useful set of in-class lessons and experiments.

Aluminum cans are used as a snapshot of the role scientific and environmental concerns play in the development of packaging. By studying the attributes of aluminum cans, students see firsthand the challenges that industry faces in protecting the environment while also providing consumers with safe, enjoyable products.

The program comes to an end on April 1, 1998, with the presentation of cash awards for students who collected the most cans per capita and those students with the most innovative ideas on helping their community recycle.

Selective Catalytic Reduction Widespread

WASHINGTON, D.C.—The Institute of Clean Air Companies (ICAC) released a revised version of its white paper, *Selective Catalytic Reduction (SCR) Control of NO_x Emissions*. ICAC's SCR Committee prepared this revision, the first since 1994, to incorporate recent information on the capabilities, limitations, applications and costs of SCR. The paper also provides an updated list of SCR installations in the United States.

In the SCR process, ammonia is injected into exhaust gases containing nitrogen oxides. A catalyst promotes the reaction of ammonia with NO_x to produce harmless nitrogen gas and water vapor. Control levels of greater than 90 percent are achieved in many cases, with unreacted ammonia emissions often below two parts per million. In some cases, systems providing lower levels of control have been installed to meet less stringent permit limits.

Jeffrey C. Smith, ICAC executive director, said, "SCR, invented and patented in the United States almost 40 years ago, is being used to control NO_x emissions from hundreds of units in this country, including boilers, stationary internal combustion engines, gas turbines, process heaters, annealing furnaces and chemical plants." Smith believes that SCR will play an important role in reducing NO_x emissions to meet the acid rain rules, the Ozone Transport Region NO_x budget limits and the cap-and-trade program to be set up in response to the EPA state implementation plan.

ROYCE IS DISSOLVED OXYGEN



- Portable analyzer
- Economy analyzer
- Full-featured analyzer
- Self-cleaning sensors
 - Electrochemical (patented)
 - Water-jet
 - Air-jet
 - Floating ball
- Direct aeration control capability (Save up to 50% of total energy costs)
- Analog and digital communications

Royce has the broadest line of dissolved oxygen instrumentation of any company in the world. We can supply a system specific to your application.

For More Information:

In the U.S. and Canada: **1-800-347-3505**

Immediate FAXBACK information: 504-254-3756

Internet: <http://www.royceinst.com>

E-mail: info@royceinst.com



13555 Gentilly Road
New Orleans, LA 70129
504/254-8888
FAX: 504/254-8855



World Class Designs - From a World Class Company CONFORMANCE

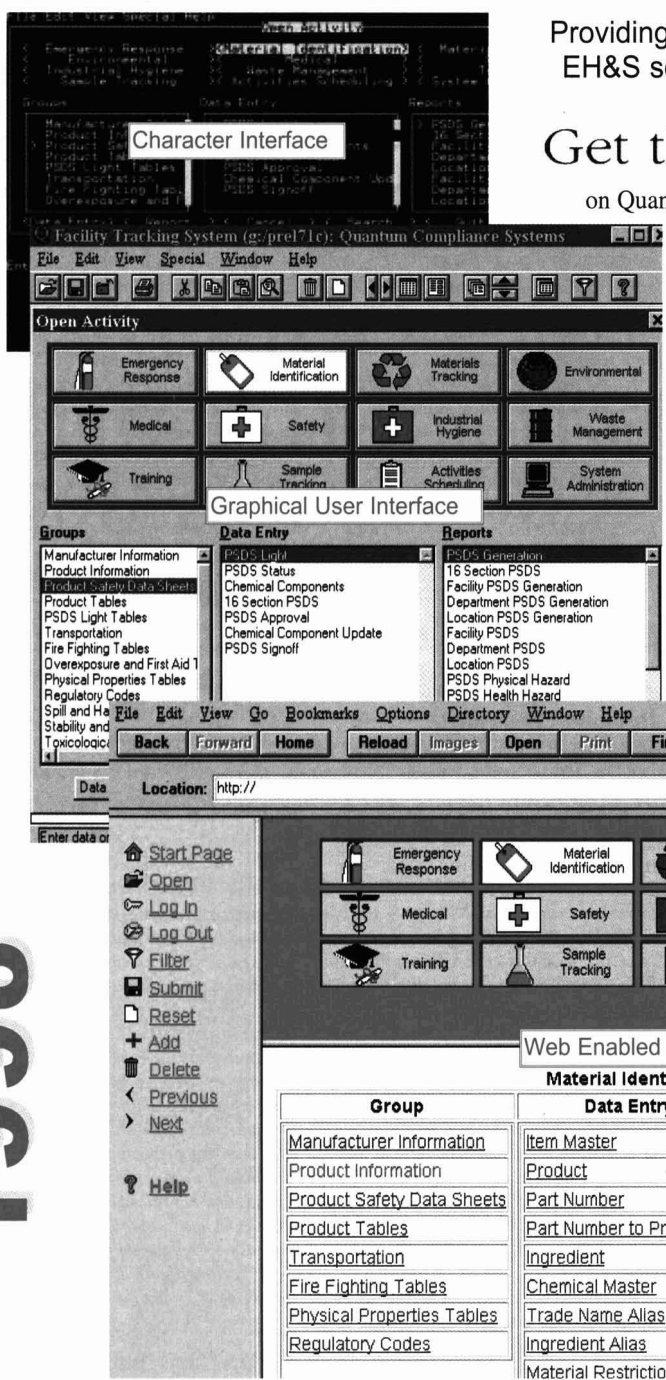


CE

1987

1995

1998



Providing comprehensive integrated
EH&S solutions for over ten years

Get the FacTS™

on Quantum's Facility Tracking System

Fact #1:

FacTS is successfully installed and working in diversified industries

Fact #2:

FacTS offers a global enterprise system with integrated multilingual capabilities

Fact #3:

FacTS includes over 30 proven modules to address all areas of EH&S regulatory record keeping

QUANTUM
Compliance Systems, Inc.

Phone: (734) 761-2175
Fax: (734) 761-2058

WWW: //www.qcs-facts.com/
E-Mail: quantum@qcs-facts.com



Copyright © 1998 Quantum Compliance systems, Inc. All rights reserved. All registered trademarks are the properties of their respective owners.

Group Flames WTI Incinerator Project

In your October 1997 issue, an article entitled "Voluntary Environmentalism" and written by Alfred Sigg, Daniel Zorbin and Edward J. Sowinski contained many inaccurate and misleading statements.

One of the most glaring inaccuracies was the statement, "Most residents generally favor and support WTI's operation." I challenge the authors of that sentence to support it with verifiable evidence.

I have in my possession signatures of approximately 15,000 citizens opposing the building and operation of the WTI facility. In 16 years of opposition to this facility, I have never seen nor heard of most residents favoring or supporting this facility.

I would like to inform you that Save Our County Inc. (SOC) has never been a member of the Tri Lateral Committee.

When the article stated "All of the participants except SOC signed the statement..." it leads the readers to assume that SOC was a member.

I suggest for your own benefit you demand that the authors of this article provide you with evidence that is verifiable, supporting their assertions.

Alonzo Spencer, President
Save Our County, Inc.
East Liverpool, Ohio

Edward J. Sowinski, PhD, DABT, CIH, Environmental Health Management and Science, responds: *Our article, "Voluntary Environmentalism," summarizes a novel, multifaceted environmental monitoring program associated with a hazardous waste incinerator. The program is noteworthy since it was not required by regulation. Instead, it was designed and implemented voluntarily in addition to the extensive regulatory requirements for waste incinerators. It is especially notable since it was considered at the time of inception to be responsive to the concerns of a small number of local citizens rather than a large majority.*

The basis for action involved the premise that any concern pertaining to the environmental impact of an industrial facility, even if expressed by only one person, merits due consideration on behalf of responsible parties. This concept, carried forward by the local board of health and the mayor of

East Liverpool, Ohio, led to voluntary, cooperative and tangible support by FDA, EPA, state agencies, the owners of the incinerator and others in the development of specific environmental monitoring programs aimed at addressing local citizen concerns. This was a novel accomplishment that can serve as a model for similar situations in other communities.

It is regrettable that the local citizens formally organized in opposition to the incinerator were not supportive of the monitoring programs as members of the voluntary organization described in the article. Their opposition contributed to the recent discontinuance of the voluntary activities. Environmental concerns of local citizens cannot be addressed in the most effective manner without factual environmental data being developed as fully as possible.

Chemicals Affect More than Just Humans

I have just finished reading the Editor's Note by Angela Neville, which was entitled "Facing the Future Armed with Facts" and published in your October 1997 issue. As one who has also read and reviewed Theo Colborn's book, *Our Stolen Future: Are We Threatening Our Fertility, Intelligence and Survival? A Scientific Detective Story*, and as one of the co-authors of the U.S. Environmental Protection Agency Special Report on Endocrine Disruption, I think that you may have overlooked a significant point implicit in both of these documents.

Several organisms in the environment have already been experiencing serious developmental and reproductive effects from chemical exposures resulting from human activities. They have been signaling us for decades, as the environmental sentinels exposed to our chemicals, that there are significant reasons for concern.

It has been our continual narrow focus upon humans, and also upon cancer as "the answer," that has blinded us and resulted in our myopic vision of the impacts of the broad scale environmental contamination that we cause. This narrow focus has, perhaps to our detriment, also limited our vision of and attention to the impacts of chemicals upon organisms in the environment.

One reason that this has happened is because most humans try very hard to

see themselves as separate and "away from" the environment. The reason we need to overcome this handicap is that we are not nearly as separate as we would like to believe. The good news is that this means that we can use what happens in the environment to learn from and, just maybe, prevent problems to us.

The lesson that I get from Colborn's book is that we need to pay significantly closer attention to what the organisms in the environment are telling us now about their exposures. More research on humans is necessary, but not nearly sufficient, to prevent the further "surprises" that are probably already being previewed for us by nature.

I enjoy your publication, but please don't forget that the term "environmental protection" isn't really supposed to be just for and about humans.

Maurice Zeeman, PhD
Department of Pharmacology
and Toxicology
National Institute of Health
Bethesda, MD

Editor's Note: *I agree with you that we should not restrict our focus to the impacts of chemicals on humans. Clearly, we must expand our research efforts to determine the effects of industrial chemicals and pesticides on animal populations and the world's diverse ecosystems.*

For our readers who are not familiar with Our Stolen Future, your reference to "cancer as the answer" refers to Colborn's assertion that cancer has dominated the scientific research programs exploring possible human health effects from chemical contaminants in the environment. She argues that this preoccupation with cancer has blinded us to evidence signaling other dangers and has thwarted investigation of other risks, such as reproductive disorders, that may prove equally important not only to the health of individuals but also to the well-being of society.

WHAT DO YOU THINK?

Letters to the editors should be sent to Environmental Protection, 5151 Beltline Road, Suite 1010, Dallas, Texas 75240, or by e-mail: ablyth@cmpu.net

the **most
current**
Regulatory
Information
you can get on
CD-ROM

Now!

1-2
PRICE
on the NET

Today, there's no other regulatory information system that delivers the critical regulatory and statutory information you need sooner. Each month, every piece of information in RegScan's service is fully codified with changes clearly noted, and everything is up-to-date as of the first day of the month (rare exceptions are noted). That means you'll never get caught using outdated regulations. And with the Internet, you can get more current information than *any* CD-ROM offers...even ours!

- Federal environmental, safety, transportation and FDA laws and regulations
- Federal Register
- State regulations
- International regulations

Now through the end of March 1998, any annual or month-by-month subscriptions to RegScan's full-featured Internet regulatory information system will be 50% off the regular price. **Act now!**
Save thousands!

Special price offer applies only to RegScan's Internet service. CD-ROM delivery service is available at regular cost.

REGSCAN
INCORPORATEDTM

MP

The Power to Perform.

กองสนเทศวิทยาศาสตร์และเทคโนโลยี

Call **1-800-REGSCAN** (1-800-734-7226)
for details or get all the information
you need from our web site at
www.regscan.com.

info@regscan.com • www.regscan.com
605 West Fourth Street • Williamsport • PA 17701

Circle 17 on card.

Cherin Karis has been appointed industrial applications engineer at **Smith & Loveless Inc.**, Lenexa, Kan.

Professional Services Group Inc. (PSG) secured a new contract with the city of Ingleside, Texas, for the operation, maintenance and management of the city's public works department.

SGS International Certification Services Inc. announced its RAB accreditation for AS9000 assessment and registration services.

ECS Underwriting Inc., Exton, Pa., has introduced an insurance program to cover the environmental exposures of privatized water and wastewater treatment facilities.

INFICON® announced the first direct interface GC/MS field-test procedure for on-site analysis of VOC emissions to be included in EPA's list of methods for stationary sources.

Foster Wheeler Environmental Corp. has been selected as the program man-

agement contractor for the \$1.2 billion environmental cleanup of the Rocky Mountain Arsenal, located near Denver, Colo. When completed, the 17,000-acre former chemical munitions and pesticide production site will become one of the nation's largest urban wildlife refuges.

URS Greiner Inc., in joint venture with OHM Remediation Services Corp., has been awarded a \$150 million, 6-year operation and maintenance contract to provide hazardous waste management services at McClellan Air Force Base, Sacramento, Calif., and its satellite locations.

Robert L. Henigar has been named president and chief operating officer of **Berryman & Henigar**, one of Florida's largest multi-disciplinary professional services firms.

Naiad Technologies Inc. has received \$3.1 million in second-round funding from a combination of institutional and private investors. The Portland, Ore.-based company develops and commercializes environmentally friendly technologies designed to reduce toxic liquid waste.

William Pfrang has been appointed **Metcalf & Eddy's** new vice president for the Philippines. M&E provides environmental engineering and consulting services to industry and government clients worldwide.

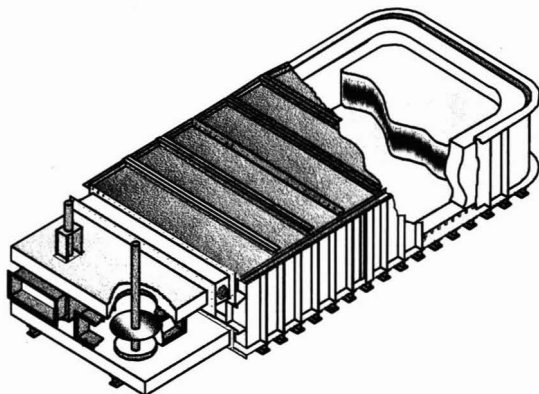
James R. Wiegner has been named vice president of the utility, environmental and industrial power division at **Babcock & Wilcox Power Generation Group**. James S. Kulig has been appointed vice president and general manager, B&W Service. Ronald F. Strunk has rejoined B&W as vice president of purchasing, materials and transportation.

Montgomery Watson Mexico announced the appointment of Dr. Ernesto Espino de la O to director general of the company, a subsidiary of Boulder, Colo.-based **Montgomery Watson Americas**.

Mert VanderLind has been appointed group executive vice president at **Battelle**, with responsibility for governmental business in the areas of transportation, health, human services, EPA, the U.S. Department of Defense and NASA.

OXIDIZER SYSTEMS

The solution to your pollution!



- ▲ **Combu-Changer®** Regenerative Oxidizer
- ▲ **Cor-Pak®** Thermal & Catalytic Oxidizers
- ▲ 99% VOC destruction
- ▲ 95% heat recovery
- ▲ **ABB Air Preheater, Inc.** - a world leader in VOC Control equipment
- ▲ 1100 installations worldwide since 1958
- ▲ An ISO 9001 certified company

ABB

ABB Air Preheater, Inc.
P.O. Box 372, Wellsville, NY 14895
Phone (716) 593-2700
Fax: (716) 593-2721

Web Site: <http://www.pollutionline.com/storefronts/preheater.html>

Zurich Services Corp., a risk management services operation of the Zurich Group and Levine-Fricke-Recon Inc., an environmental consulting firm, is offering its services to chemical manufacturers and users in helping them comply with new nationwide air-quality regulations passed by the U.S. EPA.

Hoover Materials Handling Group Inc. hired Howard Weathersby as logistics manager to help coordinate Hoover's new expanded logistics program.

Robert E. Brown Jr., CIH, CSP, CHMM, has been promoted to director of health, safety and environment for **Dexter Aerospace Materials**, Pittsburgh, Calif.

BetzDearborn Inc., Trevese, Pa., and Project Earth Industries, Atlanta, Ga., a privately held research and development company, have signed a worldwide licensing agreement to develop, commercialize and market newly discovered chemical technologies with a wide range of applications in industrial water, wastewater and process treatment.

Lockwood Greene announced that Jerry Riddell has become the new office manager of its Austin, Texas, office. The company's operations in Austin provide consulting, design and construction services to microelectronics clients.

Charles, Craig and Randall Blue, along with their partner Vinod Sikka, are using technology developed and explored at the U.S. Department of Energy's Oak Ridge National Laboratory to build their new business, **Infrared Technologies Inc.** The company specializes in applying infrared technologies to heat and process metals, plastics and ceramics.

Drew E. Dillingham, PE, has joined **Northern Environmental Technologies Inc.** as lead engineer in the Mequon, Wis., office. Robert K. Sanborn also joined the same office as project manager. Dean A. Sylla has been appointed lead engineer in the company's Green Bay, Wis., office.

Don Wesenberg has been named vice president of engineering and manufacturing for **TerraTherm Environmental Services Inc.** The Houston-based company is an affiliate of Shell Technology Ventures Inc.

Grundfos Pumps Corp. has consolidated distributorship of its environmental pumps from 100 distributors to six. Geotech Environmental Equipment Inc. has been named one of the exclusive distributors.

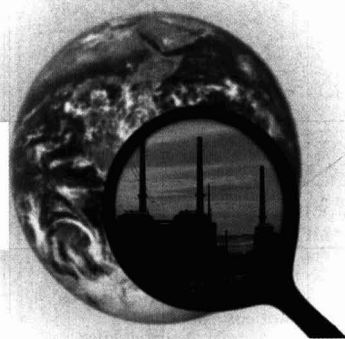
The board of **Oxford Molecular Group PLC** announced that it has entered into an agreement to invest up to approximately \$8 million in Cambridge Drug Discovery Ltd., a new company that will specialize in providing advanced high-throughput screening services.

Futura Coatings Inc. announced it has entered into a sales and distribution relationship with ICI Devco Coatings, a protective coatings manufacturer of industrial epoxy, acrylic, zinc and thin film urethane enamels.

The Eastern and Southern African Mineral Resources Development Centre, based in Dar es Salaam, Tanzania, has supplied ER Mapper to the geological surveys of 13 African countries. ER Mapper is an integrated mapping software produced by **Earth Resource Mapping**.

The *new* ERIIS Facility Profile Report . . .

Because some potential business opportunities require a closer look.



The company financial and business records of your client's new business opportunity have been thoroughly investigated. To the naked eye, it looks like a great deal.

But look closer . . .

What do the EPA and state agencies have to say about the company's environmental compliance record? Penalties for violation of environmental regulations can be astronomical.

The *new* ERIIS Facility Profile Report helps you to help your client by searching government filings and records on any company in the United States. You'll get invaluable, detailed company information

on issues such as:

- Shipments of hazardous materials
- Toxic materials handling practices
- Superfund liability
- Permit and inspection histories
- Civil and criminal enforcement actions

And there's much more! Yet the best part is that all it takes is a PC, the **FREE** ERIISnet software, and **30 seconds!**

Join the thousands of environmental professionals who rely on ERIIS for the fastest and most reliable environmental facility compliance histories in the industry.

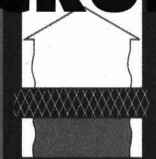
For more information on the **ERIIS Facility Profile Report**, and to receive your **FREE ERIISnet Access Software**, call today at:

1-800-989-0403

Environmental Risk Information & Imaging Services
505 HUNTMAR PARK DRIVE, SUITE 200 • HERNDON, VA 20170 • PHONE: 703-834-6000



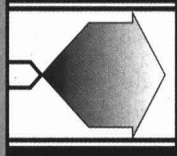
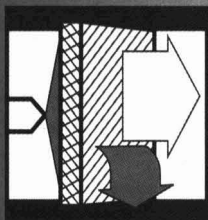
MYSTAIRE® SCRUBBERS



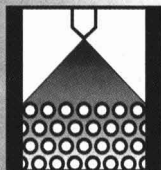
ACTIVATED CARBON



VENTURI



SONIMIST® CHAMBER



PACKED BED

WATERWEB® MESH

The Latest Technology.
The Best Products.
The Newest Answers.

MYSTAIRE® Scrubber Technology

- **WATERWEB® MESH** – Proven, proprietary compressed mesh for highly turbulent, efficient scrubbing pathway
- **EDUCTOR VENTURI** – Turbulent throat area facilitates contaminant absorption into scrubbing liquid and removal of particulates
- **PACKED BED** – High efficiency tower packings to abate gaseous contaminants
- **SONIMIST® SPRAY CHAMBER** – Ultrasonic mist entrains particulates or hydrolyzes vapors and cools gas streams
- **ACTIVATED CARBON** – Standard and impregnated to adsorb VOC's and odorous gases

Engineering Assistance

Our experienced engineering staff thoroughly analyzes every scrubbing situation and recommends the best scrubbing system, or best combination of scrubbing methods, to solve the contamination problem. Call today for engineering assistance or more information.



MISONIX INCORPORATED

"For over 35 years you've known us as Heat Systems"
1938 New Highway, Farmingdale, New York 11735
FAX: 516-694-9412 • Telex: 825339
For application assistance and information call:
800-645-9846 • In NY 516-694-9555

in print *Compiled by Kristie Guillotte*

Check out some of EP's favorite catalogs, brochures, books and reports available this month.

MOTHER™ OIL REMEDIATION Products is a four-page color



brochure listing patented chemistry that will instantly render oils, hydrophobic and viscoelastic. Pictures and descriptions of Superbuoyant Pad™, Superbuoyant RD™, Superbuoyant Roll™, Versipad™, Sheen Devil™, Terraguard™, Viscochips™ and Fullcycle™ are included. Oil bonds to the products instantly, preventing sinking, emulsification, weathering and sheen and tarball formation. **Mother Oil.** Circle 180 on card.

THE HAZMAT PRO® CATALOG details spill containment pro-

THE HAZMAT PRO®

COMPLETE PROGRAM FOR THE STORAGE OF HAZARDOUS MATERIALS



ducts, gas cylinder storage cabinets and drum handling equipment. It provides technical specifications, regulatory requirements and a selection of storage solutions. It covers single drum pallets, multi-drum warehouse complexes for the storage of thousands of drums, IBCs and smaller containers. **P&D Solutions Corp.** Circle 181 on card.

DATATEST'S BROCHURE examines the Model 201 electrostatic dust monitor. The unit has an intrinsically safe 5-inch stainless steel probe for temperatures up to 1,550 degrees Fahrenheit and a NEMA 4 control box. It can be remotely mounted up to 1,000 feet away. **Datatest.** Circle 182 on card.

PRECISION SPRAY NOZZLES and Accessories Catalog in-



Precision Spray Nozzles and Accessories



cludes new products, a complete section for primary metals producers and additional technical reference material. The color catalog emphasizes value, precision, reliability and quick delivery. **Lechler Inc.** Circle 183 on card.

BRS RESILIENT SEATED Butterfly Valves highlights a line of AWWA-compliant butterfly valves in sizes from 3 inches to 120 inches. All valves included in the 14 page brochure meet or exceed the requirements of AWWA C504. Also included are a variety of manual, electric and pneumatic actuators.

DeZurik.

Circle 184 on card.

BIG NEWS IN WASTEWATER Treatment brochure describes the Kaldness® Moving Bed Biofilm Reactor System (MBBR). The brochure explains how the MBBR handles loads of 50 kilogram COD/m³d or more, cuts hydraulic retention time by as

much as 80 percent and occupies only 20 percent of the floor space. **Purac Engineering Inc.**
Circle 185 on card.

A UNIQUE SEALING Solution, a 12-page color catalog, shows how stock or custom-designed strip brush can be used for many industrial applications. It is divided into 10 sections: Why Brush, How Brush is Used, Specialty Brushes, Selecting the Right Brush, Stocked Specialty Brushes, Nylon Stock Brush, Aluminum Holders, Metal Filaments and Channels, Custom Brush and For More Information. **Sealeze Corp.**
Circle 186 on card.

FOR LEAK AND SPILL Control is full of products, tips and solutions for all types of industrial and maintenance spills. Features include the Storm Drain Protector™, epoxy putty, Versa Guard™, drum handling equipment and secondary containment. **Andax Environmental Corp.**
Circle 187 on card.

HAZ-VAULT™ HAZARDOUS Materials Storage Lockers is a two-page color flyer describing the hazmat locker line. The flyer describes how the lockers are prefabricated weatherproof structures that offer vault-like safety, security, segregation and secondary containment for hazardous materials, chemicals and waste. It also outlines the options for fireproofing and non-combustible construction. **Haz-Stor.**
Circle 188 on card.

ANALYTICAL REFERENCE Materials Catalog provides a complete listing of organic environmental reference materials for CLP and EPA 400, 500, 600 and 800 series methods. Within the 108 pages, ASTM organic and petrochemical stan-

dards, international reference materials, FAMES, USP test mixtures, pharmaceuticals, inorganic calibration standards, TO-14 air monitoring standards and column evaluation mixtures are also highlighted. **Restek Corp.**
Circle 189 on card.

ANALYTICAL REAGENTS brochure features the practices, philosophies and performance of Mallinckrodt AR® analytical reagents. Safe, space-saving packaging are also highlighted in the brochure. **Mallinckrodt.**
Circle 190 on card.

FLOW COMPONENTS AND Controls for Gases and Liquids contains information on Matheson's complete line of flowmeters and includes a "Product Line Overview" for easy access to information on the extensive line of variable area flow control products for both liquids and gases. A description of the Tube Cube®, multi-tube units, mixers and proportioners and the flowmeter kit are included. **Matheson Instrument Group.**
Circle 191 on card.

ORGANIC CHEMICAL Reference Standards Catalog is 250 pages of technical information. It includes over 1,000 analytical standards for the environmental, petrochemical, industrial and research fields. **Accu-Standard Inc.**
Circle 192 on card.

THE ISO 14001 Implementation Guide: Creating an Integrated Management System, written by Suzan L. Jackson, contains step-by-step instructions for implementing an effective and cohesive EMS that will help cut costs, increase efficiency and focus energies. **John Wiley & Sons Inc.**
Circle 193 on card.

Specify HEATED HOSES ANY WAY you want!

In 1968, we developed our first electrically heated hoses. Today, with the expertise to be innovative, the volume to be responsive and the confidence born of years as leaders of the industry, we say, "You tell us your needs, we'll build the hose to meet them!"

INDIVIDUALLY... in sizes up to 4" I.D. and in any length; for temperatures up to 600°F. Available in a wide choice of materials and construction.

MODULAR... Hydraulically in series, electrically in parallel.

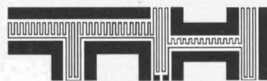


HAZARDOUS LOCATIONS

Electrically heated hose and tubing approved for Class 1, Div. 2, Group C and D requirements.

BULK FORM, in low and high temperature designs, lengths of 100 ft. or more.

Parallel circuitry allows you to cut exact lengths as needed.



**TECHNICAL HEATERS, INC.
THERMOLAB**

710 Jessie St., San Fernando, CA 91340
Phone: 818/365-9435 Fax: 818/361-2788
800/394-9435

E-Mail: sales@techheat.com

A WATERSHED GETS A FACELIFT

This unique mitigation project next to an impacted watershed includes custom-designed wetlands and stream enhancements

By Roger Zyma, Gary Von Stefina and Deborah E. Lynch

A southeastern Pennsylvania watershed improvement program compensated for the developmental impacts of a landfill expansion by creating wetlands and installing stream enhancements in an adjacent local watershed. The landfill expansion involved the permanent taking of watercourses and wetlands. The expansion permit application demonstrated to

regulators that the wetland and watercourse work could not be avoided or replaced in the same local watershed. Implementing the program in an adjacent watershed is unusual because most mitigation programs occur within the same watershed as the impacted area. Another unique aspect of the program included improvement to rather than replacement of a stream.

Successful implementation of the watershed improvement program required early and coordinated regulatory agency involvement and a well-researched technical program to design, permit and construct the wetlands and stream structures.

Regulatory Coordination

Early in the project, contact and rapport were established with the various regulatory agencies responsible for approving and permitting the project. Through this process, special circumstances concerning mitigation of the stream impacts and the wetlands were explained, analyzed and modified as appropriate prior to acceptance.

An additional benefit of the coordinated regulatory program was the cooperative effort by agencies with similar functions. Meetings were scheduled with these agencies at the same time to avoid redundancy. For example, the Pennsylvania Department of Environmental Protection and the U. S. Army Corps of Engineers both have responsibilities related to wetland construction. Coordination with interested agencies such as



The bank stabilization process took several steps, beginning with erosion reduction.

Photos courtesy of STV Inc.



Existing exposed soils and bank required crib stabilization.



Stabilized stream bank backfilled and seeded.



Finished cribbing with fish overhang using overhang of bottom log structure.

the Pennsylvania Fish and Boat Commission, U.S. Fish and Wildlife Service, local conservation district offices and township officials resulted in unified acceptance of the project.

Landfill Expansion Setting

The landfill expansion is located within an unnamed tributary watershed that covers approximately 125 acres. The expansion itself covers less than 50 percent of the watershed.

Prior to expansion, the land was primarily deciduous forest. Three ephemeral/intermittent streams and two small wetlands were located in the expansion area. Totalling approximately 3,400 feet in length, the streams did not flow continually and were unable to support fish and other aquatic populations.

The wetlands filled by the landfill expansion consisted of approximately one half acre of palustrine forested (PFO) and palustrine scrub shrub (PSS) habitat that had low water levels and provided low-quality wildlife vegetation. These wetlands provided marginal habitat to wildlife and insufficient habitat to wetland-dependent species.

Adjacent Mitigation Watershed

Studies to determine an appropriate location for the watershed improvement program evaluated slope, soil, ground and surface water, construction activities and potential for future landfill conflicts.

A location approximately one mile from the expansion was selected.

The chosen site, located in an adjacent local watershed, contains a perennial stream and an existing wetland system situated adjacent to the stream. The

**The new wetland
provides a degree
of flood control for the
adjacent stream
and a place for sediment
to drop, supplying
nutrient and
groundwater recharge.**

total drainage area within the selected watershed is two square miles, or 1,300 acres. Land use within the area consists mostly of farmland and forest land. Hemlock and black walnut are the primary tree species in the upstream portion of the project area, while white ash and sycamore predominate in the downstream portion. White-tailed deer, red fox, raccoons and red-tailed hawks are the dominant wildlife in the watershed. The watershed is underlain by the

Brunswick formation, which is a red-dish-brown shale, mudstone or siltstone and silt loam.

Existing Stream Conditions

The area selected for the watershed improvement program contained a perennial stream, part of which was bordered by existing wetlands. The stream enhancements were suggested to improve existing aquatic habitat conditions, physical stream characteristics and low-flow conditions. Physical conditions included bank erosion, insufficient stream depth during low-flow conditions and loss of water-holding capacity to sustain fish populations during low-flow conditions.

High-flow periods during storm events caused significant erosion against the silt loam stream banks. The erosion created unstable banks, contributed to bank destruction and affected aquatic habitats. The increased sediment load resulting from bank erosion degraded overall stream quality and impacted macroinvertebrate habitats. It was deposited in a downstream dam and trout-stocked receiving stream that local residents used for recreation.

Stream Enhancement Program

The program to correct these conditions included constructing and placing 36 custom-designed structures throughout 8,500 feet of the stream. These structures were primarily built of logs,

A Watershed Gets a Facelift



Typical condition of stream during low flow.

rock and other natural materials. Ten bank cribbing structures, totaling approximately 1,000 feet, were installed to protect and stabilize the eroded banks. Ten single-wing deflectors were installed to guide and concentrate flow and to create meandering within the stream. To redirect and increase the depth of flow, the construction team built one channel block and two channel constrictors. Seven K-dams were

low-log imitators in the downstream dam to support catfish spawning. Also within the dam, the project team added three tree snags to provide cover for fish. Trees and shrubs were planted adjacent to the stream to block sunlight penetration to the stream, provide shade and lower the water temperature during summer low-flow months. The lower water temperatures improve dissolved oxygen levels.



Channel constrictor installed to concentrate and direct flow through mechanically created deep pool.

placed to provide pools upstream of the structures, collect organic matter and create a waterfall effect to improve dissolved oxygen levels within the stream. The resulting continuous and deeper flow in the main channel improved the physical characteristics of the stream and the habitats.

To enhance habitat adjacent to the stream, several additional structures were added. The team added three hol-



Single wing deflectors concentrate and direct flow.

Following completion of the stream enhancements, bird, bat and waterfowl nesting platforms were placed adjacent to the stream and in the surrounding wetlands to enhance and maintain nearby higher-quality terrestrial wildlife habitats.

Wetland Creation

The studies performed to determine the optimal location for a created replacement wetland indicated that an area in

the same watershed as the stream enhancement program was the best location for a constructed wetland. This site is adjacent to an existing palustrine-emergent (PEM) wetland and located between the convergence of two stream branches. Soil and hydrologic studies also suggested that this would be an optimal area. During summer, when the groundwater level was low, free water was still available in the soil. Also, mottling in the upper soil layers indicated a suitable wetland site.

As previously noted, the filled wetlands consisted of approximately one half acre of PFO and PSS wetland habitat. In accordance with state and federal guidelines, the filled wetlands were replaced at a 2-to-1 creation to mitigation ratio with a wetland of similar value and function.

The created one-acre wetland consists of PFO, PSS and PEM habitats. The PFO and PSS section incorporates red maple, silky dogwood, buttonbush and arrowwood, which occur in other wetlands in the vicinity. The PEM plants in the created wetland are similar to the vegetation in the adjacent natural PEM wetland, namely soft rush, woolgrass, rice cutgrass and others. The adjacent wetland contributes natural seeding and species diversity to the created wetland. The new wetland pro-



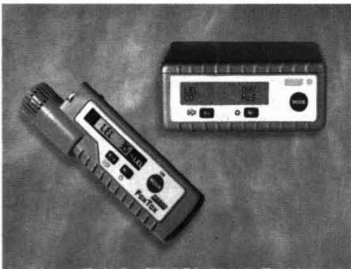
Stream meander was created by installing deflectors and constrictors in series.

vides a degree of flood control for the adjacent stream and a place for sediment to drop, supplying nutrient and groundwater recharge.

Construction Issues

Several construction techniques were implemented to maximize the beneficial results of the project and minimize impact to the environment. For example, all custom-built structures were made

FoxTox Personal Gas Monitors



- Smart and compact
- Single-gas models monitor oxygen, toxic gas, and combustible gas
- Multi-gas model monitors up to 4 gases simultaneously
- Small, lightweight designs
- Easy to handle and use

For more information, circle
22

TVA 1000 Dual-Detector Toxic Vapor Analyzer



- Dual detection
- General hydrocarbon screening with FID
- Inorganic gas screening with PID
- Simple to use, easy to calibrate
- Onboard datalogging
- Intrinsically safe

For more information, circle
89

MIRAN SapphiRe Ambient Air Analyzer



- Factory-calibrated for over 100 gases
- Up to 5 gases measured simultaneously
- Choose from 6 models
- Fully expandable system
- Lightweight and portable
- Highly sensitive and selective

For more information, circle
140

Arctic Fox Infrared Refrigerant Detector



- Advanced refrigerant detection system
- Versatile IR optical analyzer
- Extraordinary stability
- High detection sensitivity
- One system can monitor up to 21 refrigerants and 32 sample points

For more information, circle
82

Infracal TPH Analyzer



- Displays measurements in ppm or mg/l
- Lightweight, portable
- Supports both cuvettes and 3M IR Cards
- Highly accurate
- Wide range of detection levels, from 1 to 10,000 ppm or mg/l

For more information, circle
83

When danger's in the air, rely on Foxboro instruments.



Start with proven technology.

Your best defense against hazardous chemicals is quick, accurate detection. Time after time, Foxboro instruments deliver it. That's why government and industry alike have relied on Foxboro to create the standards for the environmental world.

Take on the most challenging tasks.

Our technology has demonstrated its superiority in critical applications from indoor air quality monitoring to fugitive emissions detection to hazardous site assessment. No other instruments offer better performance for productivity and worker safety.

Rely on the most dependable source.

When it comes to environmental monitoring, you'll detect a difference. Unequaled performance, reliability, and support make Foxboro the most trusted name around.

So when danger threatens, call 1-888-FOXBORO today.

**Setting the standards
in environmental monitoring.**

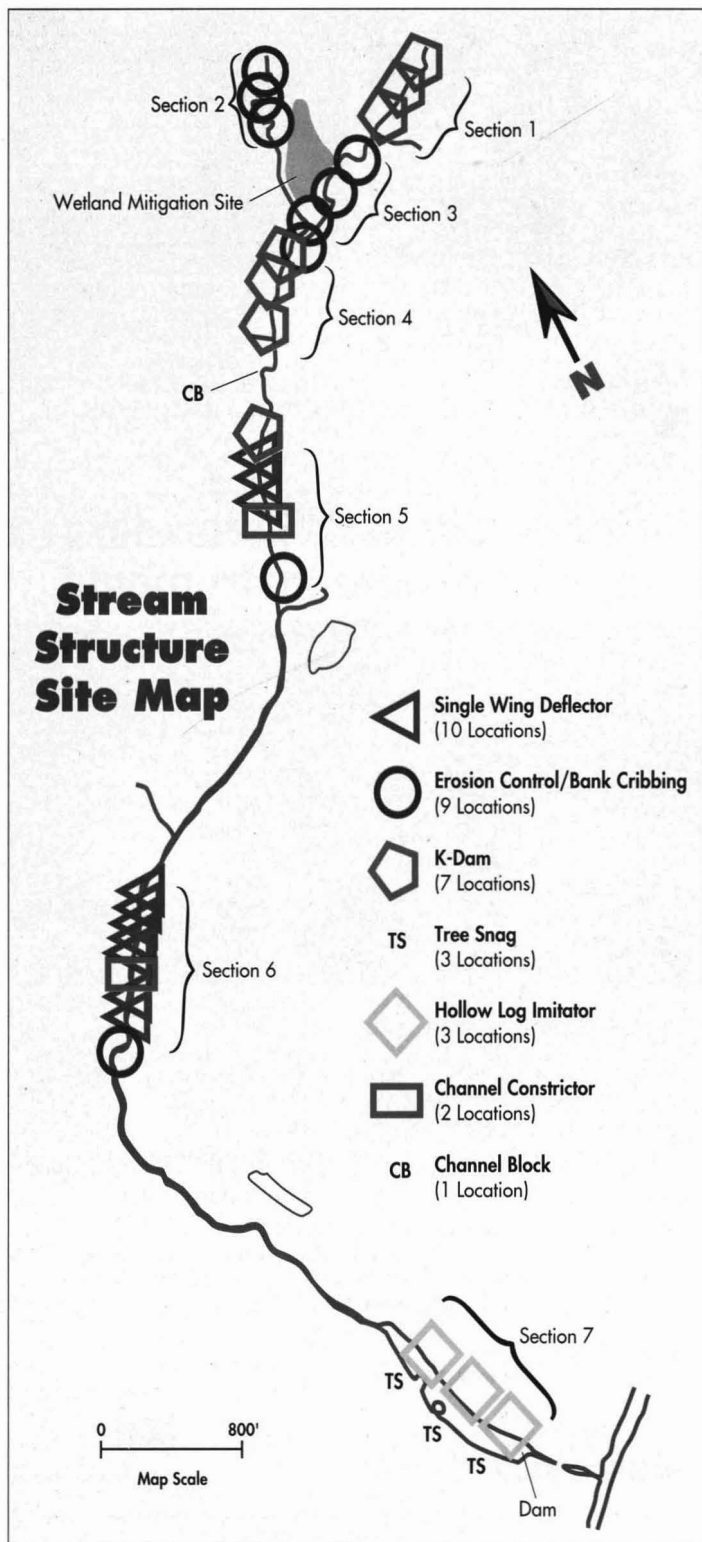
FOXBORO®



A Siebe Group Company

FOXBORO, FoxTox, TVA 1000, MIRAN, SapphiRe, and Arctic Fox are trademarks of The Foxboro Company.
SIEBE is a registered trademark of Siebe plc.
Infracal is a trademark of Wilks Enterprise, Inc.
3M is the registered trademark of 3M.

A Watershed Gets a Facelift



from natural logs rather than treated lumber. To facilitate the water-holding capacity of ponds, tight seals were achieved using a filter fabric installed behind the structure along with a bentonite mat. The bentonite mat, designed to swell when wet, sealed the structures to minimize water leakage between logs.

To minimize bank disturbance, the project team accessed each construction site via existing trails. Work within the stream was limited and completed as quickly as possible. The bedrock stream channel was used as an access road for parts of the project. Rubber-wheeled vehicles and flat-tracked versus cleat-type equipment reduced the impact to the stream and bank. All of the work was installed starting at the most upstream areas and proceeding downstream to avoid sediment load to the constructed stream enhancements.

The wetland creation was staged with a winter excavation, then a spring and fall planting. The project team ensured hydrology during one of the driest seasons in many years by supplemental watering to support the plants through this period.

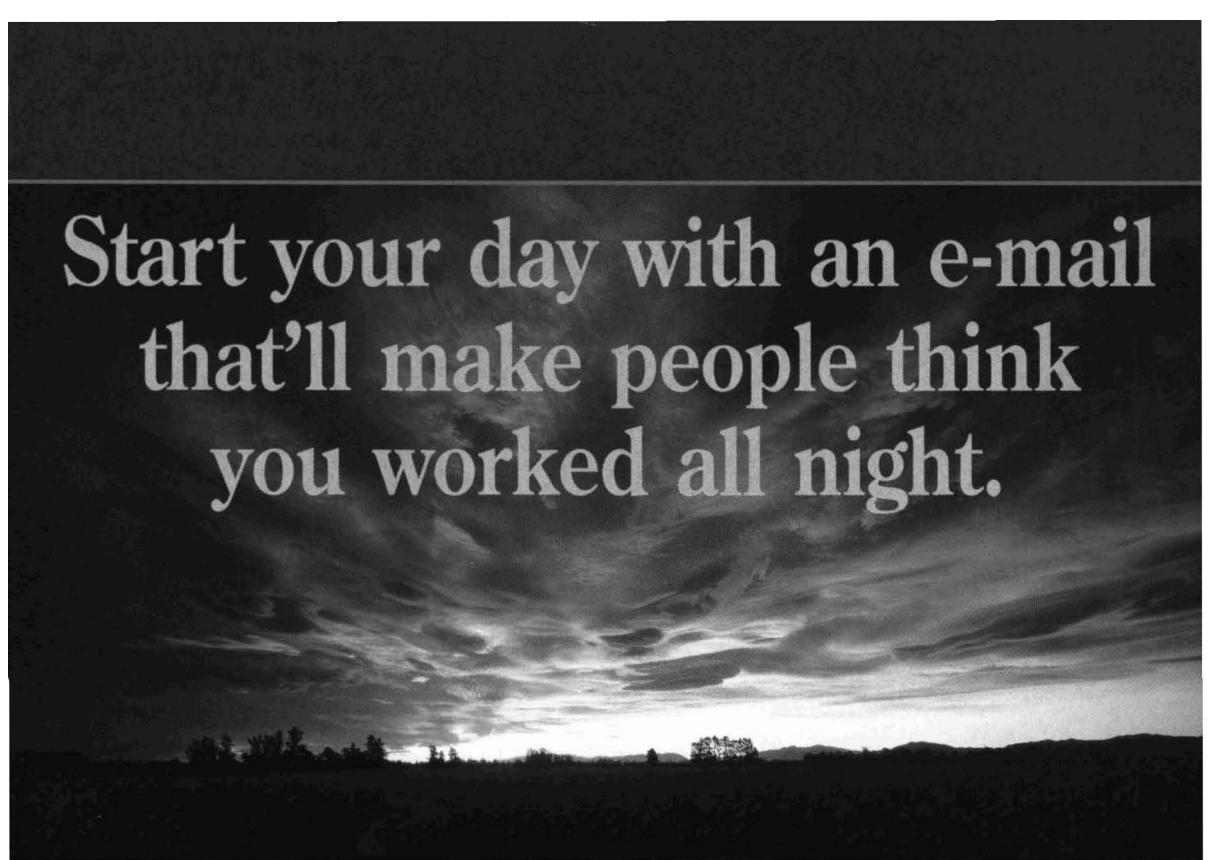
Project Evaluation

The stream enhancement structures and wetland mitigation site are inconspicuously placed and appear natural in the landscape. Approximately 1,000 linear feet of erosion control features were installed. Ponded backwaters were created in areas that did not exist previously and 1,000 linear feet of meanders were created from channel constrictors and single-wing deflectors. Planted materials and volunteerism of native wetland species from adjacent areas in the created wetland site have met site and regulatory agency expectations less than one year after construction. Monitoring of the program will continue over the next five years.

The wetland and stream improvement program is part of a master plan to use buffer properties adjacent to landfills to benefit the local community with recreational and outdoor activities. **EP**

Roger Zyma is a senior vice president of STV Environmental and STV Inc. Gary von Stetina is a senior environmental engineer with Waste Management Disposal Services of Pennsylvania. Deborah E. Lynch is a wildlife biologist with STV Inc.

For more information, circle 194 on card.



Start your day with an e-mail that'll make people think you worked all night.

Tuesday. 8:46 AM. Just enough time before the staff meeting to get coffee and read your E-Mail Summary of *BNA's Daily Environment Reporter*. During the meeting you turn heads with your insights about regulatory developments not even mentioned in the morning paper. And that's just one way BNA information transforms your workday.

Because only BNA environment and safety information services offer a total system:

- up-to-date news reports,
- comprehensive primary source materials,
- and expert analysis and guidance.

You'll move seamlessly between sources, thanks to intelligent linking organized by BNA's expert editors. Choose the formats that fit the way you work — CD-ROM, the Web, print, or e-mail. And maximize your benefits with BNA's free training and support.

You know you can trust BNA information. Now see what happens when you turn on the productivity power of a totally integrated BNA information and technology solution.

To try *BNA's Daily Environment Reporter* E-Mail Summaries FREE for 4 weeks, e-mail your request to RISKFREE@bna.com and reference code ESXX581X3. Or, if you'd like to receive more information on our full line of environment and safety services, call us TOLL-FREE at 1-800-372-1033.

**BNA**

THE BUREAU OF NATIONAL AFFAIRS, INC. | Marking 50 years of Employee Ownership.

Visit our website at <http://www.bna.com/> | 1231 25th Street, NW, Washington, DC 20037
Circle 23 on card.



NEGOTIATING OPERATIONAL FLEXIBILITY INTO YOUR TITLE V PERMIT

*Take steps now to modify
your air permit application to save time
and money in years to come*

By Joseph Curreri

Title V of the 1990 Clean Air Act Amendments has been a top compliance priority for industry in the 1990s. Many companies have already submitted their Title V permit applications. Unfortunately, in the rush to meet regulatory deadlines and secure "application shields," the all-important long-term goal of preserving operational flexibility may have been overlooked. The result can be overly stringent operating limits that erode profits and hinder growth and development for years to come.

However, it is not too late to negotiate

operational flexibility into your permit, whether or not you have submitted your Title V application. Permit conditions do not become final until they have undergone federal and public scrutiny. Most applications are either under review by state agencies or awaiting review. In addition, states have three years to issue final permits once the U.S. Environmental Protection Agency has approved their Title V programs. That still leaves most companies time to submit strategic supplements or addenda.

The Title V application can be used to

achieve advanced New Source Review (NSR). The Title V application can also be used to modify existing permits, streamline overlapping requirements and reduce or eliminate monitoring, record-keeping and reporting requirements. The bottom line is substantial cost savings and increased operational flexibility. However, the key to achieving these objectives is strategic and aggressive use of two EPA guidance documents that have been greatly underutilized by state agencies and the regulated community. These documents can be powerful tools for obtaining a permit you can live with.

Regulatory Background

The Title V permitting program combines all of the Clean Air Act requirements for a facility into a single document. Because of its vast scope and complexity, many managers become ensnared in the details of the permit application process and overlook important long-term goals. Since Title V became law, EPA has published two White Papers that can be used to help agency personnel and the regulated community simplify the permitting process. By seizing opportunities brought to light in these documents, industry has a second chance to build critical, long-term goals into Title V permits, and managers can focus on reducing operating restrictions, monitoring and recordkeeping costs and reporting requirements.

The "Streamlined Development of Part 70 Permit Applications" (*White Paper 1*, 1995) simplifies the permitting process under 40 *Code of Federal Regulations* (CFR) Part 70 by eliminating many technical requirements and many of the details originally associated with the permit application. "Improved Implementation of the Part 70 Operating Permits Program" (*White Paper 2*, 1996) is also good for industry, primarily because it allows companies to streamline multiple or overlapping air quality requirements.

By reviewing your Title V application with an eye toward incorporating elements of EPA's guidance, your company can still greatly reduce its compliance obligations. Even if your permit application has already been submitted to the state, you may submit revisions as addenda to the original document.

State agencies and applicants alike, in the haste to meet program details and deadlines, have for the most part overlooked EPA's guidance. It is important to remember that the burden is clearly on the regu-

Bringing A World Of Experience To Science And Engineering Consulting.



Golder Associates has a track record that covers a lot of territory – both in terms of geography and diversity. We have built a total package of capabilities by completing over 100,000 civil and geotechnical engineering, environmental, mining, and waste management projects for 25,000 clients in more than 130 countries. Naturally, we're proud of all we've done. But what makes us even prouder (and our clients even happier) is how we've done it – within cost and schedule and with no surprises. Our scope and performance make us well equipped for the challenges faced by our focus sectors in the United States: **Government, Manufacturing, Mining, Power, Solid Waste, and Transportation**. Sure, the needs vary dramatically from one to the other. But when you have a world of experience in your grasp, the right solution is always close at hand.



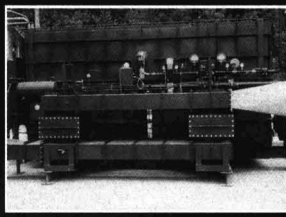
Golder Associates Inc., 3730 Chamblee Tucker Road, Atlanta, GA 30341, U.S.A., 800-275-3281
Offices worldwide, including 25 throughout the United States.

www.golder.com

Circle 24 on card.



RETOX™ REGENERATIVE AND CATALYTIC OXIDIZER VOC ABATEMENT SYSTEMS



POINT SOURCE APPLICATIONS:

- Flexographic Printing
- Flexible Packaging/Screen Printing
- Soil Vapor Extraction/Air Stripping
- Web Converting/Coating/Adhesives
- Web Offset Printing/Packaging
- Chemical Processing/Expanded Foam
- Paint Finishing/Varnishing/Spray Coating
- Phenolic Composites/Treating
- Laminating/Textiles/Fabrics
- Semiconductor/Circuit Boards

PRODUCT/SERVICES

- Retox™ Twin Bed Regenerative Thermal Oxidizers
- Katox Catalytic Oxidizers
- Thermox Thermal Oxidizers
- Shell & Tube Heat Exchangers
- PLC Controls
- Single Source Turnkey Installation
- Shop Assembled/Tested Systems
- Lease Finance Options
- TEL-MAX Telemetry Systems
- Over 300 Systems Installed

**TURNKEY OXIDIZER
SYSTEMS FROM
100+ SCFM FLOWRATES**

*Call today for
a FREE Catalog*

Corporate Office
1175 North Van Horne Way
Anaheim, CA 92806-2506
Tel: 714-632-9801
Fax: 714-632-9812
E-mail: adwestusa@ioc.net
Website: adwestusa.com



East Coast Office
151 Trapping Brook Rd.
Wellsville, NY 14895-9465
Tel: (716) 593-1405
FAX: (716) 593-6614
E-Mail: adwestny@eznet.net

Negotiating Operational Flexibility into Your Title V Permit

lated community, not agency personnel, to take advantage of these guidance documents. It is also important to work with state regulators to ensure that they understand and accept guidance-related modifications to your Title V permit application.

Enhanced Operational Flexibility

If properly prepared, your permit application can help substantially increase the operational flexibility of your facility. It can be used to revise the terms of your existing air quality permits, avoid future NSR by securing regulatory approval today for new construction or anticipate other "alternative scenarios" planned for tomorrow.

Revising Existing Permit Conditions

The Title V permit review and approval process fulfills the most stringent levels of state, federal and public review necessary for permit revisions. That means that you can use your Title V application to propose changes to any air quality requirements, existing or new, that govern your operations. By incorporating your proposed permit changes into your Title V application now, you may eliminate redundant NSR and other costly permitting efforts in the future.

White Paper 1 allows Title V permit applicants to propose changes to terms or conditions of existing permits. You

ready submitted an application to the state, you can still submit an addendum to remove or clarify any references to non-federal requirements before your application reaches EPA for review.

Avoiding NSR and Approval Process

Building a new facility or modifying an existing one requires a costly permitting effort. To secure a permit-to-construct, new emission sources must undergo a rigorous NSR or Prevention of Significant Deterioration (PSD) review and approval process. The stringent state and federal agency review, public notification and comment period can be excessively time-consuming, leading to construction delays and lost business and revenue opportunities.

Because the Title V review process is at least as stringent, applicants may leverage their Title V permit application to apply for an advanced NSR of planned future modifications. New construction can be incorporated into the permit as an "alternative operating scenario." Once the permit to construct is approved simultaneously under Title V, construction can begin at some future date without any additional review. The applicant need only notify the state once the new facility is up and running.

According to commencement-and-continuation-of-construction requirements, work on a new facility must begin within

Money-Saving "Title V White Paper Strategies" for Industry

- Propose changes to the terms and conditions of existing permits, including elimination of environmentally insignificant requirements.
- Streamline overlapping requirements (e.g., BACT, NSPS, SIP) by subsuming the less stringent requirements into the most stringent, or proposing a "hybrid" requirement.
- Apply for simultaneous "advance" NSR of planned future modifications, thus avoiding a lengthy peer review and approval process prior to construction.

can also mitigate monitoring, record-keeping and reporting requirements, as well as eliminate obsolete or extraneous permit restrictions. In the permit application crunch, you may not have clearly differentiated federal applicable requirements from other, state-only, requirements. As a result, once the permit is issued, you may have inadvertently imposed new federally enforceable requirements on your facility.

If you did not make the proper distinctions in your original application, now is the time to do so. If you have al-

18 months of permit issuance. However, applicants may apply for a 12-month extension. Typically, the permit holder will have from 18 to 30 months after the permit is final to begin construction.

Streamlining Air Quality Requirements

Companies can also save time and money by taking advantage of *White Paper 2* to streamline multiple or overlapping air quality requirements in either of two ways:

- Identical emission units with identical applicable requirements at a facility

can be grouped together for listing emissions, applicable requirements and monitoring, recordkeeping and reporting requirements.

- A unit subject to overlapping requirements need only comply with the most stringent of these, or with a "hybrid" requirement.


The first type of streamlining allows companies to propose a single record-keeping, reporting and monitoring requirement for multiple emission units.

Since Title V became law, EPA has published two White Papers that can be used to help agency personnel and the regulated community simplify the permitting process.

Consider, for example, boilers at the same facility that are subject to the same applicable requirements. The guidance states that applicants do not need to submit a separate record for each boiler, or test and develop separate emissions factors. All units can be grouped under one requirement and identified as a single monitoring parameter to save time, money and effort on reporting, record-keeping and monitoring.

Companies may also dramatically reduce compliance costs for any unit subject to overlapping requirements. For example, installation of a new boiler is typically subject to PSD review, Best Available Control Technology (BACT), New Source Performance Standards (NSPS) and State Implementation Plan (SIP) requirements governing sulfur dioxide content and particulate emissions. Any boiler meeting BACT, the most stringent of the requirements, would automatically be in compliance with the other mandates.

In addition, EPA guidance further indicates that a facility can meet compliance obligations by subsuming the less stringent requirements into the most stringent requirement. Where different applicable requirements overlap and it is difficult to determine which is the most



A little out of date with EPA compliance?

Irritating the EPA is not a happy thought. With MIRS™ the worry over deadlines can be reduced considerably. Easy-to-use and accurate, MIRS™ is the first choice of hundreds of environmental managers throughout the country. Shouldn't you learn more about MIRS™ before *your* next deadline?

*Easy-to-use environmental management software.
Call (313) 973-3000.*

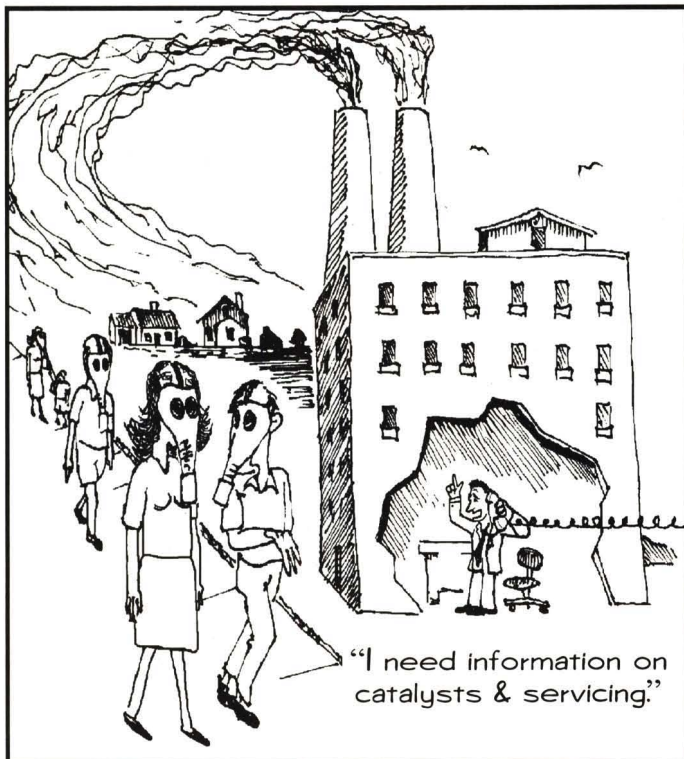
MIRS™

**MATERIAL INVENTORY
REPORT SYSTEM**

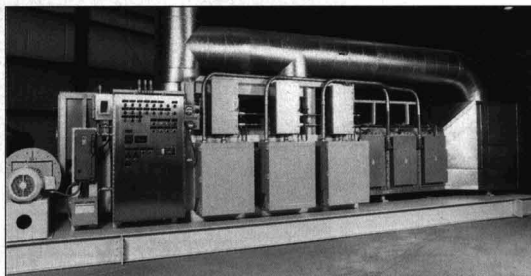
A V SYSTEMS, INC.

www.mich.com/~avsys/mirs.htm

Circle 26 on card.



Circle 27 on card.



Regenerative Thermal/Catalytic Oxidizers

- ▼ Capable of > 99.9% destruction efficiency
- ▼ Up to 70% preheat efficiency
- ▼ Used for control of VOC's, HAP's from a wide range of industrial process

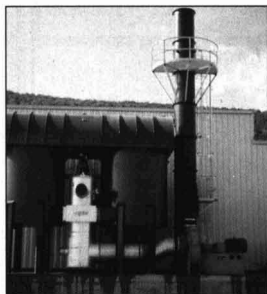
Circle 1 on card.



Control of Chlorinated Volatile Organic Compounds (CVOC's)

- ▼ Complete modular systems includes caustic scrubbers
- ▼ Used for control of tank vents or SVE sites
- ▼ Skid mounted or trailer mounted
- ▼ Purchase, lease or rent

Circle 5 on card.



Regenerative Thermal Oxidizer (RTO) & Regenerative Catalytic Oxidizer (RCO)

- CYCLE THERM, Inc., a Division of AES
- ▼ High heat recovery > 95%
 - ▼ Destruction efficiency > 99%
 - ▼ Patented mechanical valve drive
 - ▼ Turn key systems

Circle 2 on card.

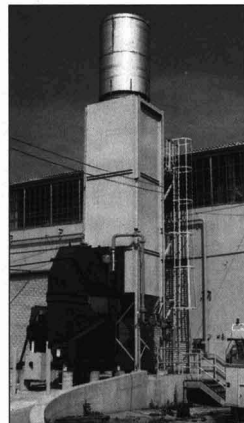


One shoe doesn't fit every foot . . . and one oxidizer technology is not right for every process.

That is why at Advanced Environmental Systems, Inc. we evaluate your process and project objectives first. Then we work with you to select the technology that best fits your specific project needs.

Give us a call!

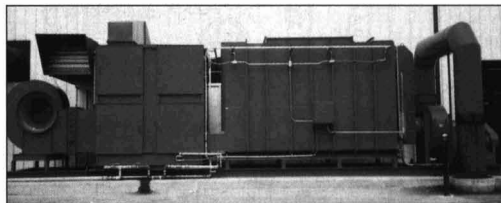
We look forward to helping you make sure your project gets off on the right foot!



Enclosed Oxidizing Flares (EOF)

- ▼ No visible flame
- ▼ Burners provide low NOX, high turndown
- ▼ Used on landfill gas, waste treatment facilities and fuel unloading stations

Circle 3 on card.



Air-Clear™ Fiberbed Mist Collectors

- ▼ In addition to our oxidizers, AES offers fiberbed mist collectors
- ▼ Preferred technology for submicron (visible smoke and haze) mist and fume collection
- ▼ > 99% efficiency, inherently low maintenance requirement
- ▼ Ideal for controlling emissions from metalworking, asphalt and textile operations

Circle 4 on card.

EXPERIENCE

Whether it is pill coating or fabric coating, tank vents or tank cleaning, silicone chips or potato chips, our experience with controlling a wide variety of industrial air pollutants ensures a high level of success on your project.

PERFORMANCE

Advanced Environmental Systems, Inc.'s oxidizers have been tested to show destruction efficiencies of greater than 99.99%! Our Regenerative Oxidizer has a heat transfer efficiency of > 96%. When it comes down to it, there is no room for compromise with performance.

FLEXIBILITY

Advanced Environmental Systems, Inc. offers an extensive range of services. Remote diagnostics, long term maintenance agreements, rental or lease purchase options, in addition, a variety of other services and options are available to help you meet your project objectives.



**ADVANCED
ENVIRONMENTAL
SYSTEMS**

2440 Oldfield Point Road
Elkton, MD 21921-6712

Your Title V Permit

Glossary of Terms

New Source Review: The federal rules under 40 CFR Parts 51 and 52, which require new major sources or modifications to secure preconstruction permits ensuring compliance with pertinent Clean Air Act provisions

PSD: Prevention of significant deterioration provisions encompassing New Source Review requirements for sources located in areas that are in compliance with the National Ambient Air Quality Standards (NAAQS)

NSR: The term typically refers to provisions encompassing New Source Review requirements for sources located in areas that are not in compliance with the NAAQS.

NSPS: New Source Performance Standards are technology-based standards under 40 CFR Part 60 applicable to emissions from specific categories of sources.

SIP: The State Implementation Plan encompasses all of a state's regulations implementing the EPA regulations issued under the Clean Air Act.

BACT: Best Available Control Technology is required by PSD regulations and is determined on a case by case basis with the requirement that it must be at least as stringent as an applicable NSPS.

stringent, applicants may synthesize the requirements into a single hybrid requirement for compliance.

Operational flexibility will be the ultimate determining factor in the costs associated with your Title V permit. You need not wait until your draft permit is issued to begin negotiating for this flexibility. Making the most of opportunities presented in EPA guidance, along with a thoughtful examination of your Title V application, supports development of revisions or addenda that will help you achieve the most operational flexibility at the least cost. **EP**

Joseph Curreri is vice president for Air Quality Studies at ENSR, in Acton, Mass. He has 23 years of experience in industrial air permitting under the Clean Air Act and state air toxics programs.

For more information, circle 280 on card.



Specializing in the design of dewatering systems to eliminate industrial and municipal waste water sludge handling problems.

- Belt filter presses from 0.8 to 3 meters
- Filter presses
- Table thickeners
- Mobile & skid-mounted units
- SS & other special construction available



We offer laboratory and on-site pilot testing

Call us for all your dewatering needs

PHOENIX Process Equipment Co.
2402 Watterson Trail • Louisville, KY 40299
Phone: (502) 499-6198 • Fax: (502) 499-1079
E-Mail: phoenix@dewater.com

Rising to meet the need

Circle 70 on card.



Prototech

A subsidiary of United Catalysts Inc.
(781) 444-5188 Fax: (781) 444-0130

PERIODIC TABLE



**"You called the right place.
We can take care of that!"**

Circle 29 on card.

ENVIRONMENTAL AUDIT LEGISLATION: *EPA vs. The States*

The disparity between EPA's audit policy and many state audit laws leaves companies without complete protection when conducting an environmental audit

By Donald J. Parthum, Jr., JD, and John M. Brown, JD

Federal and state environmental audit laws allow companies to conduct self-audits to measure their compliance with environmental laws and regulations, improve their own environmental management system or evaluate risks associated with their activities. The U.S. Environmental Protection Agency has expressed concern with state audit laws that create evidentiary privileges that prevent the audit from being used as evidence against the company and grant broad immunity from civil and criminal fines and penalties. Michigan's audit law is one example.

EPA's Final Policy

In December 1995, EPA issued its final policy on environmental audits. The stated purpose of EPA's audit policy is to promote voluntary self-policing by companies and encourage voluntary compliance with federal environmental laws and regulations.

EPA's audit policy provides that if violations are voluntarily discovered and reported to EPA, the company may qualify for a reduction in the penalty that might otherwise be imposed. EPA's audit policy contains several important definitions. Environmental audit is defined as a systematic, documented, periodic and objective review of practices related to meeting environmental requirements. Due diligence is defined as a company's efforts to prevent, detect and correct environmental violations. Gravity-based penalty is the penalty levied above and

beyond recoupment of monetary benefits the company has gained by the violation. To qualify for a reduction in gravity-based penalties, a company must meet the following conditions:

- Discover the violation through an audit or due diligence;
- Voluntarily detect the violation;
- Promptly disclose the violation to EPA;
- Discover and disclose the violation independent of government or third-party action;
- Promptly and comprehensively cor-

**EPA strongly opposes
the audit privilege
because EPA believes it
invites secrecy and
poses difficulties to
prosecutors and litigants.**

rect and remediate the violation (corrective action must be initiated and completed within 60 days, otherwise written notice must be provided to EPA);

- Prevent recurring violations (steps taken must be in writing);
- No repeat violations within the past three years at the facility;
- Not seriously harm or endanger the public health or environment; and
- Cooperate with EPA.

EPA will not seek gravity-based penalties or refer the matter for federal criminal enforcement if all of the above conditions are satisfied. If all of the conditions are met except discovery of violations by audit or due diligence, the company is eligible for a 75-percent reduction in gravity-based penalties. EPA's audit policy does not grant immunity from penalties, only a reduction in the amount of the penalty, and does not recognize the concept of "audit privilege," meaning the audit report and its contents are protected from disclosure to the government and others.

State Audit Laws

To date the states have gone in three directions in implementing environmental audit policies. The following states have enacted their own audit laws: Alaska, Arkansas, Colorado, Idaho, Illinois, Indiana, Kansas, Kentucky, Michigan, Minnesota, Mississippi, Montana, New Hampshire, Ohio, Oregon, South Carolina, South Dakota, Texas, Utah, Virginia and Wyoming. Roughly three-quarters of these states grant some type of civil immunity—elimination of administrative or civil penalties and fines. One-third grant some type of criminal immunity—elimination of criminal penalties and fines—and a few reduce criminal penalties not qualifying for immunity. The following states have opted for administrative policies similar to EPA's audit policy rather than adopting broader audit laws: California, Florida, North

Carolina, Oklahoma, Pennsylvania, Tennessee, Vermont and Washington. The following states are believed to be considering administrative policies similar to EPA's audit policy: Delaware, Maryland, New Mexico and West Virginia.

Michigan's Environmental Audit Privilege and Immunity Law, Part 148 of the Michigan Natural Resources and Environmental Protection Act, provides that audit reports are privileged from disclosure of information to the government and to pri-

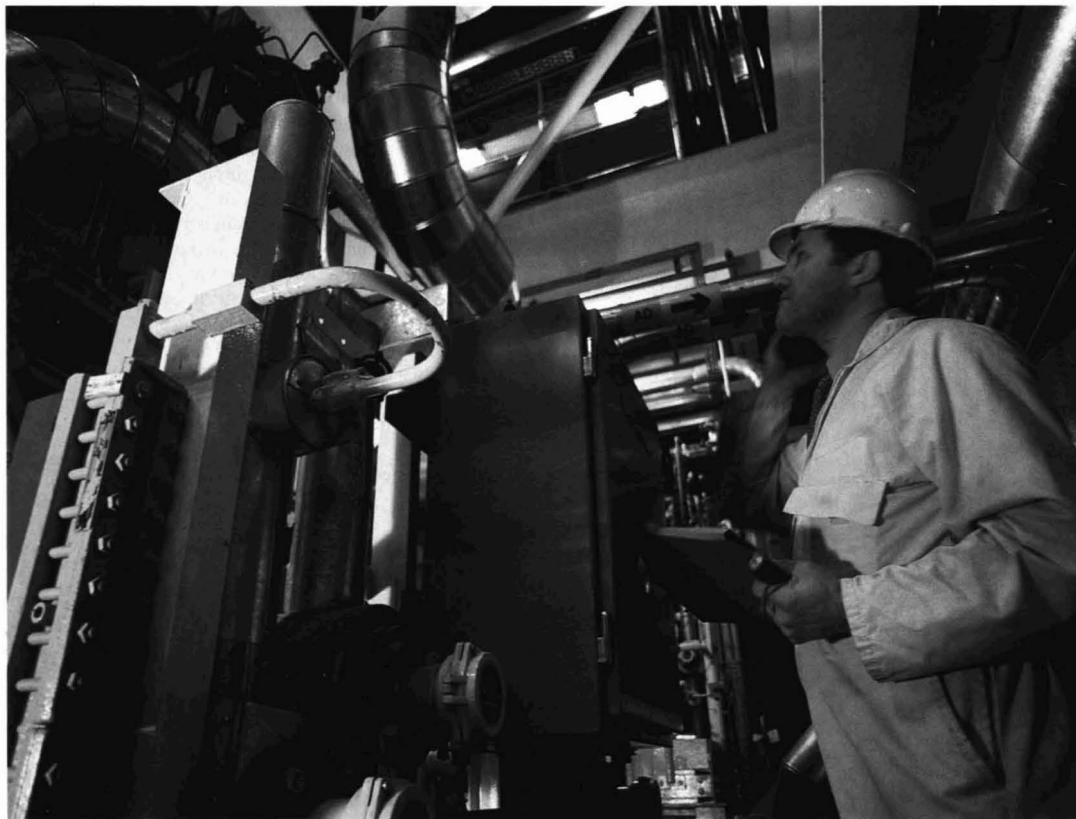
vironmental management system. The audit must be labeled "Environmental Audit Report: Privileged Document," and the privilege also applies to all field notes, records, findings and other supporting information generated during the audit process.

The report is privileged unless:

- The information is required by law to be reported to a regulatory agency or other person;
- The information is obtained by the

The privilege applies if the information contained in the audit is not shared with third parties. However, the privilege is not waived if the information contained in the audit is disclosed by the company to an employee, an agent retained to address an issue or issues raised in the audit, the person's legal representative, or if the information is disclosed under the terms of a confidentiality agreement.

Before its recent amendment, Michi-



vate parties in any civil or administrative proceeding. Alternatively, if a company elects to waive the privilege and voluntarily discloses evidence of violations, it is rewarded with immunity by the state from most administrative, civil and criminal fines and penalties for those violations.

Michigan's audit law defines an environmental audit as a voluntary and internal evaluation designed to identify historical or current noncompliance and prevent noncompliance or improve compliance, to identify adverse environmental conditions or to improve an en-

vironmental management system. The audit must be labeled "Environmental Audit Report: Privileged Document," and the privilege also applies to all field notes, records, findings and other supporting information generated during the audit process.

- The information is legally obtained independently of the audit;
- The information consists of machinery and equipment records;
- The privilege is asserted for a fraudulent purpose; or
- The information shows evidence of a noncompliance with environmental requirements and the company for whom the report was prepared failed to take corrective action within a reasonable time, not exceeding three years.

gan's audit law provided that if the audit was voluntarily disclosed to the appropriate state or local agency, the company was granted complete immunity from civil or administrative penalties and criminal prosecutions for disclosed violations. However, the immunity did not apply to criminal penalties or fines for gross negligence or willful criminal acts, continuous or repeated violations, or violations of federal law. The immunity did not relieve a company's responsibilities to correct the violation, conduct necessary remediation or pay damages.

Take A Free Test Drive.



NEW!

DryCal DC-Lite Primary Flow Calibrator

Flow ranges:
Std: 10 cc to 12 Lpm
Low: 2 to 500 cc/min.
High: 20 cc to 20 Lpm

It's fast, yet
easy to handle,
with 7-years of road testing.
The New DryCal DC-Lite.

**Call today for
your FREE
2-week
trial!**



230 West Parkway, Unit 1, Pompton Plains, NJ 07444
Phone: 973-839-6960 Toll Free: 800-663-4977
e-mail: sales@biosint.com

Environmental Audit Legislation: EPA vs. The States

EPA's Reaction to Michigan's Audit Law

EPA's audit policy differs from Michigan's audit law in that EPA's audit policy does not recognize that the audit is privileged or grant immunity from fines and penalties. EPA strongly opposes the audit privilege because EPA believes it invites secrecy and poses difficulties to prosecutors and litigants. On the other hand, industry believes that the lack of privilege allows third-party litigants to use audit data for toxic tort and other lawsuits against the company. EPA also is concerned that statutory immunity language may deprive the state of adequate authority to enforce federal environmental programs. In fact, EPA has in some instances threatened to withdraw the power to enforce federal environmental programs from states with audit privilege and immunity provisions.

For example, EPA has granted Michigan only interim approval for issuing air pollution permits to stationary sources pursuant to the federal Clean Air Act. The primary reason cited by EPA for withholding final approval from Michigan is the privilege and immunity provisions in Michigan's audit law. Michigan's interim approval runs through February 1999. Texas and Idaho also only received interim approval for their air permit programs because EPA was similarly displeased with the Texas and Idaho audit laws. EPA currently is reviewing the audit laws of Colorado, Kansas and Oregon and re-evaluating its grant of full approval to these states in light of its grant of interim approval to Michigan, Texas and Idaho.

In response to EPA's concerns, the Michigan Department of Environmental Quality (MDEQ), the Michigan Attorney General and EPA agreed on amendments to Michigan's audit law to resolve EPA's concerns and federal environmental program delegation issues.

The amendments to Michigan's audit law include the following provisions:

- Require the audit to be completed within six months;
- Require that advance notice of the audit be given to the MDEQ in order to receive immunity;
- Do not recognize a privilege with respect to criminal investigations or proceedings (the audit report can be used as evidence in criminal cases);
- Do not grant immunity if the company gained a substantial economic benefit from the violation, the violation was of an administrative or judicial order or resulted in serious harm or was an imminent threat to human health or the environment; and
- Do not grant immunity from criminal penalties and fines for environmental violations related to wetlands, floodplains, stream beds and stream channels.

The amendments to Michigan's audit law were patterned after similar changes negotiated and agreed to between EPA and Texas. The state agreed to eliminate immunity and privilege for criminal violations of environmental laws and eliminated immunity where a violation resulted in a serious threat to health or the environment or if the violator gained a substantial economic benefit giving it a competitive advantage. The changes to Texas' audit law became effective September 1, 1997. Similar changes were included in a bill signed by Utah's governor in March 1997. Idaho's governor has stated that he would not support a bill extending Idaho's environmental audit law, which expired on December 31, 1997, unless reauthorized.

Despite the agreements reached with these states, EPA remains deeply opposed to any form of audit privilege. EPA has stressed that state law cannot limit EPA's ability to obtain information or



This dove is a symbol of peace.



Our dove is a symbol
of peace of mind.

The Green Dove Award is a universally recognized symbol of accredited registration to ISO 14001. It provides employees, customers, regulators, the community and society with confidence that an organization is not only managing its environmental obligations effectively, but it's also committed to continual improvement.

Independent verification leading to ISO 14001 registration and the Green Dove Award is available worldwide, but only through SGS International Certification Services. Since 1878, as the world's largest organization in the field of inspection and verification, SGS Group has provided its clients with a comprehensive range of environmental and quality management system assurance services.

If your organization is a responsible corporate citizen and can demonstrate an effective environmental management system, shouldn't you also be giving the world a little peace of mind?

For more information about our ISO 14001 registration and training services, please call 800-747-9047 or 201-935-1500.

SGS International Certification Services, Inc.



Environmental Audit Legislation: EPA vs. The States

otherwise exercise its authority under federal law or be used to deny specific rights to private parties under federal environmental laws. However, in a July 1, 1997 letter to the MDEQ, an EPA representative promised not to target Michigan companies that use Michigan's audit law as amended. EPA's commitment should help relieve industry concerns that they may become arbitrary targets of EPA enforcement if they conduct audits under Michigan's audit law and discover violations.

Congressional Involvement

The United States Congress introduced two environmental audit bills (S.886 and H.R.1884) that, if enacted, would provide a company with limited immunity and deem the audit as privileged subject to certain exceptions, provided the company voluntarily conducts the audit and promptly corrects any discovered violations. Congress has also introduced a bill (S.1332) that, if enacted, would prohibit EPA from withholding from states the authority to enforce federal environmental programs simply be-

cause those states have enacted audit laws that provide limited protection from discovery of audit information and limited immunity. EPA and environmental groups undoubtedly will play an

Industry believes that the lack of privilege allows third-party litigants to use audit data for toxic tort and other lawsuits against the company.

active role in determining whether this legislation is passed.

It is important that any environmental audit be designed to fall within the protection of well-recognized privileges, such as the attorney-client privilege and the work product doctrine. If certain requirements are met, the attorney-client privi-

lege protects communications between a client and his or her attorney, and the work product doctrine protects materials prepared in anticipation of litigation. These additional protections are important because while state audit laws may benefit a company in state court, the privilege may be lost in federal court. Additionally, companies should recognize that state audit law immunity from penalties for voluntary disclosure does not apply to federal penalties. Given the intricacies involved, it is recommended that a company consult its attorney before beginning any environmental audit to help ensure that it understands the benefits and the risks that may be involved. **EP**

Donald J. Parthum, Jr., JD is an environmental attorney who practices law in Detroit, Mich., and John M. Brown, JD, is an attorney with the law firm Kelley, Casey & Clarke, P.C., in Detroit, Mich., where he practices litigation, environmental and insurance law.

For more information, circle 195 on card.

Your global training experts for ISO 14000

Interactive sessions.

Learn by *doing*, not just listening.

Customized training.

You learn what you want to know.

Experience.

Learn from environmental professionals with over 20 years' experience.

Knowledge.

We have in-depth knowledge of US regulatory framework and legal processes.

Credentials.

Excel Partnership was the first training company to receive EARA approval for the 5-day Advanced EMS Auditor Course for both Quality and Environmental Professionals.

On-Going Support.

Our experts offer guidance in the planning, application and implementation in all aspects of your EMS.

FREE Booklet
ISO 14000: The Answers to your Questions
call 1-800-374-3818 ext. 236

ISO 14000 Overview

One-Day Course ■ \$295 ■ 7 CEUs

April 13, 1998 - Englewood, NJ

May 4, 1998 - Seattle, WA

Understanding Environmental Regulations

Two-Day Course ■ \$795 ■ 1.4 CEUs

April 14-15, 1998 - Englewood, NJ

May 5-6, 1998 - Seattle, WA

Developing and Implementing an ISO 14001 EMS

Three-Day Course ■ \$995 ■ 2.1 CEUs

April 6-8, 1998 - Houston, TX

April 28-30, 1998 - Atlanta, GA

May 11-13, 1998 - Wilmington, DE

Implementing an ISO 14001 EMS for Quality Professionals

Two-Day Course ■ \$795 ■ 1.4 CEUs

April 6-7, 1998 - Providence, RI

April 16-17, 1998 - Englewood, NJ

EMS Internal Auditor

Two-Day Course ■ \$795 ■ 1.4 CEUs

April 16-17, 1998 - Houston, TX

May 14-15, 1998 - Wilmington, DE



NAP Accredited Advanced EMS Auditor Course
for both Quality and Environmental Professionals

Five-Day Course ■ \$1995 ■ 4.0 CEUs

April 20-24, 1998 - Wood Dale, IL

April 27-May 1, 1998 - Auburn Hills, MI

EXCEL
PARTNERSHIP, INC.

75 Glen Road, Sandy Hook, CT 06482
(203) 426-3281 Fax (203) 426-7811
<http://www.xlp.com>

SAMSCO Wastewater Evaporators

Partner with the Leader

Why the Leader? Why Samsco?

- Wastewater Evaporation is Our Business
- Ten Years of Field Experience and Application Knowledge
- Time-tested Proven Track Record
- More than 1,000 Installations Worldwide
- Unmatched Regulatory Proficiency
- Performance and Results – Guaranteed

Minimize Your Investment Risk – Work with the Evaporator Experts

Waste Stream Assessment

SAMSCO provides a complete functional analysis of each of your waste streams. This enables us to project the specific performance characteristics of your waste streams within the SAMSCO equipment.

Regulatory Proficiency

When it comes time to work with your state for permitting approval, SAMSCO is there. We can either provide regulatory consultation, and/or we can complete all required documentation for you.

Quality...No Compromises

SAMSCO understands what is asked of an evaporator.

The equipment must continuously concentrate complex chemicals under harsh, ever-changing conditions. This demands uncompromising attention to:

- Equipment design
- Materials of construction
- Components selection
- Process/safety control logic

SAMSCO's superiority of design and construction remain the standard by which all other evaporation systems should be compared. Your investment is protected with SAMSCO.

Engineered to Perform Day-in, Day-out

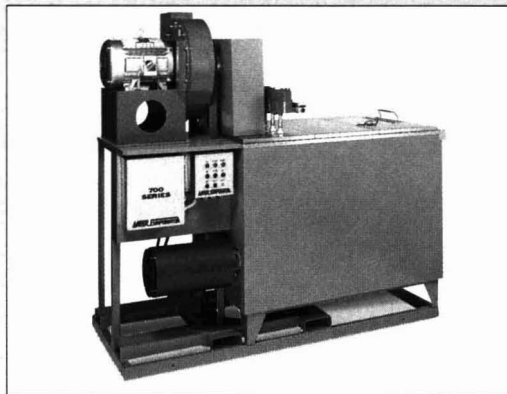
Facility Planning

Start to finish, SAMSCO will help integrate the evaporation system into your plant's daily operations. Complete system design of your wastewater handling and specification of ancillary equipment is provided, yielding flexibility, low operating cost and minimal routine maintenance.

Flexibility for the Future

SAMSCO systems are not waste stream specific and can process several complex chemistries simultaneously. As production needs change, SAMSCO provides free waste analysis throughout the operating life of the evaporator.

Optional Condenser for "Closed Loop" Water Recovery



Applications As Diverse As:

Machining & Grinding Coolants
Floor Scrubber & Mop Waters
Alkaline Cleaners & Parts Washing
Tumbling & Vibratory Solutions
Stamping & Drawing Compounds
RO/UF Concentrates & Flushes

Plating Solutions & Rinses
Die-Casting Process Waters
Ion-Exchange Regenerates
Vehicle & Aircraft Washing
Foods and Pharmaceuticals
Steam Cleaning & Power Wash

SYSTEM BENEFITS

- Reduce Wastewater Volume up to 98%
- Eliminate Sewer Accountability – Forever
- Process Multiple Waste Streams Simultaneously
- High Efficiency – Theoretically and Field Proven
- Lower Cost of Ownership
 - Operating Costs of Only Pennies per Gallon
 - Low Use and Maintenance Costs
- Simple to Install, Operate, and Maintain
- Fully Automatic – 24 Hour Unattended Use
- Redundant Safety/Operational Controls
- Natural Gas, Propane, Steam, and Electric Units
- Wide Range of Evaporative Capacities (Thousands to Millions of Gallons per Year)

SAMSCO WATER EVAPORATOR

SAMSCO, INC., 18 Cote Avenue, Goffstown, New Hampshire 03045

Phone: (603)668-7111 Fax: (603)647-0537



WARNING

Choosing the wrong equipment company
to help you remove this is the real hazard.

Circle 34 on card.

O N T H E J O B F O R H A Z M A T



Removing hazardous materials is risky

enough. So why take chances when picking an equipment rental company? Choose Hertz. As Number One in hazmat for over 30 years and with knowledgeable sales reps at each of our more than 130 locations nationwide, we can equip you to handle contaminants quickly and with confidence. From excavators to pumps to trucks, we offer over 120 kinds of reliable, brand name equipment. All of it well-maintained and scrubbed clean after each job. Just to be on the safe side. So call us at 1-800-438-6977.

Hertz

A L W A Y S O N T H E J O B.

Equipment Rental

ENVIRONMENTAL CLEANUP PAVES THE WAY

One brownfield site is redeveloped to become a cost-effective commercial property

By Vern Singh, PE, and Thomas Boyd



Photo courtesy of URS Greiner

The Atlantic City Convention Center site during remediation and development.

The 1990s have seen a surge in government incentives to rehabilitate urban properties for commercial and industrial use. Developers once viewed the redevelopment of "environmentally challenged" urban real estate as too costly in terms of both the expense to remediate a brownfield site and the potential future liability of contaminated land resulting in health risks to the public.

In response to such concerns, the federal Brownfields Economic Redevelopment Initiative (BERI) was created in 1993. Managed by the U.S. Environmental Protection Agency, BERI was designed to reduce some of the cost by lifting regulatory barriers. Unlike suburban real estate, brownfield sites are often centrally located within a city and have an infrastructure already in place.

The Atlantic City Convention Center and Rail Terminal project offers a textbook illustration of the commercial redevelopment of a brownfield site. Located on Kirkman Boulevard, it is half a mile from the Atlantic City boardwalk and adjacent to the Intercoastal Waterway and the Atlantic City Expressway.

The project includes a convention center with more than 500,000 square feet of exhibition space, 46 meeting rooms, 1,500 parking spaces and a rail terminal that connects Atlantic City to major population centers in the northeast, including Philadelphia, Washington, New York and Boston. Planned and constructed by the Atlantic County Improvement Authority (ACIA) in conjunction with the New Jersey Sports and Exposition Authority at a cost of \$268 million, the development is a key component of urban renewal in Atlantic City.

County leaders recognized the value of the brownfield site almost a decade before federal and state programs were enacted. In 1984, ACIA initiated the industrial redevelopment of 36 acres of inactive industrial property. The property consisted of three contiguous sites, including a 29-acre railroad site, a 6-acre coal gas processing facility and a 1-acre bulk fuel oil handling and storage facility. Historic use of the site had led to contamination across much of the project area.

Site Field Investigations

To confirm the information gathered and the preliminary conclusions reached during the search of historical records re-

lating to contamination, URS Greiner conducted site topographic surveys, a ground-penetrating radar survey and aboveground electromagnetic surveys, as well as a cultural resource investigation. URS Greiner completed numerous soil borings, constructed dozens of ground-water monitoring wells and collected and analyzed soil and groundwater samples. Water-level readings were recorded during tidal fluctuations in the adjacent waterway and test pits were used to assess contamination levels.

Once the analytical data was collected

**The project includes a
convention center with
more than 500,000
square feet of exhibition
space, 46 meeting
rooms, 1,500 parking
spaces, and a rail
terminal that connects
Atlantic City to major
population centers in the
northeast, including
Philadelphia,
Washington, New York
and Boston.**

and validated, "fingerprinting" techniques were used to interpret the data and assess which contaminants resulted from which industrial activities, since cleanup costs were to be divided among several parties.

The most heavily contaminated soils and groundwater were found at the location of the former coal gas manufacturing and fuel oil distribution facilities. The contaminants of major concern in the soil as well as in the groundwater included benzene, toluene, xylene and methylbenzene. The site included abandoned structures that contained coal tar-type liquids, abandoned foundations and underground storage tanks.

The railroad site showed a widespread

presence of petroleum-related products with some localized contamination of metals. Total petroleum hydrocarbon (TPH) contamination found across the railroad yard was the result of past activities like repair, cleaning and fueling. The highest concentrations, detected along former track alignments near the engine house and fuel pumps, were at shallow depths and likely the result of surface fuel oil spills.

Polycyclic aromatic hydrocarbons (PAHs), which result after incomplete combustion or pyrolysis of coal, were present near the engine house, in the vicinity of the track alignments and near the ash pits. Phenols, associated with coal use, were detected near the track alignments. Metals found at elevated concentrations included arsenic, chromium, lead, nickel and zinc. Contaminants were not determined to have impacted groundwater.

Remedial Technologies

The project development schedule and ultimate site use were the most significant factors in evaluating remedial technologies. Remedial alternatives were developed and evaluated for technical, public health, environmental, institutional and cost considerations, as well as constructibility, completion schedule and end use.

To minimize the required excavation of contaminated soils and reduce remediation costs, URS Greiner worked with the project design team and the New Jersey Department of Environmental Protection to propose changes in the design of the convention center, such as raising its elevation and constructing a novel slurry wall.

Remedial action design and construction were divided into five operable units. Breaking the work into smaller operable units created a more competitive environment for construction contracts and helped reduce contract costs even further. Time constraints on the project were critical. To comply with the overall project schedule, flexible and innovative design technologies were used and the remedial design and action were carried out simultaneously.

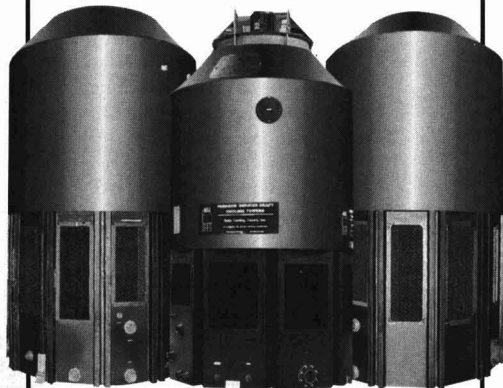
Following detailed discussions and an evaluation of the possible risk to human health and the environment, it was determined that excavation and offsite disposal of contaminated soils coupled with groundwater withdrawal and treatment

Delta Cooling Towers

THE MOST DURABLE CORROSION RESISTANT COOLING TOWERS AVAILABLE

Delta Cooling Towers save thousands of dollars a year by returning 97% of process water to the heat source for reuse. Our towers do not corrode, rust, crack, chip or ever need a protective coating or painting.

- Maintenance Free One Piece Shell.
- Medium Density Polyethylene Shell – 15-year Warranty
- Perfect For Applications From The Routine To Extremely Corrosive.
- Factory Assembled For Simple installation.
- Made In The USA – Consistent High Quality
- Over 25 Years Of Leadership in Non-Corrosive Cooling Tower Manufacturing.



Delta Cooling Towers

Leader in Non-Corrosive Cooling Tower Technology

Delta Cooling Towers, Inc. Telephone 973/227-0300
134 Clinton Road Toll-Free 800-Buy Delta
P.O. Box 952 Fax 973/227-0458
Fairfield, NJ 07004-2970

E-mail deltacooling@worldnet.att.net
Website www.deltacooling.com

Environmental Cleanup Paves the Way

were the most appropriate remedy for the coal gas and fuel oil sites. However, on the remaining site there was no need to remove the almost 60,000 cubic yards of petroleum hydrocarbon-contaminated soils. These soils were permitted to remain onsite and the convention center floor level was raised to accommodate this soil. The structure and its foundation would be functionally equivalent to a cap, thereby integrating the cleanup plan with the building construction.

Proposed landscaping plans were modified to minimize infiltration through the marginally contaminated soils and to allow the use of an impermeable liner over a portion of the coal gas site. Approximately 2,000 cubic yards of hot-spot soils highly contaminated with TPH were excavated and sent to an offsite recycling facility. The alternative of raising the building rather than removing the contaminated soil resulted in significant savings and made the development more attractive.

During the cleanup of the coal gas and fuel oil sites, abandoned footings, sludge-filled coal gas holder tank bottoms and buried pipes and vaults were uncovered and removed. Groundwater remediation included construction of five subsurface groundwater collection drains and wells, subsurface barrier walls and a pretreatment system.

The original design called for a 2,600-foot-long, 30-foot-deep slurry wall to enclose the site. In addition to sealing off the area from groundwater inflow, the wall had to be compatible with the foundation of the convention center and rail terminal.

A more expedient and cost-effective solution involved a construction method that had been used only once before in the United States. An innovative slurry, comprised of a backfill mix of soil, cement and bentonite, provided a bearing capacity equal to that of the existing soil. To meet the tight rail terminal construction schedule, 600 feet of the wall were constructed using interlocked steel sheetpiles.

Collected groundwater was pumped to a 30-gallons per minute (gpm) pretreatment system that included an oil/water separator, packed tower air stripper and carbon adsorption units. The treatment facility design, which was based on a three-dimensional groundwater model, was customized to fit a 30-foot-wide strip of land acquired by the ACIA across the street from the site. The offsite location allowed construction of the convention center, which opened in May 1997, to proceed without affecting treatment operations. Pretreated groundwater was discharged to the public sewer for final treatment.

Throughout the course of the project, the ACIA and its environmental consultant, URS Greiner, held a succession of partnering sessions and discussions with state and local regulatory agencies. These sessions were particularly fruitful during the early stages of the project, allowing the construction of the rail terminal to be completed within schedule, which was necessary to qualify for federal funding.

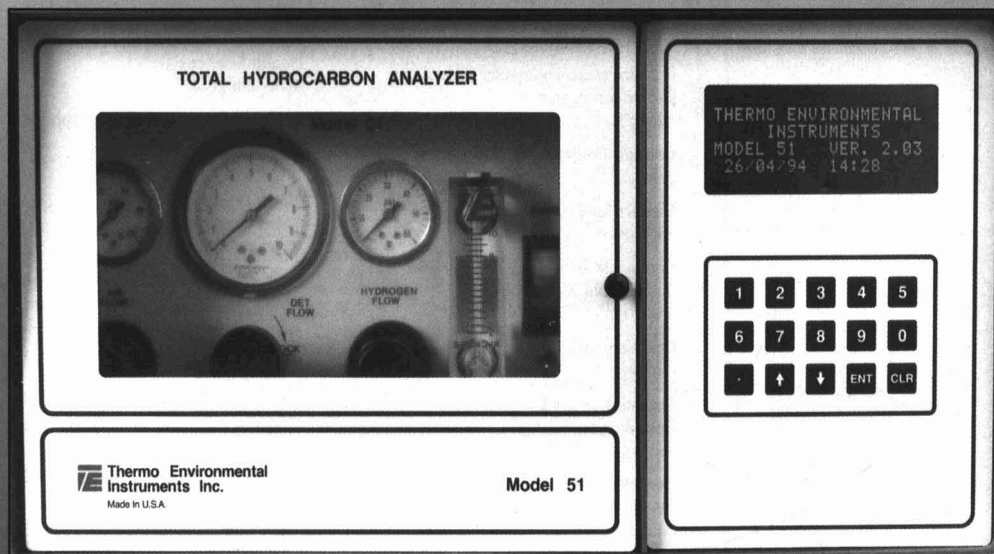
The key to a successful brownfield project is the dedicated cooperation among all the parties involved. As the Atlantic City example demonstrates, a remedial action approach can be successfully integrated with construction requirements to expedite the process and bring about a cost-effective commercial development. **EP**

Vern Singh, PE, is senior vice president with URS Greiner Inc., and Thomas Boyd is project director with the Atlantic County Improvement Authority.

For more information, circle 196 on card.

**We've Made FID-Based
Hydrocarbon Monitoring AUTOMATIC!**

The THERMO 51-HT Total Hydrocarbon Analyzer



- 200° Heated FID
- Auto Ignition
- Auto Relight Upon Flameout
- Auto Diagnostics
- Auto Calibration

- Auto H₂ Off
- Local and Remote Alarms
- Remote Device Initiation
- Analog, Current and RS-232 Output

Use the 51-HT for:

- Continuous Emissions Monitoring
- Permit Testing
- Method 25/25A
- VHAPS Monitoring

The 51-HT, THE AUTOMATIC CHOICE!
(Also available in a Low Temperature Version)



Thermo Environmental Instruments Inc.

8 West Forge Parkway, Franklin, MA 02038
508/520-0430 Fax: 508/520-1460

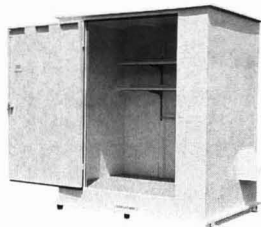
Are Your Company's Hazmat Storage and Disposal Costs Going Through the Roof?



Safely store incoming hazardous chemicals in pre-engineered buildings and lockers. Available in centralized or satellite systems.



Reduce your volume of hazardous waste through compaction. **CTI Systems** routinely achieve compaction ratios of 4:1, reducing your disposal costs up to 80%!



Accumulate your compacted hazardous waste in relocatable structures which can be customized to meet your needs.

Ask for your **FREE Hazmat Storage Selection Guide** and a catalog on a full range of buildings and lockers.

Phone 847-294-1000 Fax 847-298-9716
Toll Free 1-800-727-2067

HAZSTOR
HAZARDOUS MATERIALS STORAGE

Division of Justrite Manufacturing Company, LLC
Subsidiary of Federal Signal Corporation © 1997 Justrite

Look Who's Online

Academy of Certified Hazardous Materials
gnnet.net/achmm

Biolinks (Biodiversity Newsletter)
erin.gov.au/life/general_info/biolinks/
biolinks.html

Bureau of Reclamation
usbr.gov

California Department of Pesticide Regulation
cdpr.ca.gov

California Energy Commission
energy.ca.gov/energy

California Environmental Resources Evaluation System
resources.agency.ca.gov

Canada Center for Inland Waters
cciw.cal

Centers for Disease Control
cdc.gov

Center for Renewable Energy and Sustainable Technology
crest.org

Chemical Industry Institute of Technology
ciit.org

Commission for Environmental Cooperation
cec.org

Committee for the National Institute for the Environment
cnie.org

Congressional Record
access.gpo.gov/su_docs/aces/aces150.html

Consortium for International Earth Science Information
ciesin.org

Council for Agricultural Science and Technology
netins.net/showcase/cast/

Earth Negotiation Bulletin
iisd.ca/linkages/voltoc.html

Edwards Aquifer Research and Data Center
eardc.swt.edu

Environmental Industry Web Site
enviroindustry.com

Environmental Appeals Board
epa.gov/boarddec/index.html

Federal Register
access.gpo.gov/su_docs/aces/aces140.html

Fedworld Information Network
fedworld.gov

Global Change Master Directory
gcmd.gsfc.nasa.gov

Global Change Research Information Office
gcrio.org

Global Climate Web Site Research
climate.gsfc.nasa.gov

Global Network for Environmental Technology
gnet.org

Global Research Information Database
grida.no

Great Lakes Information Network
great-lakes.net

The National Association of Environmental Professionals
NAEP.org

National Institute of Environmental Health Sciences
niehs.nih.gov/

National Oceanic and Atmospheric Administration Network
nnic.noaa.gov

North Dakota State Water Commission
water.swc.state.nd.us

Ohio Environmental Protection Agency
epa.ohio.gov/oepa.html

Office of Surface Mining
osmre.gov/astart3.html

Pacific Forestry Center - Canadian Forest Service
pfc.forestry.ca/

Penn State University Weather Pages
ems.psu.edu/wx/

Texas Natural Resource Conservation Commission
tnrcc.state.tx.us

UCLA Center for Clean Technology
cct.seas.ucla.edu/

United Nations Environment Program
unep.ch

U.S. Army Corps of Engineers
usace.army.mil

U.S. Department of Energy
doe.gov

U.S. Department of the Interior
usgs.gov/doi/doi.html

U.S. Department of Justice
usdoj.gov

U.S. Environmental Protection Agency
epa.gov

U.S. Fish and Wildlife Service's National Wetlands Inventory
nwi.fws.gov/

Water Technology
watertechnology.com

WaterWeb
waterweb.com

WaterWiser - The Water Efficiency Clearinghouse
waterwiser.org

PRODUCT STEWARDSHIP: A NEW MINDSET

Part Two of a two-part series outlines how responsible product management can increase corporate earnings and cut costs

By Gregory G. Bond, PhD

Product stewardship is an important discipline for any corporation that faces issues relating to the environment, health and safety. And as we noted in our previous article, product stewardship must be a mindset which colors everything we do (see "Product Stewardship: A New Mindset, Part I: Managing EH&S Issues in the February issue of *EP*"). For a product stewardship program to work effectively, however, the company's business groups must take ownership of the environmental, health and safety goals and processes and integrate them into their business strategy.

A number of tools can be used to assist the line managers of each business and encourage them to develop strategies within the EH&S mindset. Chief among these are core issue analysis, life cycle analysis and full cost accounting. These can all be sold to businesses on the basis of the value they contribute.

Tools for Integrating Product Stewardship

Core issue analysis is a process in which a business evaluates the vulnerabilities in its products and processes—what might be called the gaps between public expectation and the actualities of performance. This procedure leads to the identification of the top three to four issues.

Once these issues are identified, a series of scenarios are developed around them: a best case, a worst case and a "base case" or most likely scenario. The financial impact of each scenario is then estimated, as a guide to determining what resources are needed for managing the issues and how they should be deployed. The resulting decisions then become part of the business' strategic thinking. And since mem-

bers of the business have worked through the process, the business takes ownership of the resulting strategies.

Life cycle analysis (LCA) is a crucial tool for developing continuous improvement. It consists of three components: life cycle inventory, life cycle impact analysis and life cycle improvement analysis.

Life cycle inventory, the first step in the LCA process, is often mistaken for the whole analysis. Although this involves a thorough and time-consuming inventory of all impacts of a product or

portation, handling and disposal, as a result of the first two steps of LCA. A business group that has gone through this total process is well on the way to integrating EH&S into its business strategy.

Full-cost accounting holds great promise for the future, but is not yet adequately developed. It includes several mechanisms to measure and incorporate all direct and indirect costs into the cost of a product, including those associated with EH&S considerations. The long-term goal of this discipline is to make sure all costs are traceable in the product price.

**Only by recognizing the
value of the process
can we get away
from using product
stewardship as a mere
reaction to regulatory
pressures, and instead
integrate it into strategy.**

process on the human and natural environment throughout its life cycle, it is only the beginning of the total process.

Life cycle impact analysis, the second component, picks up where the inventory leaves off. It is involved with measuring the product's or process' impact on the environment and public health. The third step, life cycle improvement analysis, then analyzes the changes which must be introduced into the product's or process' sourcing, production, trans-

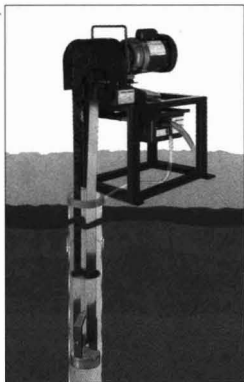
Value of Product Stewardship to the Business

If product stewardship is to be sold to a corporation's businesses, it must be on the basis of the value it contributes. Only by recognizing the value of the process can we get away from using product stewardship as a mere reaction to regulatory pressures, and instead integrate it into strategy. It is not always easy to measure the value of product stewardship, but some specific results can be identified.

To begin with, product stewardship adds value to corporate management and marketing by both increasing revenue and decreasing costs. Revenue is increased through:

- Satisfying the customer's needs for a safe product and for assistance in safe handling, use and disposal. Increased customer satisfaction can lead to increased market share.
- The development of newer products and processes with less harmful impact on human health and the environment, through introducing EH&S considerations at the development stage.
- Assisting businesses to achieve neces-

Skim Your Way To The Top...



...with Abanaki's PetroXtractor

**Don't Pump & Treat,
Lift & Separate.
In one operation!**

- Eliminates tangled cables & hoses.
- Easy to install and maintain.
- Lifts oil up to 100 feet.
- Removes up to 12 GPH (SAE 30).

Abanaki is the world leader
in industrial skimming
of oil and grease.
Save money, save time.
Call the experts today.

<http://www.abanaki.com>
800-358-SKIM ext. 507

ABANAKI
CORPORATION
OIL SKIMMER DIVISION

17387 Munn Road
Chagrin Falls, OH 44023
(440) 543-7400
FAX (440) 543-7404



Product Stewardship: A New Mindset

sary regulatory approvals more quickly, thus allowing sales to occur sooner than they might have otherwise.

Costs are decreased through:

- Reduced cost of compliance through working with regulators to develop more realistic, science-based regulations, and to bring greater recognition of industry's voluntary improvements.

- Ensuring regulatory compliance. Product stewardship helps both the producer and the customer to comply with regulations, thus avoiding civil and criminal penalties.

- Sharing costs of developing product safety data and procedures with competitors through working in trade associations.

- Minimizing costly environmental and health impacts associated with the use of the products. This can also provide the product with a real sales incentive.

- Reducing product liability costs through minimizing potential injuries and illnesses associated with product use.

- Minimizing the cost of defense in liability cases. When liability cases come to trial, we have found that juries are often favorably impressed when they learn that we have a person responsible for the safety of a particular product.

- Promoting trust in industry, including greater confidence in the chemical processing industry and other producer industries on the part of customers and the public.

Product Stewardship and the Customer

The transfer of product stewardship information to the customer is an important element in any EH&S program. Dow's product stewardship program for the chlorinated solvents is a good example.

The chlorinated solvents, methylene chloride, perchloroethylene and trichloroethylene, are used in a variety of industries for both cleaning processes and product formulation. Regulations governing exposure, emissions and disposal are stringent, so users of these products must be fully informed of safety and waste minimization procedures. Dow provides customers with a library of helpful literature. Among the available information is:

- A product stewardship manual detailing safe handling and disposal procedures, as well as physical and chemical data on the products.

- An illustrated safety brochure for operating personnel, "How to Get Along with Solvents," and a safe handling wall poster for the plant. The brochure is available in both English and Spanish, while the poster uses pictograms to aid comprehension across language barriers.

- A waste reduction kit containing literature on waste reduction and minimization.

- A vapor degreasing kit containing literature on economical and efficient vapor degreasing methods, as well as procedures for converting surface cleaning lines to chlorinated solvents.

- A chlorinated solvents newsletter for both direct customers and customers of distributors. This contains information on federal and state regulations as well as tutorial articles on safe and responsible use of the solvents.

- The development of a closed-loop system for both delivery of solvent to the customer's equipment and the removal of waste solvent for disposal/recycle. A special vapor return capability permits solvent transfer with virtually no emission of vapors to the atmosphere.

In addition, workplace vapor monitoring badges are available to customers, as well as test kits to measure the quality of the inhibitors in the solvents. Dow's Technical Service and Development (TS&D) personnel are also available to advise customers and help them comply with regulations.

For customers using perchloroethylene for dry cleaning, even more specific information is offered. This is particularly useful, since most dry-cleaning facilities are small businesses with no plant safety specialists on staff. Dry-cleaning customers receive a safe handling manual, in both English and Korean versions, a safety wall poster (also available in Korean) and a newsletter containing regulatory information and tips on environmentally responsible procedures. In addition, safe handling videos, produced by Dow, are available through the solvent distributor.

To provide safer and more environmentally responsible delivery of perchloroethylene, Dow, in conjunction with a major equipment manufacturer, has also developed a closed-loop delivery system which uses small volume returnable containers. This system is already being used by a number of Dow's dry-cleaning distributors.

Value Through Global Capabilities

A global product stewardship program adds value on a worldwide scale. This has proved itself in practice at Dow, where businesses have become global and we have aligned product stewardship with this new organization. Many of our major customers have also become or are becoming multinational, and want us to supply them internationally. Through our global EH&S capability, we can help them expand on the world market by sharing our knowledge about EH&S challenges, regulations and legislation in other areas of the world. To obtain value on a global scale:

- We standardized product stewardship practices to avoid a "double standard."
- We are able to identify the specifically global issues and manage them as such, since some EH&S issues are global while others are local.
- We are able to leverage North American and European resources and technology to benefit developing countries.
- We can coordinate EH&S testing internationally to better manage costs.
- We are developing a multinational system for new chemical inventory registration (i.e., Toxic Substance Control Act, EINECS, CEPA, etc.). This is important for introducing products into new markets, and for obtaining a "license to sell" by getting products on country inventories.

These examples show that product stewardship is not only good for health and the environment—it is also good for business. There is no need for EH&S professionals to apologize for any costs involved in product stewardship; in most cases they are amply repaid. Value, however, results from viewing the world and your business with the product stewardship mindset.

However, it is necessary for managers throughout the entire product value chain to adopt product stewardship quickly as a voluntary program, if they have not already done so. Already, some governments are looking at mandatory "extended producer responsibility." Such mandates are rarely as effective as voluntary industry initiatives, which allow greater innovations and flexibility. **EP**

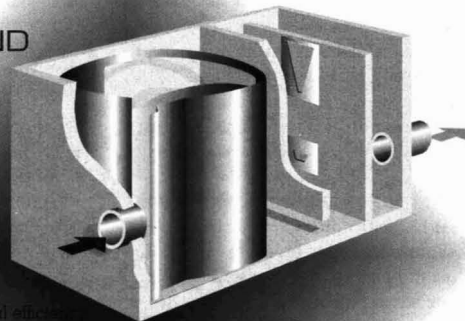
Gregory G. Bond, PhD, is the corporate director of product responsibility at The Dow Chemical Co., Midland, Mich.

For more information, circle 197 on card.

Vortechs™

Stormwater Treatment System

BREAKING NEW GROUND



- Low maintenance costs
- Over 80% net TSS removal efficiency
- Treatment capacities from 1.5 to 25 cfs
- High-performance design prevents pollutant resuspension & release
- Small footprint, quick installation
- Unsurpassed technical support



Vortechs, Inc. • 41 Evergreen Drive, Portland, Maine 04103
Ph 207.878.3662 • Fax 207.878.8507 • Online www.vortechs.com

- ▶ Watershed Protection
- ▶ Commercial/Residential Development
- ▶ Municipal/Roadways
- ▶ Industrial & Recycling Facilities

Circle 39 on card.



SBR Wastewater Treatment Plants for Domestic, Municipal & Industrial Applications

For More Information Contact:
Babcock Water Engineering, L.P.
15707 Rockfield Blvd., Suite 333
Irvine, CA 92618
Phone: 714-472-9110 ♦ Fax: 714-472-9210
E-Mail: wastewater@sbrbass.com
<http://www.sbrbass.com>

CONTROLLING TETRAETHYL LEAD EMISSIONS DURING REMEDIATION

One New Jersey cleanup project cost-effectively eliminated organic lead emissions by using enclosures and air treatment systems

By Brian Ambrose, CHMM, William J. Barnes and Mary L. Glowacki, CHMM

The control of air emissions at remediation sites is a problem that has plagued the industry for years. Traditional engineering controls have had limited degrees of success. Thus, controlling organic lead emissions from the remediation of a 1.5-mile former process waste ditch system (PWDS) in New Jersey posed a real engineering challenge.

Tetraethyl lead (TEL), an organo-metallic compound, is a colorless, poisonous, oily liquid having a pleasant odor. Its major hazard is the poisonous nature

of its liquid or vapor when ingested, inhaled or absorbed through the skin. Exposure can cause both acute and chronic poisoning, affecting both the central nervous system and reproductive systems. TEL has an immediately dangerous to life and health (IDLH) value of 40 milligram per cubic meter (mg/m^3) and a lower explosive limit (LEL) of 1.8 percent. TEL concentrations in the subsoils were in excess of 100,000 parts per million (ppm), so reaching IDLH and/or LEL conditions were likely. To minimize

potential adverse impact to workers during remediation, it was imperative that emissions be controlled to limit worker exposure and eliminate the migration of contamination from the work area.

The wood-lined ditch was used for approximately 20 years to convey wastewater generated during the production of organic lead, a motor fuel additive, from the process area to a settling basin. When the production facility closed in 1991, the TEL-rich sludge was recovered and processed through a lead pretreatment facility. The remaining subsoils in the PWDS required remediation.

Technology Selection

After evaluating several treatment technologies, the project team chose stabilization as the remedial option for the impacted soils in the ditch. Contaminated subsoils to an average depth of 5 feet remaining in the PWDS had to be mixed with 25 percent Type I Portland cement and 5 percent activated carbon. This stabilization was performed to both reduce leachate and increase the geotechnical characteristics of the subsoil, which enabled the material to be placed in an existing hazardous waste management unit on the facility.

Based on the remediation technology selected, controlling emissions using vapor suppression foam and clean cover systems were ruled out. Foam has a limited life



after application and must remain in a static state in order to provide a vapor barrier, and clean fill would increase the total waste volume. The limitations of these controls were recognized as both costly and impractical for this application.

For this reason, the project team chose a technology used throughout the asbestos industry, the use of enclosures. It was selected based on costs and the ability to meet the emissions criteria. This technology required enclosing the work area and ventilating the air through carbon adsorbers.

modular vinyl enclosure system connected to high flow carbon absorption units were selected.

System Description

Two separate enclosures were required to meet the needs of the project. The enclosures selected measured 20 feet by 30 feet or 16 feet by 30 feet, depending on available space. The enclosures were constructed with 16-ounce weight fire-resistant vinyl stretched across galvanized tube frames. At each end of the enclosure, slotted doors allowed personnel

ed to the air inlets on each carbon unit. The pneumatic blowers were then connected to the enclosures using 18-inch-diameter flexible vent hose. To ensure the efficiency of the air system, anemometer testing was conducted daily to document air velocity and volume.

Remediation Activities

The approved stabilization method required the addition of predetermined amounts of carbon and Portland cement to the subsoils. The mixing process and excavation of the stabilized material were



Critical design concerns included the ability to capture all emissions, control ambient organic lead concentrations within the enclosure, effectively treat emissions and provide adequate working space. The selected enclosures would have to be fire resistant, due to the low flashpoint of TEL, and portable enough to be moved along the PWDS in an active chemical manufacturing facility. Also, the enclosures needed to be configured around existing obstructions, but large enough to allow a small excavator and several personnel to work safely inside. Based on these concerns, a

and equipment to move in and out freely. The enclosures were placed one behind the other, and as work was completed in one enclosure, it was dismantled and reassembled on the other side of the remaining enclosure.

A ventilation system capable of maintaining a minimum flow rate of 3,300 cubic feet per minute (CFM) was required to capture and treat emissions within the enclosure. The ventilation system consisted of two 6-ton granular activated carbon units. The units were loaded on "low-boy" trailers for ease of movement. Two pneumatic blowers were mechanically connect-

performed using a compact tracked excavator. The stabilized material was allowed to reach minimum compressive strength prior to removal from the PWDS.

Prior to full-scale operations, a pilot study area was selected where TEL concentrations were representative of the rest of the PWDS. This would allow careful review of the systems' ability to capture and treat emissions. The pilot study began in August when ambient temperatures would have the greatest effect on volatile emissions. The project team theorized that TEL levels inside the enclosure would be proportional to

Controlling Tetraethyl Lead Emissions During Remediation

the amount of material disturbed. Based on this, a surface area limit of 50 square feet of material was stabilized, excavated and packaged at any one time. The team also focused on a tightly sealed enclosure maintaining a slightly negative pressure.

The excavation and disposal of the stabilized material were also critical in the emissions control process. The use of woven, polypropylene bags with 6-mil polyethylene liners allowed the stabilized material to be packaged and sealed inside the enclosure. The bags proved strong enough to handle the weight of the material and were configured to allow the use of mechanical materials handling equipment. This capability allowed the use of a telescoping boom forklift to shuttle bags in and out of the enclosure without compromising the pressure within the enclosure. Because the bags were sealed at the point of origin, the off-gassing of TEL during the transportation, placement and final disposition of the material was essentially eliminated.

Air Sampling Program

The air sampling program was designed to quantify TEL concentrations both inside and outside the enclosure. The National Institute for Occupational Safety and Health (NIOSH) Method 2533 was selected for the collection and analysis procedure. Samples were collected when activities involved disturbance of the PWDS subsoils. Inside the enclosure, the project team collected two area samples and one personal sample. Personal samples were placed on the employee with the greatest exposure potential, usually the excavator operator. Area samples were set up in fixed locations at heights equivalent to the workers' breathing zone. Outside the enclosure, one upwind and three downwind samples were collected to determine the effectiveness of the enclosure. Additionally, one personal sample was collected on the employee outside the enclosure with the greatest exposure potential.

Evaluation Criteria

The project team evaluated sample results based on the location of the col-

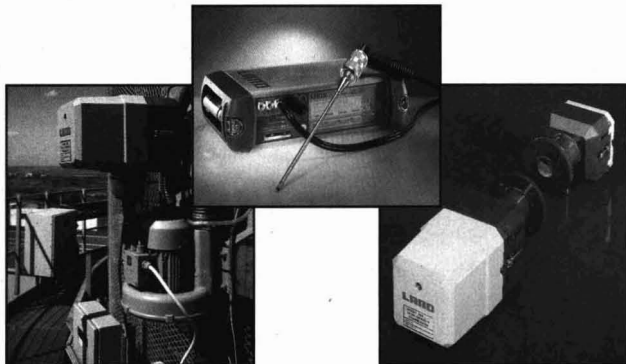
lection. Samples outside the enclosure were not to exceed the permissible exposure limit (PEL) of 0.075 mg/m³. Samples inside the enclosure were not to exceed half the IDLH value or 20 mg/m³. Combustible gas readings were not to exceed 0 percent LEL at any time. The operation was immediately ceased as action levels were exceeded, until further operational or engineering controls were instituted.

Initial sample results ranged from 0.003 mg/m³ to 0.01 mg/m³ outside the enclosures, demonstrating that emissions were effectively controlled below the PEL. Inside enclosure measurements ranged between 0.2 mg/m³ and 2.0 mg/m³. As the project progressed to full scale, areas of high TEL concentrations in subsoil were encountered. Sample results outside the enclosures remained constant; however, inside the enclosure results began exceeding the action level. Operations were discontinued for three days and an additional carbon unit was added to increase air flow. Additionally, exhaust

compliance monitoring and fuel cost savings

The most comprehensive range of combustion efficiency and compliance monitoring technology.

- **FGA Series Emissions Monitors**
- **Model 4500 MKII Dust and Opacity Monitor**
- **LANCOM Series II Portable Flue Gas Analyzer**



For all present and future compliance monitoring requirements plus continuous fuel cost savings in all hospital energy systems

- **Medical Waste Incinerators**
- **Boilers**
- **Generators**

50

Years in Instrumentation
1947-1997

LAND
combustion



the total efficiency concept

Division of Land Instruments International Inc.

2525B Pearl Buck Road

Bristol, PA 19007, USA

Telephone: 215 781-0810

Facsimile: 215 781-0798

Toll Free: (in USA) 800 922 9679

E-Mail: sales@land-combustion.com

For MACT Incineration Compliance, You Can Take A Shot Yourself...



Or You Can Turn To Rhodia



Complying with the proposed Hazardous Waste Combustor MACT (Maximum Achievable Control Technology) regulations will be no game. Your waste treatment program is under scrutiny and the stakes are being raised. No company is better-suited to helping you tailor a treatment program for a wide array of waste streams than Rhodia. Our Eco Services team offers unsurpassed RCRA-certified incineration, solids fluidization and biotreatment services.

Our chemical manufacturing and RCRA facility experience assures an unmatched perspective on waste treatment and the requirements for MACT compliance. We can work with you to tailor a waste treatment

program using both our resources and your internal capabilities to create a unique and cost-effective solution.

Reliability. Competency. Security. Innovation. These are the keys to a successful waste treatment program. When it comes to MACT compliance, don't play games. Turn to Rhodia Eco Services.



Responsible Care®
A Public Commitment

**For More Information, Look Us Up On
The Web At www.ecoservices-us.rhodia.com
Or Give Us A Call At 800-521-2289.**



Eco Services

Circle 42 on card.

® Responsible Care is a registered trademark of the Chemical Manufacturers Association.

PlantWare32[®]

Your Essential Enterprise-Wide EHS Software Solution

Environmental, Health and Safety information management is business information management. It is *essential* not only for regulatory compliance but also to your bottom line — even your ability to continue business operations.

PlantWare32 is a comprehensive, thoroughly integrated environmental management information system that lets you unify and streamline information processes at every level of your operations — saving time and money every step of the way.

Select only the capabilities you need to manage:

**Air • Waste • Water • Inventory •
MSDS • Health & Safety**

Find out how PlantWare32 can help you assure regulatory compliance, cut daily costs, and reduce risks while boosting productivity and profitability.

**Call (800) 999-5009 or visit our Web site
at www.essentech.com today!**



1401 Rockville Pike, Suite 500, Rockville, MD 20852
Telephone: (301) 284-3000; FAX (301) 284-3001

Circle 43 on card.
PLWAE398



Controlling Tetraethyl Lead Emissions During Remediation

ducting that was connected directly to the enclosures' vinyl cover was moved inside, physically closer to activities.

Personal Protective Equipment

Personal protective equipment (PPE) levels were established based on the tasks to be conducted. Stabilization and excavation activities inside the enclosure system required full-face supplied air respirators (positive pressure/pressure demand) with a 5-minute escape bottle. Saranex® fully encapsulated seamless suits with nitrile gloves and butyl over-boots provided dermal protection. Employees were equipped with cool jackets that circulated compressed air through tygon tubing. This circulation created evaporative cooling, reducing the risk of heat stress. The compressed air also pro-

ject cost approximately \$3 million.

The PWDS was remediated and closed in a cost-effective (less than 5 percent cost over-run) manner. The enclosure and air treatment systems were a tremendous success. Their flexibility and durability survived many reconstructions, uneven terrain and severe weather conditions with limited maintenance costs. Air emissions were successfully captured and treated, protecting workers and preventing emissions from migrating to surrounding plant areas. **EP**

Brian Ambrose, CHMM, is a senior health and safety specialist; William J. Barnes is a project health and safety specialist; and Mary L. Glowacki, CHMM, is a regional safety manager with DuPont Corporate Remediation Group in Wilmington, Del.

The authors would like to thank Lucian J. Janik, environmental engineer, Andrew T. Meloy, project manager, and A. Dwight Bedsole, business team leader, for their technical and editorial contributions.

For more information, circle 281 on card.

Critical design concerns included the ability to capture all emissions, control ambient organic lead concentrations within the enclosure, effectively treat emissions and provide adequate working space.

vided a positive pressure inside the Saranex suit, further eliminating the potential for TEL absorption.

Support activities outside the enclosure required a full-face air-purifying respirator with organic vapor/acid gas/high efficiency particulate air (HEPA) cartridges. Saranex suits with elastic hoods, wrists and ankles taped to nitrile gloves and butyl over-boots provided dermal protection. Ice vests were worn, and work rest regimens were established to reduce heat related problems. An exclusion zone was established to delineate the areas where PPE was required.

The project extended over an 8-month period with an average crew size of 30 men and amassed 32,000 safe man-hours. A total of 3,621 lineal feet of PWDS were remediated, resulting in 42,000 cubic yards of material. The total

The problem — sheen

WE KNOW YOU'VE HEARD IT BEFORE. Take it from one of our customers, "Previous products that have made claims like yours were an endless source of disappointment. Since we have been using sheen devil™ and other mother™ products, in our remediation program, not only has our effectiveness gone from 20% to 100% but our cost has been reduced from 10K/week for MBPP technology to 4K/week in sheen devil™ and other mother™ products."

APPLICATIONS
• Streams & Rivers
• Tanks
• Tank Berms
• Docks & Harbors

The solution

PATENTED CHEMISTRY makes our products different. Our patents #5437793 and #5698139 are for a new class of molecule which allows the oil to adhere immediately, instantly rendering oil hydrophobic and viscoelastic thereby preventing sinking, emulsification, weathering and tarball formation.

sheen devil™ Stops Sheen On Contact

- Instantly Attaches To Sheen And Will Not Let Go
- Does Not Absorb Water
- Weighs Only 1 lb. Per 10 Feet
- Minimizes Waste Costs
- Easily Deployed & Retrieved

Let Us Prove It!

mother™ has a full line of products to handle all types of oil related pollution from heavy oil to sheen.

CALL US NOW AT
1-888-30-MOTHER
FAX 770-534-3117
1124 Purina Drive
Gainesville, GA 30501

mother™
OIL REMEDIATION PRODUCTS

HORIZONTAL WELLS ACCESS JET FUEL CONTAMINATION

Remediation project uses horizontal wells at New York's JFK Airport to clean up spilled jet fuel

By Jeff Griffin

Cleaning up underground soil and groundwater contamination can be complicated by what has been built on the surface and activities occurring above contaminated areas.

Contamination plumes are often under paved areas such as driveways to businesses, parking and service areas, and beneath buildings, streets and other areas where large excavations and their subsequent repair can be as expensive—or even more costly—than the remediation itself.

Technology using horizontal wells for soil and groundwater, especially *in situ* methods, is attracting attention in environmental circles.

For many situations, environmental engineers are finding that horizontal wells offer advantages over other methods of accessing contamination plumes. Installed with directional drills, wells can be installed under paved drives, parking areas, streets and other obstructions without disrupting activities on the surface. Because many underground contamination plumes spread horizontally rather than vertically, horizontal wells can establish greater contact with contaminated media and achieve more efficient remediation.

The same horizontal directional drilling equipment now used for installing underground power and telecommunications cable and natural gas and water pipe can place horizontal remediation wells in the ground without extensive excavations or disrupting surface activities. Wells can be positioned under drives and streets while in use and can be placed directly beneath buildings and other structures.



Photo courtesy of Baroid Industrial Drilling Products

While there has been a steady increase in the number of horizontal remediation wells placed in service, the technology is still new enough that most environmental consultants in the United States have not used it.

The largest remediation project to date using horizontal wells is under way at New York's John F. Kennedy International Airport, says Dawn Kaback, director of the Colorado Center for Environmental Management, an environmental organization that promotes horizontal well procedures and keeps records of horizontal well installations.

The multi-million-dollar airport project dramatically illustrates the significant advantages horizontal wells can

bring to environmental cleanup operations and is broadening interest in horizontal well techniques.

Remediation at the airport was necessary to clean up underground free-product contamination caused by jet fuel spilled over time during refueling operations at gate areas. Total contamination covered less than one-half square mile below the surface. The Port Authority of New York and New Jersey, which operates JFK International, initiated the project.

More than 50 horizontal remediation wells were installed at the airport. Forty-two were placed under paved tarmacs and aprons outside the airport's Terminal 4 (previously known as the Interna-

tional Arrivals Building). Another 10 were installed at Terminal 2. Well placement was completed in April 1996.

After the wells were installed, they were connected to remediation equipment that treats contaminants *in situ*. Remediation will be accomplished by soil vapor extraction, air sparging and bioremediation procedures.

Terra Vac, of Houston, Texas, was part of a joint venture with the general contractor for installing the remediation system at Terminal 4. Under contract with Terra Vac, Michels Environmental Services, of Brownsville, Wis., installed 30 wells. Terra Vac crews installed the additional wells and were responsible for well completion. Fluor Daniel GTI Inc., of Norwood, Mass., had a separate contract for the work at Terminal 2. A&L Underground Inc., of Greer, S.C., placed 10 wells for Fluor Daniel GTI.

The key factor in the Port Authority's decision to use horizontal wells was that airport operations could continue during construction. If horizontal wells had not been used, options were to excavate contaminated soils, which would require digging through the paved tarmac, or drilling numerous vertical wells and digging trenches for piping necessary to connect wells to remediation equipment.

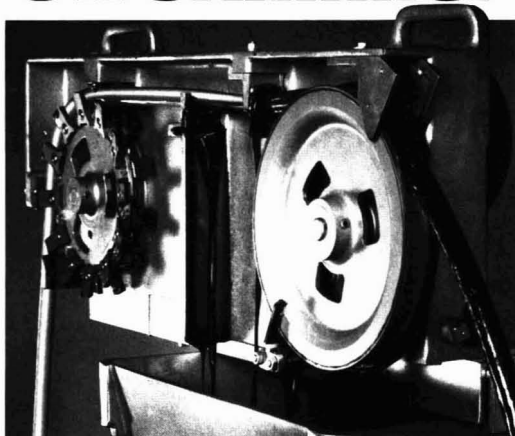
"Either procedure would have effectively shut down operations of Terminal 4," said Frank Zitkovich, Terra Vac's drilling superintendent, "and that was unacceptable."

The need for fewer wells and related piping reduced construction costs. In addition, the horizontal wells also will achieve more-efficient remediation, because they provide maximum screen exposure to contaminated areas. Each horizontal well influences the full plume length, whereas a vertical well affects a much smaller area.

Tim McGuire, Michels Environmental Services project manager, added that the anticipated efficiencies of the remediation process, along with lower operational and maintenance costs, will reduce expenses during the life of the project.

Four directional drilling machines were used to install the wells. All were relatively small and required little space for setup and operation. To install a well, a pilot bore enters the surface at an angle and proceeds downward until reaching the necessary depth. The bore's path is leveled and guided to a designated exit point. Drill head depth and location are monitored by a crew member using electronic tracking equipment, which also

Oil Skimmer



Simple, Efficient Waste Oil Recovery

Oil Skimmers oil recovery systems remove waste oil from water and pipe it into a drum. The systems work in any industry where floating oil is a problem. Uncomplicated, dependable, maintenance-free, Oil Skimmers systems are engineered to operate continually and unsupervised, 365 days a year.

If floating oil is causing you a problem, call Oil Skimmers, Inc. collect at **216/237-4600**. Find out how simple, efficient and profitable waste oil recovery can be.



OILSKIMMERS, INC.

P.O. Box 33092 • Cleveland, Ohio 44133 U.S.A.

Circle 45 on card.

3BROWN BEAR



Flexibility

- Flexibility: For your project and your budget
- Flexibility: For Composting, Dewatering, Bioremediation
- Flexibility: From the smallest to the largest projects
- Flexibility: From attachments to self propelled
- Flexibility: From job site to job site
- Flexibility: From the company that was the original

3BROWN BEAR

Three Brown stripes...The sign of quality
Brown Bear Corp., Corning, Iowa 50841 (515) 322-4220

Restek's SilcoCan™ Canister

Call our air specialists for
product information, price
and availability.

<http://www.restekcorp.com>

RESTEK (800) 356-1688
CORPORATION



ISO 9001



Horizontal Wells Access Jet Fuel Contamination

provides information necessary for making steering adjustments. Sections of drill pipe are added as the bore progresses.

After the drill head is brought to the surface, a backreamer and well screen (pipe containing slots) are attached to the drill string and the length of screen is pulled back through the pilot bore. Drill pipe is removed as the screen is brought back toward the starting point of the

bore. Drilling fluid is used both while making the initial bore and for pulling back sections of screen (See sidebar).

Zitkovic said that bore lengths ranged from 300 to 700 feet. Screen lengths varied from 70 to 500 feet (riser is attached to each length of screen). The depth of soil vapor extraction wells was from 2 to 4 feet and air sparging wells were placed at depths from 10 to 12 feet. Screen was

Drilling Fluid

Drilling fluid is one of the most important elements in horizontal directional drilling operations. In fact, some experienced drill operators consider fluid as much a down-hole tool as a bit or a backreamer.

Correct mixing and using the right drilling fluid for soil conditions is an important factor in any directional boring project—both for making the pilot bore and for pulling back material being installed. Fluid cools the bit, displaces cuttings and maintains the integrity of the bore hole. During installation, fluid maintains the walls of the bore and lubricates the material being pulled through the hole. Experienced drillers recognize that drilling fluid often determines the job's success or failure.

Fluids commonly used in directional drilling to make utility installations often are not suitable for environmental work because they can damage the formation and clog slots in the screen. Sodium bentonite, widely used for underground utility applications, was not acceptable for remediation work at John F. Kennedy International Airport.

For wells at JFK, one vital function of drilling fluid was stabilizing bore holes in highly-unstable sandy soil conditions. It had to accomplish this without reducing porosity or permeability of surrounding soils or clogging slots in well screen. Otherwise, remediation would be affected adversely.

The drilling fluid chosen for the JFK project was Baroid Bio-Bore, a proprietary blend of polymers developed by Baroid Industrial Drilling Products specifically to meet the environmental market's unique needs.

JFK contractor Michels Environmental Services began using the new product in mid-1995 as it was being developed, said Tim McGuire, Michels project manager. "Several organic, biodegradable drilling fluid products were previously tested and used by Michels in an effort to reduce drilling-related formation damage while installing horizontal wells," said McGuire. "However, none provided the properties that are critical to successful completion of directional-drilled horizontal wells, including a rapid high-yield point and consistent gel strength with optimal fluid loss control."

McGuire said while it is possible to achieve similar fluid properties with a mixture of conventional gel products, the initial solids content introduces unwanted solids into the formation as drilling continues. This increases the potential for inadvertent pore-space blockage and subsequent reduction in formation permeability around the bore hole and well screen.

"Since Bio-Bore offers the desired directional drilling fluid properties without initial solids content, along with biodegradability and ease of mixing, it is the ideal product for this type application for both the driller and the owner," McGuire said.

The polymer additive is soluble in water and disperses easily with moderate shear. It is compatible with a wide range of make-up waters. Mixed with fresh water, it produces a clay-free, biodegradable drilling fluid ideally suited for use in environmentally sensitive areas. Following well installation, fluid viscosity can be chemically broken or the solution can degrade naturally into nonhazardous substances. Time required for natural degradation varies with soil conditions and temperatures.

Michels proposed that the additive be used at JFK, and its effectiveness was proven during field tests at the airport in October 1995. Following those tests, Terra Vac and A&L began using the product for their drilling operations.

For more information on Bio-Bore, circle 198 on card.



Photo courtesy of Harold Industrial Drilling Products

4½-inch diameter HDPE (high density polyethylene) with 0.020 slots spaced between ¾ and 1½ inches, depending on each well design.

Drillers encountered varying soil conditions. The airport is built on highly abrasive hydraulic fill-sand pumped from Jamaica Bay prior to airport construction.

"There were 18 inches of steel-reinforced concrete on top," said Phil Kendig, division manager for A&L Underground. "Under the concrete was compacted and very abrasive sand to depths of 5 feet. Under that was loose sand from 5 to 11 feet. Below 11 feet, there was peat."

Kindig said that wells at Terminal 2 were

from 405 to 710 feet in length. Total footage was 5,400 feet. Average screen length was 440 feet containing various slot sizes.

"The size of the plume, surface condition, and the fact that construction did not alter airline operations contributed to the cost-effectiveness of using horizontal wells," he added.

Work at JFK involved situations crews had not encountered previously and the area had greater activity than normally encountered. Twenty-five airlines continued regular flight schedules during construction. Aircraft, baggage carriers, fuel trucks and other vehicles crowded confined construction areas. Close communication and cooperation were required among Port Authority staff, drilling crews, well development workers and construction contractor personnel.

"This project," said Zitkovic, "gives horizontal drilling technology a fair chance to prove itself on a large-scale remediation project."

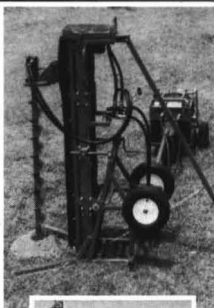
EP

Jeff Griffin is a contributing author based in Oklahoma City, Okla.

Drill Where You've Never Drilled Before

One Man Portability for Soil Sampling, Testing and Well Monitoring

- Removable from wheeled frame for mounting on truck, trailer or crawler.
- Powerful – maximum 100 ft. depth with 6" O.D. auger; 28 ft. with 16" O.D. auger.
- Reliable – proven Model PS-18 general purpose hydraulic power source.
- Swing-away drill head for sampling and soil-testing.



Hollow Stem Auger... Tough, yet Lightweight

Built for Speed

- Half the weight of other hollow stem auger systems.
- Easier to pick up, carry, attach, and fit to the drill stem so jobs go faster.

Rugged and Modular

- Tough, ductile mild steel augers and blades, hardfaced for durability.
- Replaceable cutting blade inserts of hardfaced steel or carbide.



Designed for use with the Big Beaver (as shown) or other Hydraulic Earth Drills manufactured by Little Beaver, Inc. Consult the Little Beaver Engineering Department for information on the use of the Hollow Stem Module with other drills.

Send today for product information (409) 327-3121



Little Beaver, Inc.

P.O. Box 840 • Livingston, TX 77351
Phone: (409) 327-3121 • Fax: (409) 327-4025
Internet: www.littlebeaver.com



WASTE MANAGEMENT IN THE AGE OF ELECTRONIC COMMERCE

*Waste generators and waste management companies
can enhance services and operations through electronic commerce*

By Eliot Cooper and Janet Gellici

You've probably used the Internet to send an e-mail to a friend or to search for information on discounted airfares or a good restaurant. Maybe you've even ordered golf clubs on-line or checked out the homepage of your favorite musical group.

The Internet has become more than just a leisure-time activity, and is an integral part of doing business for many professionals. In fact, the World Wide Web is now providing opportunities for waste generators and waste management companies to enhance their services and operations.

Colorado-based TSDX Corporation operates a one-stop business site on the Web—TSD Central® (<http://www.tsdccentral.com>)—for the industrial waste industry. TSD Central focuses on business-to-business commerce needs, ranging from purchasing and evaluating waste management services, to selecting innovative cleanup technology, to selling residual and surplus materials, to supplying information on employment opportunities, recent industry developments and regulatory updates.

The Electronic Marketplace

TSDX Corporation's primary service is the TSD Central Industrial Waste Management Network, which allows waste generators to electronically search for vendors and request competitive quotes for waste disposal and support services. The system was designed to simplify and streamline the purchase of treatment, storage and disposal facility (TSDf) services, which has traditionally been characterized as an expensive, slow and confusing process.

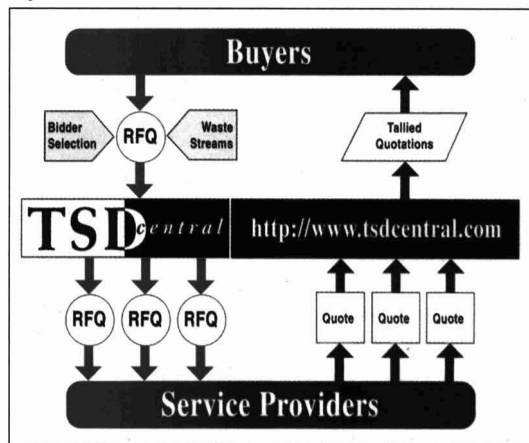
The industrial waste market in the United States today is represented by about 200,000 companies, spending more than \$10 billion a year on environmental products and services provided by over 4,000 vendors. TSD Central's \$1.5 billion network of the nation's leading hazardous and special waste management companies, benefits both buyers and sellers.

Waste generators can access information on prospective vendors and electronically submit requests for quotations (RFQs) in a standardized format, ensuring receipt of timely and competitive service bids (See Figure 1). The TSD Central service is free to waste generators, who also benefit from the cost savings

resulting from direct-to-vendor bidding process. TSD Central is not a broker; the company provides buyers with quotations directly from the service providers.

TSD Central-participating vendors, in turn, are provided with new ways to sell underutilized disposal or technology capacity. The fee-based membership includes a listing on the TSD Central network, a hyperlink to the vendor's Web sites and the opportunity to participate in the competitive bid-

Figure 1



ding process for waste management services. Industrial waste service providers pay for the cost of implementing the TSD Central system.

How It Works

After logging on and registering at the TSD Central Web site, waste generators can immediately participate in the RFQ process. The first step involves completing a Waste Stream Characterization form (ten wastes per RFQ), which requires input on the type and volume of waste.

This data is then attached to an RFQ form that details information on deadlines and preferred vendors, as well as appropriate logistical information. Waste generators have the opportunity to search for TSD Central-listed vendors on the basis of market reach, waste category and/or desired service option. Hyperlinks to vendor Web sites can help buyers secure answers to questions they may have regarding prospective service providers' capabilities.

Generators then submit their RFQs to TSD Central's network for distribution to buyer-selected vendors. Bids are returned to TSD Central within the deadlines specified on the RFQ, where they are then assembled and tabulated to provide the buyer with a line item-by-line item competitive analysis (See Figure 2).

By providing a wide range of competitive options directly from vendors and securing standardized quotations based on standardized RFQs, TSD Central helps cut costs associated with the traditional purchasing process.

In addition to TSDs, the TSDX network also provides access to transporters, technology companies, remediation contractors, equipment manufacturers and other industry service providers. If a service provider is not currently participating in TSD Central, TSDX will, at the buyer's request, contact them to provide additional competitive options.

The Evaluation Component

Recognizing that the selection of a TSDF involves careful evaluation of that company's operations, TSD Central also provides for quick and easy access to audit reports on waste management facilities located in the United States and Canada. The Web site's Audit Center features a comprehensive list of audit reports, along with pricing information and a convenient method for ordering.

Working with the National Environmental Management Institute (NEMI), CHWMEG Inc. and e date resources inc. (EDR), TSD Central currently offers more than 600 Site Audit and TSD Facility Information Reports. Reports are available for \$495 to \$3,000 and benefit both waste generators and waste management facilities. Generators save time and money associated with conducting their own audits; TSD facilities achieve savings through the elimination of redundant audits. See Environmental Audits Cataloged Online for more detailed information on the TSD Central Audit Center.

Other Services

In addition to its Electronic Marketplace and Audit Center, TSD Central offers a number of other commercial services, including a Residual Materials Exchange, Surplus Materials Catalog, Employment Center and Bookstore.

The Web site provides a clearinghouse for buyers and sellers of residual and surplus materials, including off-spec, used or virgin, chemicals, raw materials and other products. The Residual Materials Exchange and Surplus Materials Catalog offer cost-saving opportunities for buyers and sellers.

Raw material buyers can obtain information on available surplus materials or post requests for information on materials such as acids, alkalis, oils and waxes, solvents, organic/inorganic chemicals, plastics/rubbers and metals/metal sludges. Those with residual or excess materials can turn disposal costs into profits. Sellers can either list their materials "for sale" or check the posts of prospective buyers.

GREEN IS A PRIMARY COLOR



Designing and running processes that reduce wastes and emissions is not only the right thing to do, it's also the smart thing...as good for the bottom line as it is for your community and the planet. AICHe publications can help, with titles like:

- *Environmental Progress*—a quarterly magazine that covers all aspects of pollution control, including air, water, and solid and liquid wastes.
- Environmental titles from DECHEMA, the German chemical engineering society, addressing such issues as industrial wastewater, and bioassays for soils.
- *The Environment: Air, Water, & Soil and Environmental Management and Pollution Prevention*—PEP Series books which compile the best articles from AICHe literature on critical industry issues.

For more information on AICHe environmental products, call 1-800-242-4363 and request a copy of our Publications Catalog.

Circle 49 on card.

DON'T OVERSTATE YOUR EMISSIONS!

ENERAC™ 3000 Series Credible Data for an Uncertain Environment.



Simplify your life. Automatic features ensure accurate reproducible data, reducing both operational and compliance risks.

- Auto Mass Emissions / Velocity / EPA-Method 2 **NEW!**
- Meets EPA-CTM-022 / Multi-Range (10-5,000 PPM NOx) / Auto Temperature Control / Auto QA/QC
- Advanced SEM™ Sensors



For the information you need today, call 1-800-695-3637.
For continuous technical updates: www.enerac.com

1300 Shames Drive, Westbury, NY 11590

(516) 997-2100 • 1-800-695-3637 • Fax (516) 997-2129

ENERAC and SEM are trademarks of their respective companies.

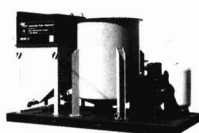




Taylor Environmental Products, Inc.



Model MV



Model CLLV



Model SDLV

Taylor Environmental Products, Inc. is committed to providing industry and business with the best solution to the problem of wastewater clean-up and recovery.

Taylor CPS 2000 Three Phase separation systems are specifically engineered to customer applications. They are very efficient and operator friendly with low maintenance costs.

Sanitary Sewer Discharge Systems Closed Loop Recycle Systems
Surface Discharge Systems Storm Water Run-Off Systems
By-Product Recovery Systems pH Control Systems

Some operations using Taylor CPS 2000 oil-water-solids separation systems...

- Equipment Washdowns • Transportation • Manufacturing • Chemical Companies
- Engine Repair • Marine Applications • Construction • Steel Mills
- Equipment Rental Companies • Rendering • Mining Industry
- Food Processing • Agriculture By-Products • Government Facilities

TAYLOR ENVIRONMENTAL PRODUCTS, INC.

628 Old Robinson Road, Louisville, Mississippi 39339-9099
Phone (601) 773-3421 / Fax (601) 773-7139

Circle 51 on card.

IMMEDIATE GROUNDWATER REMEDATION

Patented System - Five Year Proven Track Record

DNAPL - BTEX - VOCs - Pesticides

Remediates Organic Contamination

Large and small plumes - Fractured rock

The CleanOX® Process uses an environmentally safe Fenton-like chemistry. Safe and effective - no dangerous chemicals or pressures or special injectors.

No capital equipment. Test 7 days and beyond post injections for results. Injection hardware fits inside monitoring wells and other subsurface access.

Low cost in-situ solution / rapid remediation for sites.

Use examples: gas stations, dry cleaners, manufacturing, Superfund NPL.

Call for information package and case studies:

CleanOX Environmental Services, Inc.

17 Watchung Avenue, Chatham, NJ 07928
Phone: 973-701-1288 - Fax: 973-635-0751
Offices nationwide
<http://www.cleanox.com>

Circle 52 on card.

Waste Management in the Age of Electronic Commerce

Site visitors can also purchase an environmental book, industry publication or subscription service through TSD Central. And visitors can either look for jobs or post job openings online through the site's Employment Center.

In addition to its commercial services, TSD Central also serves as a resource for varied information on the industrial waste industry. Users can obtain information on business opportunities in the environmental management industry, innovative and best-cost technology options and industry associations and publications.

Daily news articles, Web resources and featured guest columns round out the site's information sources. Of particular interest is the latest TSD Central link to Resource Conservation

Figure 2

The Industrial Waste Management Network

1667 Cole Boulevard, Suite 400
Golden, Colorado 80401-3313

Email: tsd-info@tsd.com
URL: <http://www.industrial.com>

Phone: (800) 508-9960
Fax Phone: (303) 237-1163

SUMMARY OF QUOTATIONS

Your Request for Quotation No. 96-184

TSD Central™ RFQ No. 1374

Quotation Attached				Price Quotations			
				<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no
Service	Waste Stream Name	Quantity	Packaging	XXV Corp Dayton, Ohio	1 W.W. the Houston, Texas	ADC Co Chicago, Illinois	IFF Inc Memphis, Tennessee
Treatment Incineration Solids	Contaminated Soil with Paint Solvent	12 tons	roll-off bin	\$7,200.00	\$0.00	\$14,400.00	\$5,700.00
			State tax	\$2,400.00	included		\$15.44
			Subtotal	\$7,440.00	\$9,300.00	\$14,400.00	\$5,775.44
Transportation	Contaminated Soil with Paint Solvent	12 tons	roll-off bin	\$1,250.00	included	\$1,563.50	\$1,875.00
			Subtotal	\$1,250.00		\$1,563.50	\$1,875.00
Waste Approval Fee	Contaminated Soil with Paint Solvent	na	na	\$500.00	na	na	\$100.00
			Subtotal	\$500.00	na	na	\$100.00
			Total	\$9,190.00	\$9,300.00	\$15,963.50	\$7,754.44

Note: This summary is provided for convenience. However, your decision to award must be based on the attached quotations provided by the bidders.

November 11, 1997

Page 1 of 1

Note: This summary is provided for convenience. However, your decision to award must be based on the attached quotations provided by the bidders.
November 11, 1997

Page 1 of 1

and Recover Act (RCRA) Training Modules, which provides direct access to guidance documents used by EPA counselors in interpreting complex RCRA regulations.

TSDX Corporation has provided the means for those in the industrial waste industry to enter the electronic age, quickly, easily and beneficially.

Eliot Cooper is President of TSDX Corporation. Janet Gellici is a contributing writer to Environmental Protection.

For more information on TSD Central, circle 199 on card.

Not all change is bad.

**Environmental Protection's
bold new look
is coming next month.**

Surviving a Government Inspection

A game plan on what to do when government inspectors come knocking at your door

Federal, state and local governments routinely inspect all types of facilities under various environmental statutes. Inspections are prompted by agency compliance monitoring programs, citizen or employee complaints, administrative plans of enforcement, accidents or publicity. A lone inspector may perform a routine inspection or a "SWAT team" of specialists may conduct a "multimedia" inspection to ferret out criminal conduct.

Governmental enforcement activities are a fact of life for the business community. Companies must prepare for unannounced and close scrutiny of their operations. How a company handles an inspection may be directly related to what sort of enforcement action is taken.

Inspections provide an opportunity to develop a rapport with the agency representatives and gain insights into economical pre-enforcement compliance. A relationship based on professionalism and courtesy is a company's first inspection response strategy, but pre-inspection preparation is necessary to accomplish this goal.

Inspection Authority

The provisions of environmental statutes authorizing inspections by the U.S. Environmental Protection Agency and state governments differ significantly. Because of such differences, a company must review the applicable statute to determine what inspection authority may be exercised in a particular circumstance.

Search Warrants

Although EPA is authorized to inspect facilities to enforce environmental statutes, that power is subject to certain Fourth Amendment constraints, including the requirement to obtain a search warrant.

Federal environmental inspections do not require the presence of criminal "probable cause." Instead, only "administrative" probable cause is required; therefore, there need only be an in-

spection program supported by "reasonable legislative or administrative standards" or specific evidence of an existing violation. Administrative probable cause may be based on an employee complaint, a citizen complaint, prior inspections of a facility, reports submitted by the facility or simply a regulatory program that identifies likely targets for inspection.

A warrant is not necessary if any competent management official gives consent. Consent does not need to be stated verbally and can be implied by nonverbal actions. In fact, the failure to object to a search may constitute consent. The failure to warn the company of its right to request a warrant does not render the consent unknowing or involuntary.

Consent may be limited to specific areas of the facility and may be revoked during an inspection. No warrant is necessary if the condition is visible from an area open to the public, i.e. in "plain view," or where the business is "pervasively regulated."

EPA can obtain a warrant easily. Requesting a search warrant will normally only delay the entry into the site for as little as several hours. While denying access provides a window of opportunity to correct problems, it may lead to a higher level of scrutiny when the inspection occurs.

An inspection under warrant proceeds according to the terms of the warrant that may be very broad or vague. If access is permitted, the facility may, through discussions with the inspector, be able to limit the inspection and what documents are produced.

Inspections

The first step in any inspection preparation program is to designate those individuals who will respond to the inspection. These individuals may be personnel with continuing responsibility for compliance, but there may be reasons not to assign the front-line compliance personnel to an inspection. Whatever its composition, the inspection response group should be kept small.

The company also must establish certain standard procedures that apply when an inspector ar-

How a company handles an inspection may be directly related to what sort of enforcement action is taken.

R. Henry Moore, JD, and Heather A. Wyman, JD, are attorneys with the environmental law group of the law firm of Buchanan Ingersoll in Pittsburgh, Pa. Stephen G. Allen, JD, is with the firm's Lexington, Ky., office.

Surviving a Government Inspection

rives at the site. These standard procedures should include the following steps:

- Assume that appropriate personnel are notified;
- Assume that the inspector is accompanied; and
- Determine the procedures to follow during inspections.

The planning process also should involve selection of legal counsel to assist in an inspection, although it is usually not preferable to have the company's lawyer participate in inspections.

Scope Of Inspections

Inspections should be limited to the locations, equipment and information that have a direct relationship to the regulated equipment or process. If advance notice is given, a request should be made that the inspector specify the scope of the inspection in writing. In the absence of advance notice, the inspector should be asked to explain the nature and scope of the inspection, which records he or she wishes to review, whether cameras or tape recorders will be used and whether

samples will be taken. If a warrant is presented, it should be read to determine the scope of the inspection.

The Walk-Around

The company's inspection response group should accompany the inspector at all times. One person should be assigned to take detailed notes describing what the inspector saw, remarked, asked, which employees were interviewed and the inspector's visible reactions.

It is of vital importance in defending against enforcement actions to know exactly what happened during the inspection. The inspector will document the inspection and be able to later reconstruct the inspection. The company should prepare to rebut any allegations with detailed and clear

Having Trouble Finding Affordable, Quality Coverage?

It is easy if you have the right vision.

More than a decade ago, American Safety had the vision to protect contractors, consultants and facility owners against environmental remediation liability.

We have the expertise and experience to solve the insurance problems facing the environmental services industry.

Contact an innovative, specialty insurance leader providing superior coverage and unparalleled service.

Rated "A" (Excellent) by A.M. Best

(800) 388-3647

AMERICAN SAFETY INSURANCE GROUP

Liability Coverages & Workers' Compensation Insurance

Requesting a search warrant will normally only delay the entry into the site for as little as several hours. While denying access provides a window of opportunity to correct problems, it may lead to a higher level of scrutiny when the inspection occurs.

testimony to the contrary. If notes are taken, a copy should not be given to the inspector.

Although the company may use other techniques of documenting the inspection, such as recording a running commentary on audiotape or with videotape, the inspector may construe this as obstructing the inspection.

While the inspection will be limited to the areas identified in the warrant or to the areas consented to by the company, the company's inspection response group should avoid making overly technical objections to an inspector viewing a particular area. The company may terminate a voluntary inspection at any time, although any

information obtained to that point can be used against the company.

The inspector must take "reasonable precautions" not to cause any hazard and must obey all of the employer's safety and health rules.

The inspection response group must be careful about what they say to the inspector. While making a good impression is important, probably the best approach for the inspection response group to take is one of firm, and somewhat restrained, politeness. Misrepresenting facts or lying to the inspector is a federal criminal offense.

Photographs

Typically, inspectors take photographs of the facility and the site. The company should either take the same photographs as the inspector or request copies of the inspector's photographs, although the inspector is under no legal obligation to provide such copies. The inspection response team should be responsible for having the proper photography equipment readily available.

Samples

Often, inspectors will take samples. It is in the company's best interests to ask for a split sample if the sample is one that permits it. In fact, the Resource Conservation Recovery Act (RCRA) and the

**It is of vital importance
in defending against
enforcement actions
to know exactly what
happened during
the inspection.**

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) provide an absolute right, upon request, for split samples collected by the regulatory personnel. The company should prepare for such sample

splitting by developing and following proper chain of custody procedures and using EPA-approved quality assurance/quality control (QA/QC) procedures for sample analysis.

However, if the inspector will not agree to splitting samples, the results should be requested and company samples obtained.

Because enforcement action often is based upon an inspector's samples, the company's inspection response group should record, in detail, the sampling procedure and equipment used by the inspector. Having such information is the only way to challenge the validity of the inspector's sample.

Documents

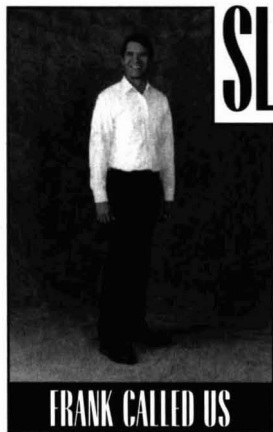
The company should:

- Show the inspector only those documents he or she is legally entitled to see;
- Always retain the original documents unless seized or subpoenaed; and
- Ask that all appropriate documents be kept confidential.

An inspector is required to inform

THESE TWO JUST PAID TO REMOVE THEIR

SLUDGE



FRANK CALLED US



ERIC DIDN'T

Managers like Frank have saved 30-70% on their treatment plant and lagoon sludge removal costs by using our probiotic technology.

DON'T LOSE YOUR SHIRT!

For a free brochure, call 1-800-961-1220

PROBIOTIC[®]
SOLUTIONS

INNOVATIVE SOLUTIONS FOR MEETING THE WORLD'S WASTEWATER CHALLENGES

Circle 54 on card.

**"If you don't get it
DIRECT..."**



**You just don't
GET IT!™**

Our new catalog is packed with absorbents for oil and chemical spills. Plus exciting products for handling maintenance leaks, spills or emergencies in your facility.

ANDAX[®]
**SORBENTS
DIRECT™**

Call to get your
FREE catalog!

(888)-476-7236

1-888-4-SORBENT

FREE FAX 888-44-DIRECT
E-MAIL: CUSTOMERSERVICE@ANDAX.COM
Web Site: www.ANDAX.com

Circle 55 on card.

| 63

Surviving a Government Inspection

the company of its right to claim confidentiality and the procedures necessary to make the claim to shield information from public access. When companies fail to assert a confidentiality claim, it is waived.

Public Disclosure

The information obtained during inspections is subject to public disclosure under the federal Freedom of Information Act (FOIA).

While FOIA establishes certain ex-

emptions to public disclosure, a company must recognize that the information it provides in an inspection may be subject to public disclosure. The company's inspection response team should advise the inspector about any areas containing trade secrets.

Inspector Misconduct

In rare instances, an inspection will involve misconduct by an inspector. The remedies for such problems are not easy to accomplish. Sometimes, a firm asser-

tion of the company's rights presented to the inspector can remedy what is perceived as misconduct. If the inspection is being conducted by consent, it can be terminated. In that event, the misconduct should be immediately brought to the attention of the inspector's supervisor in a non-confrontational manner. If the inspection is conducted pursuant to a warrant, the company can seek to quash or set aside the warrant in United States District Court.

At the conclusion of the inspection, the company should always request the inspector's findings and a copy of the inspection report. The company should

WATER QUALITY

MONITORING SYSTEMS FOR FRESH, SALT, GROUND & WASTE WATERS

Hydrolab offers several instrument systems to make your monitoring tasks easy and reliable. You may choose systems for simple field surveys, remote datalogging at out-of-the-way monitoring sites, or on-line integration with your existing data information systems.

Rugged Hydrolab multiprobes provide *simultaneous* parameter measurement with just *one* probe, reducing your need for multiple instruments.

Call today and find out about our new instruments that feature easy sensor reconfigurations, graphical data displays, new PC software, memory, GPS, and barometric pressure.



temperature
pH
dissolved oxygen
sp. conductance
conductivity
turbidity
salinity
resistivity
TDS
redox
ammonium
ammonia
depth
vented level
total dissolved gas
nitrate
chloride
ambient light (PAR)
transmissivity
chlorophyll A
barometric pressure
GPS



HYDROLAB CORPORATION
12921 Burnet Road • Austin, TX • 78727
Phone: 800-949-3766 or 512-255-8841 • FAX: 512-255-3106
Internet: www.hydrolab.com • Email: sales@hydrolab.com

A Member of the Environmental Instrumentation Group

The inspection response group must be careful about what they say to the inspector. While making a good impression is important, probably the best approach is for the inspection response group to take is one of firm, and somewhat restrained, politeness.

ask what areas of the facility concerned the inspector most. The company may ask the inspector for any recommendations for improvements at the facility. The company may not want to respond to the inspector until it has assimilated the inspector's comments and the data collected.

An inspection of a facility need not be a traumatic event. Prior planning and the exercise of care during the inspection will help minimize its impact. It is simply part of a company's overall compliance process.

EP

What do you think?

Please indicate your level of interest in this article by circling the appropriate number on the Reader Service Card.

High - 277, Medium - 278, Low - 279.

MERCURY SITE CHARACTERIZATION

*A review of characterization protocols
for mercury-impacted soils at manometer sites*

By Douglas E. Birkbeck, MS and John N. Veenstra, PhD, PE

A potential concern for the natural gas industry over soil remediation at former or current manometer sites appears to be on hold. The U.S. Environmental Protection Agency-proposed Hazardous Waste Identification Rule "Requirements for Management of Hazardous Contaminated Media" *Federal Register*, April 29, 1996, (HWIR-Media) has been taken back for reconsideration and is not scheduled for review for the next two to four years.

Currently each state dictates cleanup levels. For example, Kansas, which has been in the forefront of mercury response actions, set the action level at 2.0 parts per million (ppm) in residential and/or recreational areas for the first foot below grade and 20.0 ppm for any depth below one foot. This 20 ppm level applies for all depths for all other land use classifications.

Under current Kansas Department of Health and Environmental (KDHE) guidelines, when mercury-impacted soils at manometer sites are identified with concentration levels greater than the KDHE action level, a Toxicity Characteristic Leaching Procedure (TCLP) analysis is required to determine if the soil is characterized as hazardous or nonhazardous. The TCLP results are compared with EPA-established guidelines. If the TCLP-derived mercury concentration level exceeds 0.20 ppm (fails TCLP) and exceeds a 260 ppm total mercury concentration level the soil is classified as an EPA-listed hazardous waste D009. This waste would require treatment prior to disposal at an approved Subtitle C hazardous waste landfill. The most accepted best demonstrated available technology (BDAT)

method of treatment is roast and retort.

The roast and retort process is an expensive heating process for elemental mercury recovery that uses heat to volatilize mercury and distillation of the gaseous emissions to recover mercury in the elemental form. If mercury-impacted soils fail TCLP and are less than the

soils may be returned to the site when the total mercury soil concentration levels are reduced to below the KDHE action levels and pass TCLP.

Regardless of the total mercury concentration level, mercury-impacted soils can also be transported for disposal at a non-hazardous Subtitle D landfill if the representative sample does not fail TCLP. However, many pipeline companies are electing to transport mercury-impacted waste soils to Subtitle C hazardous waste landfills to limit potential future liabilities. Acceptance of waste at Subtitle D nonhazardous landfills is less restrictive than at Subtitle C hazardous waste landfills.

Through its interim agreement program and natural gas pipeline industry cooperation, the KDHE estimates between 9,000 and 10,000 current and-or former mercury manometer sites exist in Kansas. In October 1995 KDHE reported that natural gas companies have characterized 3,800 sites, 1,093 of which were contaminated with mercury above the Kansas action levels and 663 that were remediated. Prior to September 1994, the KDHE required companies to conduct total mercury and TCLP laboratory analysis for site characterization. The requirement was based on the Land Ban restrictions, set out under the Resource Conservation and Recovery Act, for mercury-contaminated soil. After that date, KDHE reviewed its earlier ruling and revised it, stating only mercury-contaminated soil that was excavated required TCLP analysis prior to landfill disposal.

Natural gas pipeline companies in Kansas have access to the statistical findings of recent TCLP analytical testing of mercury-impacted soils at current and/or

**The U.S. Environmental
Protection Agency-
proposed Hazardous
Waste Identification Rule
"Requirements for
Management of
Hazardous Contaminated
Media" *Federal Register*,
April 29, 1996,
(HWIR-Media) has been
taken back
for reconsideration.**

260 ppm total mercury concentration level, the impacted soil can be directly transported to a Subtitle C landfill without treatment. One alternate remedial method accepted by KDHE involves treating impacted soils that fail TCLP and have total mercury concentration levels less than 260 ppm by an onsite mobile treatment unit (MTU). Treated

Mercury Site Characterization and Behavior of Mercury in Soil

former mercury manometer sites. If a soil sample fails TCLP and the concentration level of total mercury exceeds 260 ppm, then BDAT is required. As of August 1996, out of 1,093 soil samples analyzed for TCLP, only six failed, requiring BDAT or roast and retort prior to landfill. Soil samples have passed TCLP and exceeded the total concentration of 260 ppm.

Important in statistically evaluating TCLP results of mercury-impacted soils at manometer sites in Kansas is binding capacity of elemental mercury. The im-

pact of elemental mercury releases in soil is specifically related to the forms of mercury present. When a mercury spill occurs, the liquid state of elemental mercury, its high density, high-surface tension and volatility largely control its immediate transport and fate.


Concentrations of mercury and its distribution in soil, surface water and/or groundwater are primarily subject to the metal's physical dissolution or adsorption properties. A soil's capacity to bind mercury depends on the interaction between

mercury and soil constituents. Movement of elemental mercury vapor and the ionic states of mercury in soils may be hindered by the tendency of the mercury forms to bind on to natural organic matter, clays and to a lesser extent, fine-grained minerals. Inorganic mercury compounds and elemental mercury are therefore subjected to more physical controls of their transport and fate.

In reducing environments low in oxygen or with no oxygen, such as water-logged or wet soils, and with an available sulfide source, mercury may be precipitated as a sulfide. A high concentration of mercury sulfide compounds in soil will also decrease the amount organic mercury compounds transformed to the toxic organic form and decrease the leaching rate of the metal.

Mercury in native soils can have a high degree of solubility if the environment is highly oxygenated. Highly oxygenated

COMPLETE LIFT STATION CONTROL.



Non-contacting, ultrasonic measurement and a full range of pump control features make the HydroRanger the choice for total lift station control.

The maintenance-free HydroRanger is easy to install and uses the reliable sealed ST-H transducer and state-of-the-art echo-processing technology to provide the accuracy and reliability you expect from Milltronics.

The HydroRanger costs less to install than floats, bubblers and differential pressure systems. And because the HydroRanger's transducer mounts above the surface of the wastewater, there is no need to empty or enter the wetwell during installation.

Advantages of the HydroRanger:

- Measurement range of up to 33 feet
- Accuracy to +/- 0.25%
- Built-in relays control on/off cycles for up to five pumps
- Controls pump alternation, lead/lag, and other automatic pump cycles
- Totalizes lift station volume throughout and logs pump run times
- Removable programmer eliminates need to open enclosure to calibrate
- Enclosure provides corrosion protection



For a detailed brochure or personal demonstration, call (800) 569-2130, fax (817) 277-3894 or visit our web site at: <http://www.milltronics.com>

MILLTRONICS
Technology based. Customer driven.
709 Stadium Drive East
Arlington, Texas 76011-9870

**As of August 1996,
out of 1,093 soil samples
analyzed for TCLP,
only six failed, requiring
BDAT or roast and
retort prior to landfill.**

soil allows the ionic states of mercury to combine with hydroxyl and chloride ions. Chlorides enter the soil and water from multiple sources—such as agricultural fertilization, de-icing of roadways and naturally occurring saline or sodic soils.

The availability for the leaching of mercury into solution is very unlikely in soils with a high organic matter, clay and mineral content. Except soils with chloride concentrations and pH conditions suitable for the formation of mercury chloride compounds, the leaching of mercury into groundwater is negligible. KDHE findings and natural gas industry efforts support these conclusions.

The objective of mercury manometer site characterization of the soil is to first identify and quantify total mercury concentration levels.

To initiate characterization, a historical review of gas-measurement files comparing positive displacement manometers with orifice meters followed by a pur-

chase order or accounting review should assist in identifying currently owned, leased and/or operated meter and regulating stations. This comparison allows the further identification of manometer locations by section, township, range and county. However, first a field survey that includes a field personnel questionnaire should be conducted to further develop an accurate listing for potential mercury manometer sites to be characterized.

Once the manometer sites are identified, the soil sampling program for manometer site characterization should be conducted by following a series of KDHE-approved procedures, including visual surveys to identify type and condition of meter houses, observations of free mercury, drainage pathways, imported fill material covering native soil, topography, land use, distance to residential or recreational areas and structural deficiencies in the building or flooring (such as cracks and evidence of vegetation growing in expansion joints).

At least three samples are required to characterize a site effectively. Locations with concrete floors, dirt or gravel floors

or former locations where no physical evidence exists are three typical types of manometer sites.

Sampling of meter houses with concrete floors involves collecting a discrete sample 6 inches deep and an additional discrete sample 18 to 24 inches deep at a location perpendicular to the center of the door frame or entrance.

Sampling from a site with gravel or dirt floors requires collection of a sample the same depth beneath the location of the former manometer, as described above. A composite sample from the surface to 6 inches in depth and containing 3- to 4-point aliquots is required at a distance of 3 to 4 feet from the discrete sample.

One discrete sample should be collected from the surface to 6 inches in depth at the estimated former manometer location at sites where no structural fixtures are present, but identification of the meter is apparent. Composite samples containing 3-point aliquots should be collected from the surface to 6 inches in depth at locations 3 feet and 6 feet from the discrete sample.

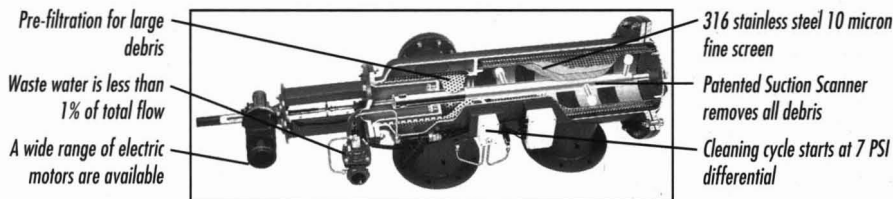
Quality-control measures require a field duplicate for more than 20 samples collected and standard laboratory quality assurance/quality control protocols.

Development of sampling protocols and site-characterization programs similar to the KDHE guidelines would appear effective in identifying elemental mercury release conditions at manometer sites in Kansas. Since conditions for elemental mercury spills at manometer sites are unique, pipeline companies should review their site-specific conditions for determination of their characterization requirements. **EP**

Doug Birkbeck, MS, is a senior environmental engineer and geologist with Burns & McDonnell Waste Consultants Inc. in St. Louis, Mo. John N. Veenstra, PhD, PE, is a professor of civil and environmental engineering at Oklahoma State University, Stillwater, Okla.

The authors would like to thank the personnel of the Hazardous Waste Section, Kansas Department of Health and Environment for their help in providing data.

THE 10 MICRON FILTER THAT DISPOSES OF DISPOSAL COSTS. AUTOMATICALLY.



We've brought Amiad Filtration to a new low. 10 micron, to be precise. It's perfect for particulate removal of algae, bacteria, scale and silt, and excellent as a prefilter for RO systems. Best of all, it cleans itself automatically, with our patented suction scanning system—no expensive bags or

cartridges to replace, no labor and downtime costs, and no expensive disposal costs. Plus, there is no interruption of flow during the cleaning cycle.

Amiad is the best way to get the lowest cost filtration per gallon! Call today for a FREE video.



30 Years of Clear Solutions for Your Filtration Problems

2220 Celsius Avenue • Oxnard, CA 93030 • (800) 969-4055 • (805) 988-3323 • fax (800) PRO-FILTER • fax (805) 988-3313

www.amiadusa.com • email: AMIADUSA@aol.com



Duke Finds That Marine Organism Retards Learning in Animals

The toxic marine organism *Pfiesteria piscicida*, which has killed millions of fish and sickened people in North Carolina and Maryland, also interferes with the learning process in rats, according to a series of studies completed at Duke University Medical Center.

The findings, which appeared in the December 1997 issue of the journal *Environmental Health Perspectives*, are the first published results of scientific

experiments showing exposure to *Pfiesteria* toxin can cause learning deficits.

In the laboratory experiments, toxins produced by the one-celled organism appear to interfere with new learning tasks, but don't impair the memory of previously learned tasks, according to Edward Levin, associate professor of psychiatry and director of the Integrated Toxicology program at Duke.

"The rats exposed to *Pfiesteria* toxin were significantly retarded in their learning," said Levin. "The effect persisted throughout the 10 weeks the ani-

mals were retested after the injection."

Pfiesteria is a type of dinoflagellate, which forms plankton, tiny marine organisms that provide food for many small marine animals. Most dinoflagellates are harmless. However, some dinoflagellates are toxic, producing powerful nerve poisons to deter fish from eating them. *Pfiesteria*, in contrast, uses its toxins to attack and eat fish flesh.

The researchers were prompted to begin the animal study after several scientists accidentally exposed to the organism in a research laboratory experienced a range of worrisome symptoms, including dramatic mental impairment, serious disorientation, mood swings, immune system problems and skin sores.

Since then, doctors at Duke, Johns Hopkins and the University of Maryland found that some people who had been exposed to *Pfiesteria* before or during a *Pfiesteria*-related fish kill showed evidence of neurological problems. Other people have reported burning skin and respiratory irritation, followed by problems with concentration.

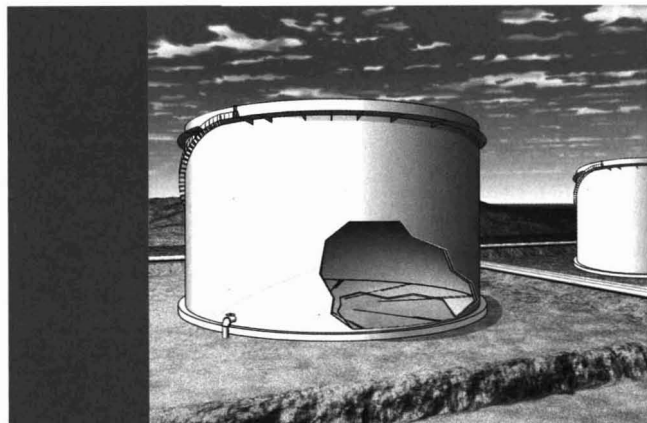
In all reported cases, exposure occurred through inhalation of the toxin, with the majority of those affected working in the fishing industry.

Electrical Fields Could Clean Oil-Contaminated Soil

A pilot demonstration of a novel environmental technology that uses electrical fields to help clean soil contaminated by oil spills and other petroleum-based chemicals and hydrocarbons is underway by Electrokinetics, Inc., Baton Rouge, La., and Argonne National Laboratory, Argonne, Ill.

The technology, called electrokinetic soil processing, applies electric fields to contaminated soil to enhance the delivery of injected nutrients that help natural biological organisms degrade hydrocarbons. Researchers are conducting pilot demonstrations in the field to evaluate the enhanced bioremediation action by electrokinetics.

In the project's first phase, researchers are injecting nutrients into the soil to study their movement through different layers. These tests use layers of clean soil types with different permeabilities such as sand, silt and clay taken from U.S. Department of Energy sites, such as the Idaho National Engineering Laboratory, Idaho Falls, Idaho, or the Westinghouse Savannah River Company Facility, Aiken, S.C.



TRACER INTEGRITY MANAGEMENT PROGRAM

NEW! A comprehensive integrity management program for aboveground storage tanks and piping to help prolong integrity, increase productivity and protect your bottom line.

TRACER TIGHT® TANK AND PIPELINE INTEGRITY TESTING
Proven Reliability without Service Interruption

AUTOMATED LEAK MONITORING

CATHODIC PROTECTION
Design, Installation and Continuous Monitoring of Industry Preferred Undertank Systems

MAINTENANCE SERVICES
Cleaning and Inspection to API Standards, Hydrotesting and Internal Pipe Inspections

ENVIRONMENTAL SAMPLING AND ANALYSIS

SYSTEM LIFE CYCLE ANALYSIS
Mean Time to Failure Predictions

Tracer Research Corporation
800-394-9929

Argonne and Electrokinetics will evaluate the data and results from these tests. If the tests are successful, funding could be made available to use electrokinetic injection for the bioremediation of contaminated soil at the same DOE sites. This one-year project was funded by DOE's Small Business Innovation Program.

3D Visualization Software to Help with Information Overload

Starlight, an advanced three-dimensional visualization technology, has been developed by Pacific Northwest National Laboratory in Richland, Wash., to help solve the problem of information overload in decision-making.

"Advanced data sources and rapid communication technologies generate massive collections of information rich with facts. However, such an information overload can hide critical details and subtle relationships that are integral to effectively interpreting the data," said Randy Woodson, Pacific Northwest program manager. "Starlight provides an easy-to-use interactive tool for exploring and integrating data needed for effective decision-making.

"For example, an organization like the Centers for Disease Control could use Starlight to help assess potential public health effects that may result from global warming," Woodson said. "Starlight could enable CDC analysts to search and interpret massive and diverse amounts of information on global warming trends."

The U.S. Environmental Protection Agency could also use the technology in its comparison of the compliance of Superfund sites to environmental regulations. Currently there are 1,200 designated Superfund sites in the nation and thousands of other potential sites.

"The versatility of Starlight enables users to analyze massive volumes of information contained in various media, including structured and unstructured text, maps, digital data, video and even satellite imagery," said John Risch, Pacific Northwest principal researcher. "Users can analyze both information content as well as complex interrelations among individual elements of large information collection."

Starlight, which operates on Windows NT platforms, has two functional components. The first is an information preprocessing and modeling system. This component characterizes information content, models associations

among input data elements and stores the modeled information for later retrieval and analysis.

The other component is a visualization system/user interface, which is used during exploratory analysis of the information model. Collections of information are graphically represented as sets of 3D shapes, or glyphs, distributed throughout the 3D work space.

Each glyph stands for an individual piece of information, such as a document or news-wire report. Topically related items form groupings, or clusters, provid-

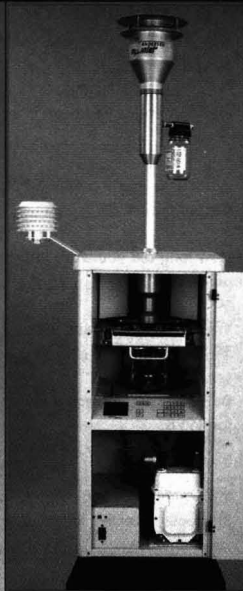
ing a graphical table of contents to guide general browsing. Analysts can interactively navigate the clusters internally to inspect local conceptual interrelations, or they can view the entire collection to get a sense of general trends in the information.

Already in use by the U.S. intelligence community, Starlight can be applied to a variety of other fields, such as medical data analysis, environmental security and current events monitoring.


For more information on Starlight, contact Randy Woodson at phone: (509) 372-6420 or e-mail: randy.woodson@pnl.gov.

TO DATE - THE LARGEST SUPPLIER OF FRM INSTRUMENTS TO EPA


AMBIENT SAMPLER




RAAS 2.5 FRM SAMPLER



RAAS FRM
MULTI-FILTER
SAMPLER



RAAS 2.5 FRM
SINGLE FILTER
SAMPLER



RAAS 2.5 FRM
AUDIT SAMPLER

ONLY FRM SUPPLIER TO BE FIELD TESTED AT ALL 7 EPA SITES!

CALL TO RECEIVE A COPY OF EPA REPORTS

ANDERSEN

GRASEBY

ISO 9001

...setting the standard in PM2.5 Sampling

500 TECHNOLOGY CT. • SMYRNA, GA 30082 USA
800.241.6898 • FAX 770.319.0336 • WWW.GRASEBY.COM

Environmental Protection 1998 Salary Survey



Please check the appropriate boxes and mail or fax your response by April 15, 1998 to Angela Neville,
Editor-in-Chief, *Environmental Protection*, 5151 Beltline Road, Suite 1010, Dallas, Texas 75240. Fax (972) 687-6799.

Which of the following job titles best describes your current position?

- ☐ Project Manager ☐ Trainer
☐ Scientist ☐ Engineer
☐ Consultant
☐ Regulatory Compliance Specialist
☐ Health/Safety Supervisor
☐ Other (please specify) _____

Which of the following describes your workplace?

- ☐ Manufacturing ☐ Utility
☐ Government ☐ Academia
☐ Municipal Landfill ☐ Consulting Firm
☐ Water Treatment Facility
☐ Other (please specify) _____

As a part of your job, in which of the following areas do you specialize?

- ☐ Hazardous Waste ☐ Solid Waste
☐ Air ☐ Health/Safety
☐ Water/Wastewater
☐ Other (please specify) _____

City and state in which you work:

What is your gender?

- ☐ Male ☐ Female

Age:

- ☐ 29 or younger ☐ 30 to 39
☐ 40 to 49 ☐ 50 or older

How long have you been with your present company?

How long have you been in your current position?

What was your job title just prior to your current position?

How long did you work in this previous position?

What will your annual gross salary be for 1998? (Please estimate if you are not sure.)

Do you expect to receive a bonus/incentive for 1998?

- ☐ Yes ☐ No

If so, what do you estimate the amount of the bonus/incentive to be? (Please give a range if you are not sure.)

How many full-time personnel do you supervise?

- ☐ 1 to 5 ☐ 6 to 10
☐ 11 to 20 ☐ 21 to 50
☐ 51 or more

Highest educational degree:

- ☐ High school ☐ Bachelor's
☐ Master's ☐ Doctorate
☐ Other (please specify) _____

Certifications:

- ☐ PE ☐ PG ☐ REM
☐ CHMM ☐ CET ☐ CIH
☐ CSP ☐ REA ☐ CEP
☐ QEP ☐ DEE
☐ Other (please specify) _____

How many years of environmental work experience do you have?

- ☐ 0 to 5 ☐ 6 to 10
☐ 11 to 20 ☐ 21 or more

Give us your comments about current trends you see impacting environmental professionals' salaries. Your comments may be published as part of our salary survey article.

Name: _____

Telephone: _____

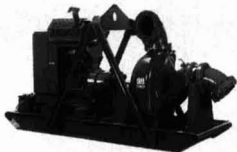
All responses are confidential. Thank you for participating.

If you are willing to be interviewed for an article on salaries, add your name and phone number.

new products *Compiled by Kristie Guillotte and Ingrid Truemper*

Centrifugal Pump

Model T10A3-B-4045T is constructed of cast iron. It has



a tungsten titanium carbide-faced mechanical seal and ductile iron open type, two-vane impeller. Key features include a removable coverplate designed for access to the impeller without removing hoses and a 54.7-gallon fuel tank for extended running. Gorman Rupp Co.

Circle 200 on card.

Personal Gas Monitor

The newest member of the FoxTox series of personal gas



monitors, the FT-4, is a four-gas analyzer that detects oxygen, combustible gas and up to two toxic sensors. Toxic gas sensors are interchangeable and allow other sensors for carbon monoxide, hydrogen sulfide, sulfur dioxide, nitric oxide and more. Foxboro.

Circle 201 on card.

Calibrator

The CL506 calibrator features portable lightweight con-



struction, a long-life battery, digital interfacing and I/O capabilities. It also includes simulation and measurement for PT 100 NI 100 RTDs and 15 thermocouple types, as well as generation and measurement of mA, mV, V and ohm signals. Omega.

Circle 202 on card.

Storage Building

Model 1610FS FireShield™ is a prefabricated, relocatable



building for the storage, handling and use of flammable and combustible liquids and hazardous materials. The 2-hour fire-rated building is designed to accommodate up to 28 55-gallon drums in its 112-square-foot storage area. Safety Storage Inc.

Circle 203 on card.

Safety Area Monitor

The Safety Area Monitor single-gas fixed monitor is in-



tended for use in any area needing continuous safety verification. It monitors for toxic gases or oxygen levels. The unit is operated with color-coded tactile membrane switches and offers complete sensor interchangeability. Lumidor Safety Products.

Circle 204 on card.

Safety Spectacles

The 5500 UFO Galaxis was designed to look like a spectacle but protect like a goggle. Its design features direct and

TAKE CONTROL OF SUBJECT PROPERTY LOCATION.



STARVIEW™. FULL CONTROL. INSTANT REPORTS. NO MODEM. NO HASSLE.

STARVIEW™ software provides immediate desktop access and total control over environmental report production:

- Verify and precisely locate subject property locations.
- Define custom search criteria or use ASTM standards.
- Create reports anytime—24 hours a day, 7 days a week
- Reduce expenses with affordable annual licensing fees
- Windows compatible CD-ROM

"STARVIEW" puts the control and the choices where they belong, at PEER."

Dave Vieau, president, PEER Environmental & Engineering Resources, Inc.



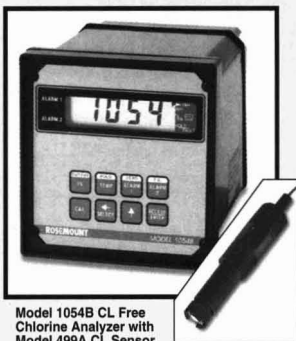
Free Risk Assessment Products Directory Call (800) 767-0403

VISTA

VISTA INFORMATION SOLUTIONS INC.
5060 SHOREHAM PLACE, SAN DIEGO, CA 92122
WWW.VISTAINFO.COM

Clean Deal

No Hassle Chlorine Measurement



Model 1054B CL Free Chlorine Analyzer with Model 499A CL Sensor

Sampling Systems are expensive and break down. Replacing reagents *costs time and money*. You don't want to deal with them and we don't think you should. Rosemount Analytical, Uniloc Division offers an inexpensive on-line analyzer for automatic measurement and control of free chlorine. This means you can get a continuous record of your chlorine residual and control disinfection both easily and economically.

The **Model 1054B CL** Analyzer has been extensively field tested in applications just like the ones you have. It uses an easy to maintain, Model 499A amperometric sensor that installs directly in a process line or in a low-flow assembly. Startup can be as simple as connecting the sensor cable and entering the numerical value on the sensor tag into the analyzer. Later calibration using DPD or other titrations are also supported.

The **Model 1054B CL** offers many features:

- Automatic temperature compensation
- Automatic pH compensation
- .001 ppm resolution display and
- User selectable filtering for low noise or rapid response.

Save yourself *time and money*, eliminate those unnecessary reagents and get a continuous reading instead!

ROSEMOUNT ANALYTICAL

FISHER-ROSEMOUNT "Managing The Process Better."

Rosemount Analytical Inc., Uniloc Division
2400 Barranca Parkway, Irvine, CA 92606 USA
Tel: (714) 863-1181 <http://www.RAuniloc.com>

Circle 62 on card.

new products

indirect ventilation while its pliable one-piece frame hugs the face for wrap-around protection. The Galaxis offers peripheral vision and shielding from flying particles. Available in several shades. H.L. Bouton Co. Inc.

Circle 205 on card.

Wastewater Sampler

The Global Wastewater Sampler WS300 is designed



specifically to meet the sampling requirements for industrial discharges, sewers, rivers and streams. It takes a "time-weighted" composite sample in a 2-gallon bottle, to meet the wastewater sampling guidelines. Also provided is a sample pickup hose and a battery charger. Global Water.

Circle 206 on card.

Internet Services

RegScan Inc. offers Internet-based services. Subscribers can



browse, search and read the most current full text regulations from EPA, OSHA, DOT, FDA and the *Federal Register*. The Web site address is www.regscan.com. RegScan Inc.

Circle 207 on card.

Stack Emission Monitor

The Testo 360 is a portable stack emission monitor with RATA accuracy. It can measure



NO_x, CO, SO₂, CO₂, O₂, H₂O, fpm, number per HR and F. Its accuracy meets standards of 40 CFR App. A, B and 40 CFR 75 Subpart C for backup monitors. The system consists of a notebook computer, an analyzer unit and probes. Testo Inc.

Circle 208 on card.

Product Interface Probe

Model 122 Interface Meter is 1/2-inch in diameter and can

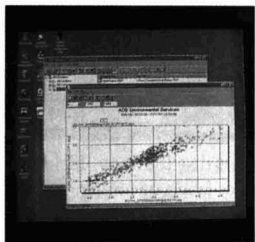


be used for narrow drive-in equipment and 1-inch wells. It measures the depth and thickness of non-aqueous product layers in monitoring wells and tanks. Batteries give 120 hours of use and are located in easy-access drawers in the faceplate. Solinst Canada Ltd.

Circle 209 on card.

Sewer Flow Software

Profile™ is a Windows-based software that allows users to transform sewer-flow monitoring data into collection system management information. Users can perform data management on large volumes of flow data, as well as flow quan-



tification, system performance analysis and report generation. ADS Environmental Services.

Circle 210 on card.

Robotics Chamber

The Robotics Chamber is designed for automated pro-



cesses and delicate or hazardous procedures. The HEPA filter removes .03-micron size particles. The positive-pressure enclosure tent surrounds experiments in Class 100 air. Includes three-way viewing and access capabilities. Available with ULPA and carbon filtration systems. HEMCO Corp.

Circle 211 on card.

Interface Level System

Model 2505 was specifically designed for large plants with re-



quirements for multiple interface level monitoring and/or control instruments. A digital display of the interface on the analyzer and a retrievable clarifier profile allows the operator to observe the visual condition of the clarifier. Royce Instrument Corp.

Circle 212 on card.

Flowmeter

The Flo-Tote™ II Portable Electromagnetic Open Channel



Flowmeter features a robust, non-fouling sensor; Auto-Cal™ to eliminate the need for site calibration in most cases; a Q-Stick™ band-sensor insertion tool for no-manhole-entry installations; and an ATC Level™. Marsh-McBirney Inc.

Circle 213 on card.

Industrial Equipment

Each industrial equipment package is custom-designed to provide specific solutions to process treatment needs for oil, solids, heavy metals, soils, groundwater and organic and pH controls, including packages for industrial wastestream pretreatment. Engineer design assistance is available. GeoPure Systems & Services Inc.

Circle 121 on card.

Environmental Software

EQuIS® for Windows is software used in the EQWin™ environmental data management system. It manages the chemistry and geology required to support decisions regarding site analysis. It interfaces to three-dimensional visualization, GIS, CAD, statistics and other software. EarthSoft®.

Circle 115 on card.

Safety Spectacles

The Uvex Bandit™ has a patented replaceable single-lens design with integral sideshields and browguards. The dual-lens look provides protection. It meets ANSI Z87.1-1989 standards, provides 99.9 percent UV protection and is available in a variety of tints. Uvex Safety.

Circle 214 on card.

Spill Kit

The universal spill kit from Thomas Scientific contains pH Nine, an all-purpose acid/base

**WE HELP YOU
MANAGE RISK
BEFORE IT
AFFECTS YOUR
BOTTOM LINE**



Where can you find environmental liability insurance that can help your firm become more productive?

Look to CNA/Schinnerer. We put a wealth of resources in your hands so you can manage risk before it affects your bottom line.

We'll review your professional service contracts, identify liability issues and insure the risk properly. Through our newsletters and web site, we'll provide information you can use to help minimize your exposure to risk. And, of course, these services are provided to all our insureds at no extra charge.

So contact your independent agent or broker, or call Schinnerer today for more information at **301-961-9800**.

Victor O. Schinnerer & Company, Inc. Two Wisconsin Circle, Chevy Chase, MD 20815-7022. Phone: 301-961-9800. Fax: 301-951-5444. Coverage provided by Continental Casualty Company, one of the property-casualty companies of CNA. CNA is a registered service mark of the CNA Financial Corporation. This ad is not a contract. Only the policy can provide the actual description of terms, coverages, amounts, conditions and exclusions.

Victor O.
Schinnerer
& Company, Inc.

CNA

new products

neutralizer as well as an organic absorbent. The kit is designed specifically for laboratory use and contains enough pH Nine to neutralize, clean up and safely dispose of 2 to 6 quarts of acids, 1 to 3 quarts of base or 2 to 6 quarts of organic solvent/hydrocarbons. **Thomas Scientific.**

Circle 215 on card.

Perforated Rolls

Tear Perforated Rolls into small, easy-to-manage pieces



without sharp blades. Oil Only Roll absorbs common industrial fluids while repelling water, Static Resistant Roll cleans up oil and flammable liquids by reducing static

charge build-up and Universal Roll can be used for common and hazardous fluid absorption. **Breg International.**

Circle 216 on card.

Container Handling

The Dumpster-Veyor[®] is a container-handling system designed to evenly distribute material into a roll-off container. Containers are unloaded from a truck, then powered back and forth for



even distribution. Helps reduce labor, operating, maintenance and building costs. **Cordell and Associates.**

Circle 217 on card.

Gas Transmitter

The GasPlus-IR is an infrared combustible gas trans-



mitter. There is no risk of sensor poisoning, no sensor saturation, no oxygen required for operation, no reductions in sensor life from exposure to gas, continuous monitoring, faster response time and fewer effects from temperature and humidity. **EIT.**

Circle 218 on card.

Gas Instrument

The SA 2000 four-gas portable instrument displays peak



sensor readings, along with the lowest oxygen reading detected by the instrument. It also can be programmed to display Spanish language prompts, in addition to standard English prompts. The instrument has a

EQuIS[®] for Windows & Geology

**Simply the Best
Environmental
Data Management
System Available**

Contours like these are 8 keystrokes away!

Graphs and Reports like these are easily produced in Excel or other tools!

Advanced GIS and 3D visualization exports like these are mouse clicks away!

With interfaces to:

- GIS
- CAD
- Report Writers
- Labs and HAZSites
- **EQuIS for Windows**

contains all the fields and relationships necessary to accurately manage environmental data.

All the Geology and Chemistry Data for

- Site Remediations
- Risk Assessments
- Field Characterizations
- Remediations can be stored in **EQuIS**.

Starts at \$1,000

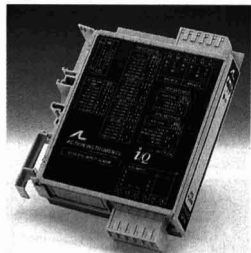
EarthSoft, Inc.
(800) 649-8855
<http://www.earthsoft.com>

low battery and sensor replacement message. **Scott Health & Safety Products.**

Circle 219 on card.

Alarm

The Model Q116 RTD Input Dual Limit Alarm with

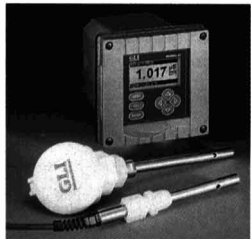


Touch Sample™ technology is a high-density, field configurable DIN rail-mount device. It accepts most RTD input types and provides two relay output functions. The input range is configured via dip switches to maximize set-point resolution. **Action Instruments.**

Circle 220 on card.

Conductivity Analyzer

The Model C53 has two sensor inputs that can be inde-



pendently configured to measure conductivity, resistivity or total dissolved liquids. It accepts the Model 3400 series Enhanced Performance Conductivity Sensor and others. The Dry Calibration™ method provides accuracy across the conductivity ranges of ultra-pure water to two Siemens. **GLI International Inc.**

Circle 221 on card.

Oil Absorbant

Wesorb-Oil-Klean is a compound of natural fibers treated to absorb oil and is water re-

pellent. Chips can be vacuumed with the spilled product. The natural fibers biodegrade at approximately the same rate as petroleum fibers in a landfill. Available in mats, booms, chips, swabs, mini-paks and custom-paks. **Wesorb Corp.**

Circle 222 on card.

Interactive Training

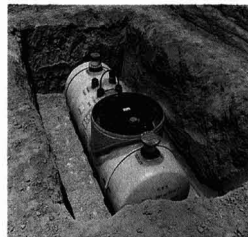
Training on a Disk is an interactive training system. Each course was developed by a

team of instructional designers, educators, computer technologists, Certified Safety Professionals and Certified Industrial Hygienists. Uses include reducing administrative, scheduling and recordkeeping problems. **BNA Communications Inc.**

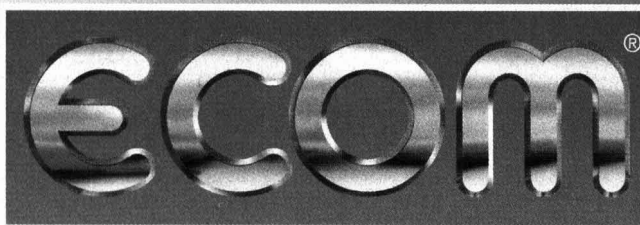
Circle 223 on card.

Oil/Water Separator

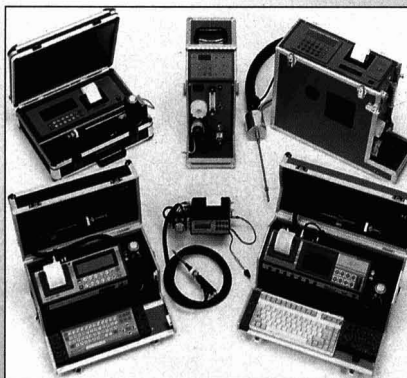
Fluid Containment Oil/Water Separator Systems pro-



vide corrosion resistance and meet performance requirements of oil/water separators under Subject 2215, Outline



The Leader in Portable Emission Analyzers



- O₂, CO, NO, NO₂, SO₂, CxHy measurements
- Easy to Use
- Reliable Accurate
- Built for tough environments
- Optional Sample Conditioning
- Meets State & Federal Regulations

ECOM America offers a wide range of instruments for the measurement of emissions from Boiler, Burner and Engine Applications.

Call for Free Literature or a Demonstration Today!

ECOM America Ltd.

3075 Breckinridge Blvd. #420 • Duluth, GA 30096

Phone (770) 806-0220 • Fax (770) 806-0120

Visit our Web Site at www.ecomusa.com

new products

of Investigation of oil/water separators. The systems are designed to process contaminated stormwater runoffs from fuel stations, airports and parking lots. Underwriters Laboratories Inc.

Circle 224 on card.

Modular Tank

ModuStor tanks hold wastewater, potable water, sewage, sludge, slurries and other liquids. The tanks are



bolted together from modular components with standard hand tools. Dozens of standard sizes and custom sizes are available. Options include liners, covers, drains and more. Modu Tank Inc.

Circle 225 on card.

Velocity Analyzer

The portable Quattro Flow velocity analyzer is density



compensated and provides readings for altitudes up to 10,000 feet. The full package consists of a lightweight measurement instrument with four sensor ports, a choice of low-profile or clip-on ruggedized interchangeable AFS airflow sensors and an optional printer. Cambridge AccuSense Inc.

Circle 226 on card.

Transportable Analyzer

When the HNU Model 311 Transportable Analyzer is cou-

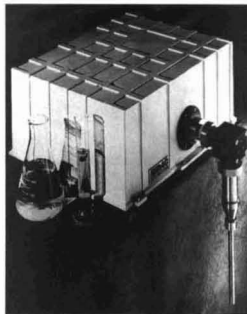


pled with the Model 650 Sparging System, ppb levels of a variety of VOCs in water can be measured. The analyzer is capable of performing spot checks for waste treatment, municipal treatment and industrial effluents. HNU Systems Inc.

Circle 227 on card.

Spectrometer

The I Series Industrial FTIR spectrometer systems are de-



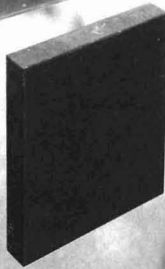
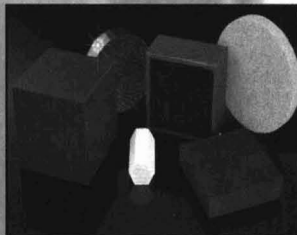
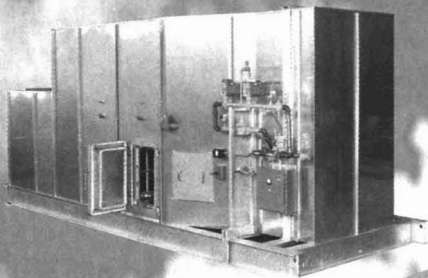
signed for on-line, at-line and near-line QC applications. Each system contains a 0.5-centimeter to 1 FTIR spectrometer in a hermetically sealed enclosure. Sampling accessories attach to the front of the instrument. The systems are controlled with a computer. Midac Corporation.

Circle 228 on card.

VOC Destruction Guaranteed

ADCAT™ VOC Catalyst New or Retrofit Systems

- "Zero Pollution" Capability.
- Customer Service is our Highest Priority.
- Lower Capital and Lower **TOTAL ENERGY** cost (Fuel & Electricity) than RTO.



Reach the Goal Line

Goal Line Environmental Technologies
2045 East Vernon Avenue, P.O. Box 58324
Los Angeles, California 90058
Tel. (213) 233-2224, Fax (213) 233-7428



GOAL LINE
ENVIRONMENTAL TECHNOLOGIES

Portable FID

The Model 680 HVM is a fully integrated fugitive emis-



sions monitoring solution. The three-key interface is ideal for fugitive emissions, hazwaste, spill response and industrial hygiene monitoring. It integrates a highly sensitive flame ionization detector, data logger and optional laser bar code scanner. Thermo Environmental Instruments Inc.

Circle 229 on card.

Gas Dryer

Perma Pure® gas dryers remove water vapor from gaseous



samples without altering the analyte gas concentrations. Drying is a self-regenerating, continuous process. No routine maintenance is required because the dryers are ruggedly constructed, with no moving parts and high corrosion resistance. Perma Pure Inc.

Circle 230 on card.

Polishing Reactor

The Lemna polishing reactor is ideal for supplemental



BOD and ammonia-nitrogen polishing. The LPR can be built to utilize any existing in-

frastructure or be incorporated into a new design to provide treatment results as low as 10 mg/BOD and 1 mg/l NH₃-N. Lemna USA Inc.

Circle 231 on card.

Self-Sustaining RTO

The Combu-Changer® Regenerative Thermal Oxidizer System supplies 70,000 scfm process with 98 percent emission efficiency and 95 percent heat recovery. Stack, fans and



sound-reduction equipment are available. It is self-sustaining with the process heat contribution. ABB Air Preheater Inc.

Circle 232 on card.

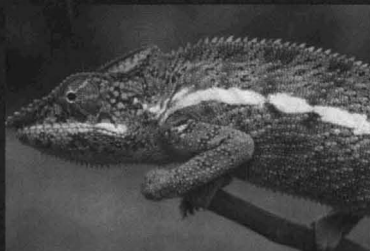
Regenerative Oxidizer

Compressed into an 8-foot-by-12-foot frame, the MAC-



Therm module handles gas flows of 500 to 10,000 scfm with VOC concentration as low as 1/2 percent. It has no flow control valves or dampers with start up under 15 min-

We're changing!



You've always looked to Det Norske Veritas for world-class training and management systems auditing. We've recently expanded our scope to include a wide range of advisory services addressing safety, health, environmental and quality issues.

Are you ready for a change too? Change with DNV.

Advisory Services
Management Systems Auditing
Implementation Assistance
Benchmarking
Customized Programs
Educational Materials



DET NORSKE VERITAS (U.S.A.), Inc.

Loss Control Management

3805 Crestwood Parkway, Suite 200

Duluth, Georgia 30096

800.486.4524 770.279.0001

www.dnvda.com

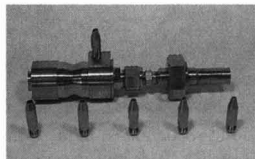
new products

utes. Roof mounting next to existing stack is available. ARTCO Marketing.

Circle 233 on card.

Cyclone

The PM-2.5 In-Stack Cyclone performs aerodynamic removal of particulate above 2.5 microns. Each Cyclone set is available in Teflon or stainless steel and includes a 25-millimeter filter holder and a set of 6 nozzles in a foam lined



carrying case. Environmental Supply Company Inc.

Circle 234 on card.

Grinder Pumps

The Series KG grinder pumps feature a shredding rotor with



steel blades that revolve within a stationary cutting ring to grind suspended solids and fibers. The shredding action minimizes particle size and per-

mits the use of small diameter discharge pipes necessary for a low flow, high head pressurized transport system. Pumpex Inc.

Circle 235 on card.

Adsorbers

High Pressure Liquid Phase Adsorbers treat contaminated

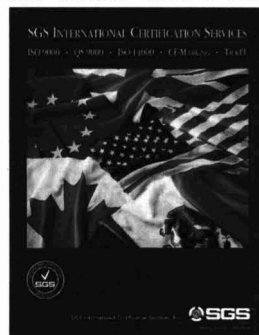


groundwater and wastewater. Single units that handle flow to 100 gpm and 75 psi are available. The units are constructed of fiberglass-wound epoxy resin. Adsorbers provide a broad range of chemical resistance. Carbtrol Corp.

Circle 236 on card.

Certification Services

SGS International Certification Services offers a net-



work of worldwide offices to minimize registration costs for multisite and international clients. Accredited ISO 9001, 9002 and 9003, QS-9000, BS-7750 and ISO 14001 registrations are available. Software, training and CE marking are available. SGS International Certification Services Inc.

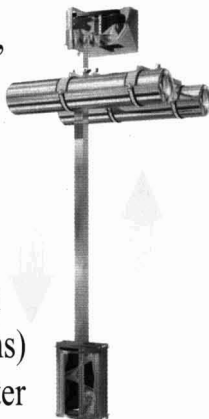
Circle 237 on card.

Meeting All WWT Applications FROM TOP TO BOTTOM



S&N AIROFLO IS "PURPOSE-BUILT"
To Maximize Both Oxygen Transfer And Mixing
While Minimizing Both O&M And Electrical Costs!

S&N AIROFLO's
Series of 'Low-Speed'
Aeration Equipment
Meets Both
Shallow and Deep
WWT Applications
(Lagoons • Oxidation
Ditches • Aerated Basins)
with Large Volume Water



S&N AIROFLO™

**CONTINUOUS-DUTY/
CORROSIVE-DUTY**
Hot-Dipped Galvanized
With Stainless Steel
And Bronze Components.
3HP, 5HP, 10HP, and
15HP Surface Piercing
Horizontal Rotor-Type
(SPHR) Floating
Aerators.

MORE SAVINGS

- Less HP Requirements
- Less Capitalization per HP
- Lower O&M Costs
- Lower Energy Costs

**MORE OXYGEN
MORE MIXING
LESS HP!**

S&N AIROFLO
P.O. Drawer 1994
Greenwood, MS 38935-1994
800.844.4524
800/761.4442 Fax
www.airoflo.com
etatum@airoflo.com

S&N MAXFLO™ Mixer

The Only Mixer Providing
"3-in-1" Hydraulic Connections

- Top-to-Bottom
- Bottom-to-Top
- Horizontal

Adjustable to Operate
at Various Angles

PUMPING OVER +10,000GPM



The Most Efficient Name In Aeration.

Flowmeter

The DryCal model CD Lite is a dry primary flowmeter



that is lightweight and compact for use in industrial hygiene, environmental and laboratory applications. It is immune to flow source pulsation without the need for in-line dampers. BIOS International.

Circle 238 on card.

Water Evaporator

Evaporation is the only disposal method available that disposes of the water component in water-based waste streams and separates oil for

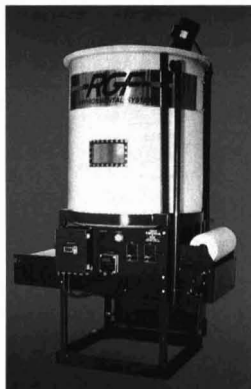


recycling. Designed for fully automatic, 24-hour unattended use with a wide range of evaporative rates and fuel sources. Samsco Inc.

Circle 239 on card.

Treatment System

The ESP 250 is designed for the treatment of wastewater from a variety of operations, including latex or paint and die manufacturing, silk screen printing, photo emul-



sions and more. It is available in both manual and automatic and can process up to 500 gallons of water per hour. RGF Environmental Systems Inc.

Circle 240 on card.

D-Line Instrument

The Scott D-Line instrument is used for methane and natural gas detection in utility



and construction-related applications. It features a tough aluminum-casted case and an impact-resistant plastic battery compartment. D-cell batteries power the instrument. Scott Health & Safety.

Circle 241 on card.

Air Sampler

The Air Sampling G.C. has a PID detector and a simultaneous FID/DELCD detector system. VOCs in air are sucked through the built-in concentrator using the software controlled vacuum pump and then desorbed automatically into

If you're not reading Stevens' newsletters... you should be.

If you need to keep on top of the latest environmental news coming out of Washington, D.C., you should be reading Stevens' newsletters. We track legislation and provide timely, comprehensive and objective reporting on areas that concern you most: Environmental Protection, Air Quality, Hazardous Materials, Water Management and Water Pollution.

We understand that you need the most current information possible. That's what we're here for.

Stay informed.
You can't afford not to.
Call today.

(972) 687-6700

Environmental PROTECTION NEWS

Total Confidence in VOC Monitoring

Is the tool you are using for VOC monitoring free from response to interferences? In all of your applications? The PE Photovac Voyager Portable Gas Chromatograph separates interferences from the compound(s) you need to measure. And because the Voyager is lightweight (under 15 lb./7kg), and is intrinsically safe, you can take it, easily, to your samples, no matter where you need to go. Total Confidence. Easy. PE Photovac. Contact us for details. Today.

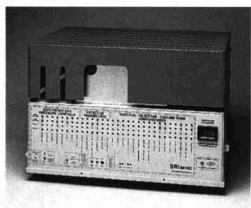
Take it. Easy.

PE PHOTOVAC



761 Main Ave, Norwalk, CT 06859
Tel: 203-761-5330 • Fax 203-761-2677
pvcmtng@perkin-elmer.com

new products



the GC where detection is performed at ppb and ppt levels by three series mounted detectors. **SRI Instruments.**

Circle 242 on card.

Liquid Analyzer

The Modbus digital output protocol has been added to

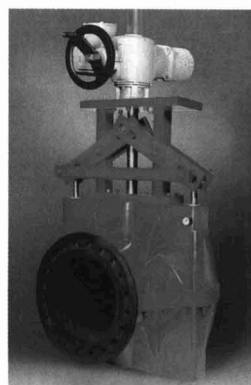


the Model 2700 SoluCube® multiparameter liquid analyzer. Available in 1/4 DIN size, the SoluCube accommodates up to 8 sensor inputs measuring pH, ORP, conductivity, resistivity, temperature and percent concentration. **Rosemount Analytical Inc.**

Circle 243 on card.

Pinch Valve

The Series 5400 Control Pinch Valve features centerline



closure, compact size, enclosed mechanical parts and accurate, repeatable variable venturi flow control. The valves are available in sizes of 4 inches to 36 inches with linear, pneumatic or electropneumatic positioners. **Red Valve Company Inc.**

Circle 244 on card.

Shredder

The Super Shredder™ consumes rags, plastics, wood



and cans, eliminates clogging in pumps and valves and prevents premature failure of other major equipment. Features include stainless wetted interior construction, mechanical seals, precision tapered roller bearings, oil bath lubrication and more. **Franklin Miller Inc.**

Circle 245 on card.

All-Round Beveler

The TKF 700-0 is a powerful, all-round machine that can be used in vertical, horizontal or inverted positions. It weighs 12 pounds and is adept


Wolverine
 Catalytic Oxidizers • Thermal Oxidizers • Regenerative Oxidizers • Rotary Concentrator Systems

MEMO

TO: POLLUTION CONTROL PROJECT TEAM

FROM: DENNIS & MIKE

RE: WOLVERINE (MASSACHUSETTS) CORPORATION

MIKE AND I VISITED A FEW WOLVERINE INSTALLATIONS TODAY, TOURED THEIR FACILITY AND MET WITH COMPANY MANAGEMENT. WE WERE VERY IMPRESSED. THE FOLLOWING SUMMARIZES OUR FINDINGS AND OUR RECOMMENDATION.

WOLVERINE OFFERS -

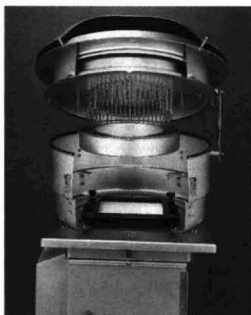
- IMPECCABLE REFERENCES (EXPERIENCE/QUALITY/SERVICE)
- DEDICATED STAFF OF EXPERIENCED PROFESSIONALS
- ABILITY TO CUSTOMIZE THEIR EQUIPMENT TO FULFILL OUR NEEDS
- EXPERT STAFF TO MANAGE THE INSTALLATION FOR US
- HIGHEST QUALITY AND BEST VALUE IN THE INDUSTRY

WE'RE CONVINCED THAT NOBODY WILL WORK HARDER FOR US.

RECOMMENDATION: BUY FROM WOLVERINE




Circle 71 on card.



at processing pipes, sheets with internal cutouts, curved edges and deburs sheets and metal work pieces. Trumpf Inc.

Circle 246 on card.

Gasoline Vapor Recovery

The Recogen Unit recovers gasoline vapors by using a small amount of the vapor to fuel a generator which in turn powers the unit. The generator operates the unit by using 15 percent of the vapors and sav-

ing the other 85 percent for reuse. The Recogen Unit meets all government regulations. Edwards Engineering Corp.

Circle 247 on card.

Hose

The Fluoroflex® DLH hose has a convoluted inner liner of



Dupont Tefzel® ETFE fluoropolymer resin within a non-convoluted liner of Dupont Teflon® PTFE fluoropolymer

OZONIA
THE CLEAN TECHNOLOGY

High Endurance/ Low Cost

Ozone Generators

NEW

- Up to 15% concentration from Oxygen (5% FROM AIR)
- Non-glass dielectrics (VIRTUALLY UNBREAKABLE)
- Compact design
- Easy installation
- Standard models start from 18 gr./hr. up to 525 lbs./day
- Full line of accessories available
- Medium-pressure UV systems available



OZAT CFS


<http://www.ozonionorthamerica.com>

Ozonia Around the World


OZONIA LTD
Switzerland


OZONIA
France


OZONIA TRIODEN
Scotland


CHAMP OZONE CO., LTD.
Korea


OZONIA GUANGZHOU
China



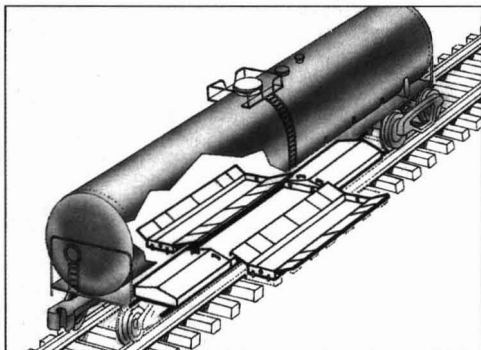
**OZONIA
NORTH AMERICA**
491 Edward H. Ross Drive
P.O. Box 455
Elmwood Park, NJ 07407
USA

Tel.: 201-794-3100
Fax: 201-794-3358

Ozonio® products are available in countries all over the world. Please contact us for details of your representative.

Circle 73 on card.

Railroad Track Spill Containment



The Ounce of Prevention to Preclude a Ton of Headaches!

Unique, Relocatable Spill Containment Pans with Rolling Raincovers. Opens When You Need It and Closed and Locked When Not Needed.

Avoid Collecting Snow, Rainwater and Debris!

Lower Your Environmental Liability!

**TRANS
ENVIRONMENTAL
SYSTEMS, Inc.**

P.O. Box 40163
Cleveland, Ohio 44140

800-220-2466

216-871-3214

FAX 216-871-3414

hnu hnu hnu hnu hnu hnu hnu hnu

Need a high performance,
low cost XRF?

Call hnu®

Table-top XRF analyzer :

- Small footprint XRF takes up two square feet of bench space.
- Detectors: Peltier-cooled electronic Si(Pin) detector (240 eV) or liquid nitrogen cooled Si(Li) detector (165 eV).
- Simultaneous analysis from Sodium to Uranium.
- Windows®-based XRF software for quantitative and qualitative analyses.



1973-1998
Twenty-Six Years
PIONEERS IN PHOTOIONIZATION AND
X-RAY FLUORESCENCE

For Additional Information:
(800) 724-5600

hnu

HNU SYSTEMS, INC., 160 CHARLEMONT STREET, NEWTON, MA 02161-9987 USA
(617) 964-6690 • FAX: (617) 558-0056 • <http://www.hnu.com> • email: sales@hnu.com

new products

resin. The space between the liners is monitored through a port in an end fitting to detect leaks. **Dupont.**

Circle 248 on card.

Analyzer

The Ultrameter is a 6-parameter analyzer that is water-



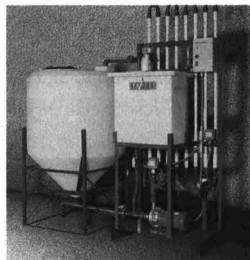
proof to 3 feet. It tests pH, ORP, conductivity, temperature, total dissolved solids and resistivity. The Ultrameter is

ideal for boilers, cooling towers, reverse osmosis/deionization water treatment systems and on-line controller calibration. **Myron L. Co.**

Circle 249 on card.

Wastewater Treatment System

The VS-Series wastewater treatment system provides



treatment for both disposal to sewer and recovery of valuable water-based fluids. The system is based on ultrafiltration technology for temperatures up to

170 degrees Fahrenheit. It has a clean-in-place tank for connection to a process tank. **Dynatec Systems Inc.**

Circle 250 on card.

Contaminant Transport

RIP, a PC-based software, probabilistically simulates the release, transport, and fate of contaminants within complex engineered or natural environmental systems. It provides risk assessments and decision support during the development and licensing of radioactive and hazardous waste disposal facilities. **Golder.**

Circle 251 on card.

Analyzer

The Model P33 pH/ORP analyzer accepts many different types of pH/ORP sensors, including GLI differential sensors, conventional electrode pairs or standard combination elec-



trodes. The large backlit LCD simultaneously displays the measured pH and process temperature. **GLI International Inc.**

Circle 252 on card.

Cleaning Spills

Boom absorbents can be used for cleaning up oil and chemical spills. They are made of fiber-locked polypropylene material. They absorb 25 times their weight and can be reused up to 100 times. **Boom Environmental Products.**

Circle 253 on card.

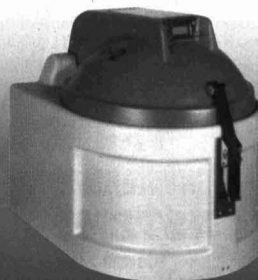
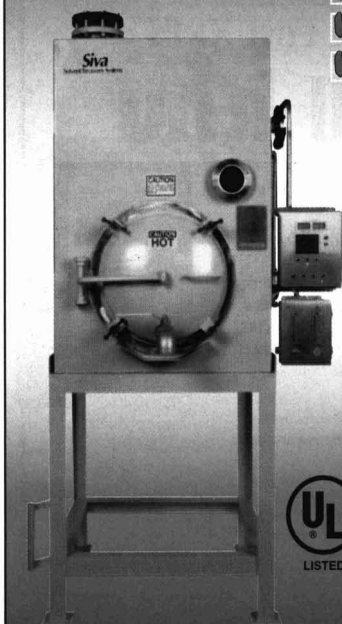
Recover and Recycle Waste Solvents "On-Site"

- ✓ **Turn Trash into Cash**
- ✓ **Reduce Transportation & Disposal Liability**
- ✓ **Improve Your Waste Generation Status**

SIVA Solvent Recovery Systems are designed to recycle almost any solvent from 4 to 1500 gallons per day. SIVA Systems offer environmentally sound solutions with unbelievably quick paybacks.

Siva The most complete line of solvent recovery equipment.

4647 S.W. 40th Ave. • Ocala, Florida 34474
Phone: (800) 593-2550 • Fax: (352) 873-5187



Liquid Sampler

The Series 250 liquid sampler is designed for direct sam-

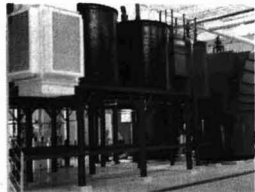


ple transfer from the sample location to the collection bottle. The sampler line, rod and plunger are not removed from the drum during the extraction process. Applications range from RCRA, waste testing, environmental compliance, product quality and HazMat response. G/O Corp.

Circle 254 on card.

Sulfate Elimination

The Sulfate Wastewater Process is a three-step approach to

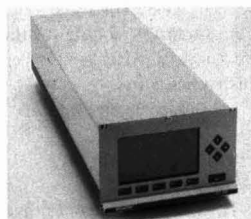


wastewater minimization. Extreme sulfate levels and heavy metal concentration are reduced to nondetectable levels. Primary and secondary drinking water standards are achieved through a removal process. The system uses a lime-based process. Hoffland Environmental.

Circle 255 on card.

Photometer

Rosemount Analytical added an ultra low carbon monoxide (ULCO) analyzer to its NGA 2000 MLT gas analyzer series.

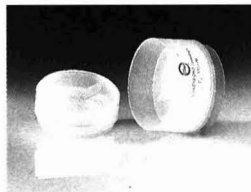


The series offers up to four photometric channels and one non-photometric channel for gas analysis. The ULCO instrument ranges from 0 to 2,500 PPM CO, with better than 1 percent accuracy. Rosemount Analytical.

Circle 256 on card.

Extraction Disks

The Bakerbond Speedisk™ oil and grease extraction disk provides filtration capacity and inlet characteristics that maximize access of analyte molecules to micro-particulate sorbent. It resists clogging and ex-

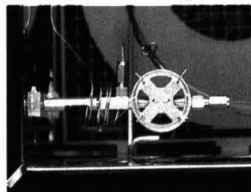


hibits high throughput rates even when samples contain solids. J.T. Baker.

Circle 257 on card.

Chromatograph Accessory

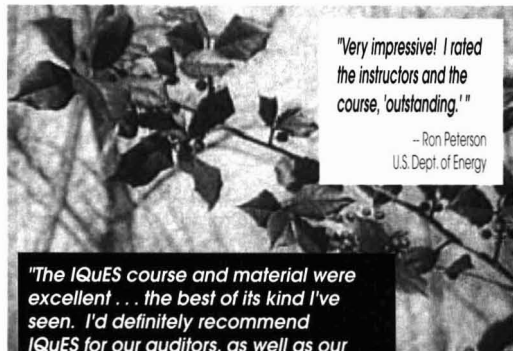
The ProTest™ accessory for the AutoSystem XL™ gas chro-



matograph is ideal for applications that involve the determination of volatile components

ISO 14000

ANSI/RAB
ACCREDITED TRAINING



"Very impressive! I rated the instructors and the course, 'outstanding.'"

— Ron Peterson
U.S. Dept. of Energy

"The IQuES course and material were excellent... the best of its kind I've seen. I'd definitely recommend IQuES for our auditors, as well as our clients."

— Brent Backus
TUV Rheinland

IQuES is *the* leading provider of ISO 14000 training and management services in North America.

800-793-2691

(248) 344-4466

FAX: (248) 344-9759

e-mail: IQuES@aol.com

IQuES

INTERNATIONAL QUALITY & ENVIRONMENTAL SERVICES, LLC

Portable Tankage

Petro-Flex®
Aqua-Flex™
Chem-Flex™

- IDEAL FOR FUEL, WATER, WASTE, CHEMICALS & EMERGENCY SPILL CLEAN-UP
- 50 TO 100,000 GALLON CAPACITIES
- INSTANT HOLDING - FULLY COLLAPSIBLE
- USED BY ALL U.S. ARMED FORCES

ATL "FLEX TANKS":
THE ESSENTIAL HAZMAT TOOL ...
IN STOCK FOR FAST EMERGENCY RESPONSE

AERO TEC LABORATORIES INC.
RAMSEY, NJ 07446-1251 USA
TEL: 201-825-1400 • FAX: 201-825-1962
e-MAIL: aerotec@cerf.net

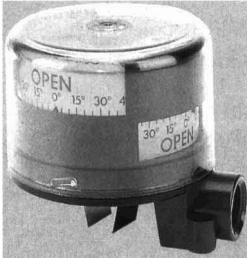
new products

in semivolatile samples. The system protects the capillary analytical column from semivolatile components in the sample and reduces analysis time. **Perkin-Elmer.**

Circle 258 on card.

Transmitter

The Series QV Quick-View® valve position indicator/trans-



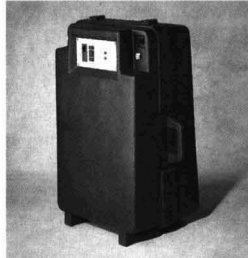
mitter is ideal for use with rotary and linear valves and actuators, manual valves, gear operators and positioners. Control is provided by four mechanical

or reed switches or also by a 4-20mA transmitter output with up to two switches. **Dwyer Instruments Inc.**

Circle 259 on card.

Portable Drinking Water System

PortaPure™ combines five stages of microfiltration with



high intensity ultraviolet exposure to produce safe drinking water from contaminated sources. The unit produces up to 700 gallons per day, uses AC or 12-volt DC power and

will service a vertical head of approximately 14 feet. **Oberg Environmental Products.**

Circle 260 on card.

Printer

The Avery Dennison™ TTX-1050 printer processes contain-



er, hazard, product identification and shipping labels up to 10 inches wide. It produces bar codes, human-readable text, chemical symbols and logos in print widths up to 8.5 inches and maintains a print resolution of 300 dots per inch. **Avery Dennison.**

Circle 261 on card.

Waste Handling

The E-Zee Drum is made of durable, light-weight, tubular



steel parts and can be assembled in less than a minute. Its open wall construction allows bags to be removed from the side. Ideal for restaurants, laundries, building maintenance, industrial plants, and other work sites where waste is handled. **G/O Corp.**

Circle 262 on card.

Industrial Wastewater Treatment Systems

- Industrial Waste
- pH Adjustment
- Toxic Metals
- Oil Removal
- Plating Waste
- Ground Water
- Fluoride Removal
- Phenol Oxidation
- Sludge Dewatering
- Cyanide Destruct
- Chrome Reduction
- Suspended Solids



- Single Point Responsibility
- Compact Modular Construction
- Low Installation Cost
- Integrated Controls
- Guarantee

Custom Designed to Fit Your Application

WATERLINK®
Great Lakes
Environmental

• Waste Water Treatment • Vacuum Filter • Inclined Plate Clarifiers • Oil/Water Separators

315 S. Stewart, Addison, IL 60101
Phone: 630-543-9444 • Fax: 630-543-1169
www.gle.com greatlakes@waterlink.com

Protection Valve

The MicroMatic valve is designed for use with hazardous

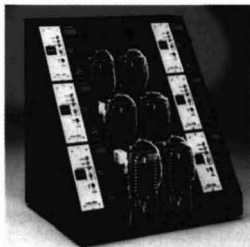


and non-hazardous substances. It features a "keyed" coupler, so it can only be connected to the matching valve in each container. The valve can also be used with containers that hold a pressurized nitrogen blanket. **Spartanburg.**

Circle 263 on card.

Calibration Bench

The Span Lab™ TO-14 Cal Bench is a group of 30 individually controlled permeation



tube ovens. Each oven is self-regulating at a preset, fixed temperature. The carrier flow through each oven is individually controlled. The temperature range available is 30 degrees Celsius to 150 degrees Celsius. **Kin-Tek Laboratories Inc.**

Circle 264 on card.

Ozone Treatment

NOVAZONE's ozone generators are fully integrated and include ozone generating cells, power supplies, air dryer and computer control system in a

Compliance Assurance Monitoring

Portable emission analyzers for Professionals

❖ Full line of
easy to use
portables

❖ Superior
LONGLIFE
cell technology

❖ Lightweight
and Rugged

❖ Unsurpassed
accuracy

❖ Longterm or
PERIODIC
monitoring

48 Hour Service/
Cash Back Guarantee



Testo, Inc., Flanders, NJ
fax: 973/252-1729
<http://www.testo.com>

testo

Call today
800-227-0729

Circle 80 on card.



The Environmental,
Health, and Safety
Conference and
Exposition

May 11-13, 1998
Research Triangle Park,
North Carolina

DISCOVER

new compliance strategies for water, air, ISO 14000, hazardous waste, emergency response, and other EH&S challenges.

INTERACT

with leaders in industry, government, and academia who will discuss national and global issues.

ACQUIRE

products and services to meet the challenges of the next millennium from the industry's top vendors.

REGISTER NOW

to take advantage of early-bird discounts and secure your spot at the must-attend conference for 1998. Visit <http://ercweb.com/summit98>, call 1-888-4ES-1998, fax (919) 469-4137, or e-mail bramos@ercweb.com for more information and to register.

Call 1-888-4ES-1998 today!

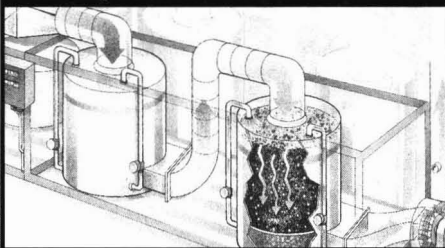
For information on exhibiting, call (919) 469-1585, ext. 223

Circle 79 on card.

INNOVATION IN BIOFILTRATION

BASYS
BASYS
BASYS TECHNOLOGIES

The Basys Biofilter Patented Process



The Basys Biofilter is an expandable/modular air pollution control system for VOCs and odors. Microbial filter media destroys contaminants in air flows up to 120,000 ACFM. Features include:

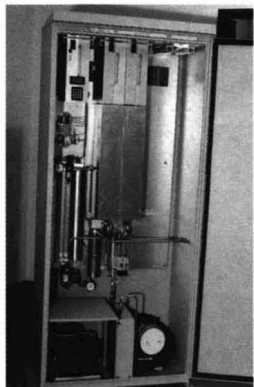
- Modular Construction
- State Of The Art PLC
- Negative Pressure
- Low Capital/Operating Costs
- High Removal Rates
- Leased Demo Units Available

VISIT OUR NEW WEBSITE AT
www.basys-tech.com

1345 NORTHLAND DR., MENDOTA HEIGHTS, MN 55120
800-254-5525 • FAX 612-683-8888

Circle 81 on card.

new products



single weatherproof cabinet. The generator uses thermoelectricity and air cooling and automatically adjusts ozone output to maintain the desired dosage at all times. **NOVAZONE.**

Circle 265 on card.

Liquid & Gas Flowmeter

The "S" Series flowmeters are available in 14 ranges from 13-



100 ml/min. to 2000-10,000 ml/min. Measurements are displayed on a 3½ digit LCD digital display with a 0-5 VDC output provided for recording data. An AC-DC adapter plug for operating on conventional AC power is optionally available. **McMillan Co.**

Circle 266 on card.

Electronic Meter Register

The EMR-100 provides equivalent mechanical meter register functions and adds features like



electronic registration, volume preset shutdown, electronic temperature compensation and in-cab printing. The EMR-100 has a printer that sits right in the cab. **Veeder-Root.**

Circle 267 on card.

Oil Boom

The MK 10 boom is made from Du Pont's Kevlar materi-



al, which is woven and coated with urethane. The polyethyl-

ene float surfaces are densified to a solid skin by a molding process that enhances toughness, abrasion resistance, and ease of cleaning. **Slickbar.**

Circle 268 on card.

Multifunction Analyzers

The Moisture Series Analyzers (MSA) perform a variety of



measurements, including trace moisture (to ppb levels), trace oxygen, percent oxygen, gas composition, temperature and pressure. All of these functions can be done through one analyzer in combination with sensors and transmitters. **Panametrics.**

Circle 269 on card.

Introducing an Easier Way to Monitor and Respond to the Regs Affecting Your Operation.

As a top decision maker in multi-state operations, you are responsible for regulatory compliance, technology and environmental management issues. That's why you should know about Keller's RMR™, Regulatory Monitoring and Reporting. It's a newly refined, cost-effective process that can be applied to any bodies of federal, state or local agency regulations – and translates complex information into simplified tasking activities that help assure your company's compliance.

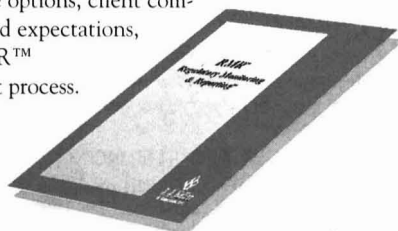
The RMR™ Process.

Keller uses a team of dedicated specialists who work on identified regulations that affect your business, track changes, and simplify requirements to focus on "how to comply" – then deliver results via your choice of media (electronic and/or print). It's that easy.

Any company affected by EPA, OSHA or DOT regulations, state or federal levels, and who has multi-state sites, can benefit from Keller's RMR™ process.

Get a FREE Prospectus.

Call toll-free, 1-800-685-2391, to order a FREE, 8-page RMR™ Prospectus. It contains the details, some options, client commitments and expectations, and the RMR™ management process.



Visit Keller online at:
www.jjkeller.com



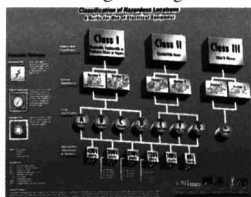
J. J. Keller
& Associates, Inc.

3003 W. Breezewood Lane, Neenah, WI 54957

Action Code 00609

Hazardous Locations Poster

"Classification of Hazardous Locations" gives a guide for



using electrical equipment in hazardous environments. The poster details complicated safety classifications into a colorful, easy-to-understand chart, complete with definitions and explanations. Visual Inspection Technologies Inc.

Circle 270 on card.

MSDSFILE Software

Material Safety Data Sheet Version 4.0 is compatible with Windows 95 32-bit architecture and also runs on a net-



work with Windows NT. The system has the ability to scan and index in one step. The 4.0 version can be loaded into scanners equipped with an automatic document feeder. HazMat Control Systems Inc.

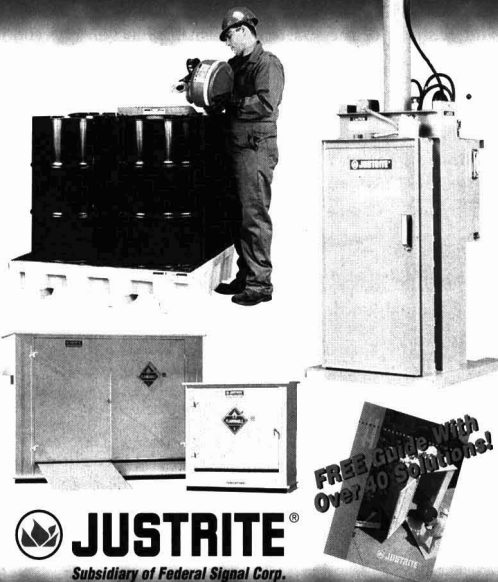
Circle 271 on card.

Protect Wastewater Pumps

The silicon carbide bellows seal protects the pump shaft and



Hazmat Management Solutions



JUSTRITE®

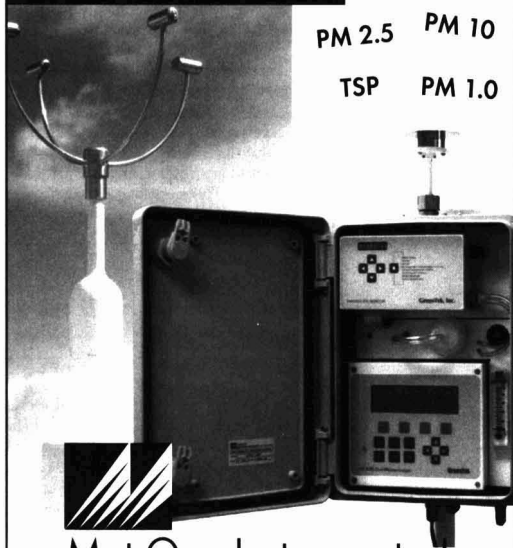
Subsidiary of Federal Signal Corp.

847-298-9250 Fax 847-298-3429 E-mail: jrmfg@mcs.net

© 1998 Justrite Manufacturing Co., LLC

Circle 84 on card.

PARTICULATE



Met One Instruments, Inc.

1600 Washington Blvd., Grants Pass, Oregon 97526

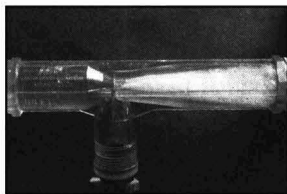
Tel 541 471-7111 • Fax 541 471-7116

www.metone.com • metone@metone.com

METEOROLOGICAL

Circle 83 on card.

-AERATION-



*The Ultimate in
Mass Transfer
of
Gases*

Mazzei® Injectors

APPLICATIONS

ODOR CONTROL **H₂S REMOVAL**
BOD/COD REDUCTION **VOC REMOVAL**
OZONE INJECTION

- * Very high Air Transfer Rate per HP
- * Designed for extreme ease of gas injection
- * Flow ranges of 1/2 gpm to 4,000 gpm
- * Durable Kynar or 316 SS construction
- * Technical Engineers on staff to assist you



Setting the standard for efficiency

mazzei injector corporation

500 Rooster Drive • Bakersfield, CA 93307-9555, USA

Phone (805) 363-6500 • FAX (805) 363-7500

Internet <http://www.accelnet.com/mazzei/mazzei.html>

Circle 85 on card.

new products

motor on wastewater pumps. The low co-efficients of heat and elasticity of the seal resist extreme friction and corrosion presented by wastewater particles. The seal is an optional feature on 10 hp to 50 hp pump configurations for wet or dry pit mounts. **Pumpex.**

Circle 272 on card.

Measuring Instruments

The Testo models 950, 650 and 400 multi-function measur-



ing systems include large LCD displays, drop-down menus, assignable function keys and user-friendly keypads. The instruments can store up to 1,000 measurement locations and set limits and alarm parameters. **Testo.**

Circle 273 on card.

Composite Cases

The Val-An 900 Composite Series includes 19-inch rack

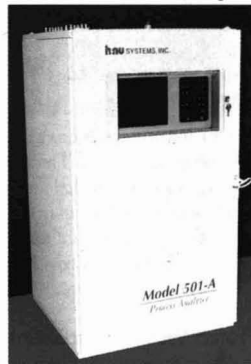


mount cases constructed from strong, lightweight composite materials. The cases are ideal for transport and field operation of electronic instruments. There are 220 standard and 308 custom sizes. **Zero Enclosures.**

Circle 274 on card.

Gas Chromatograph

The Model 501-A Automatic GC does not require



any knowledge of gas chromatography or software to operate. A wide range of detectors and options are available to measure hydrocarbons and inorganic species from fence-line to process. **HNU.**

Circle 275 on card.

Ammonia Scrubbers

Ammonia scrubbers remove ammonia from gas samples,



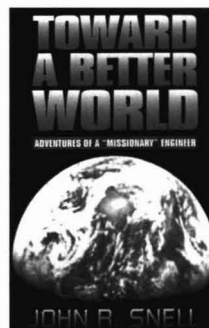
eliminate solid residues and prevent damage to the system. The scrubbers consist of a rugged housing filled with an inert ceramic substrate impregnated with reagent grade phosphoric acid. **Perma Pure Inc.**

Circle 276 on card.

product literature

This Department Contains...

A description of products from a variety of leading companies. To receive FREE literature, simply circle the numbers on the reader service card which correspond to the number beneath the products that interest you.



Circle 87 on card.

"Toward a Better World" by John R. Snell. Engineers will be entertained, educated and uplifted by these adventures. Written by a Harvard graduate with a doctorate in engineering, his true stories detail encounters with communist guerillas & man-eating tigers in China, avoiding wartime capture & death, and discovering the importance of listening to that "inner voice." Snell's consulting firm practiced in over 20 states and 25 developing countries. This captivating 250-page book can be purchased with a credit card for ONLY \$15.00.

Order now. Call 800-917-BOOK. Great for gifts, too! BE UPLIFTED.



Circle 86 on card.

Your Free AMS Sampling Technologies Catalog Ready to Mail
The AMS Product Line catalog is new for 1997. This 32-page catalog is a great reference tool for your company throughout the year. Full sampling equipment ordering information, plus new equipment including a Telescoping Auger, Quick-Spin connection, Ratcheting Cross handle and several new Soft-Side Sampling Field kits are featured. Order your free copy today by calling AMS at 1-800-635-7330, visiting our World Wide Web Homepage or by e-mail. The AMS Homepage address is <http://www.ams-samplers.com>. Our e-mail address is ams@ams-samplers.com.



Circle 88 on card.

Levellogger™
Solinst Levellogger™ is a 1/2" dia. datalogger and pressure transducer all in one self-contained probe, for automatically recording water levels in wells. Infra-red data transfer eliminates the need for electrical cable; reduces costs; avoids electrical interference. Warranty against power surges. Very-friendly software, stores 16,000 measurements per session, allows direct start or "future start." No data overwritten. Range 15 ft. (5m), 30 ft. (10m), or 100 ft. (30m).
Solinst Canada Ltd., 35 Todd Rd., Georgetown, Ontario L7G 4R8
Phone: (905) 873-2255, (800) 661-2023
Fax: (905) 873-1992
Website: <http://www.solinst.com>
E-Mail: instruments@solinst.com

classifieds

software

The Pardalis EnviroSafe eLetter

Attention: EH&S professionals. Subscribe for free to this weekly, e-mail summary of environmental and safety related governmental notices. Download free EPCRA/SARA Title III shareware software.

Pardalis Software, Inc.
405/377-5995 <http://www.pardalis.com/>

EnviroWare™

100% WINDOWS SOFTWARE USER FRIENDLY

EnviroWriter™ — ASSESSMENT WRITER

→ Exceeds ASTM & Fully Customizable
→ Already Accepted by Financial Inst's.

MASTER™ — Mgt. Phase I & II Process

→ Auto bids, contracts, tracks, schedules, JOB FORMS, for most Due Diligence Phase I & II Products

EnviroWriter™ & MASTER™ — Instant Ph. I Co.

SAVE TIME & MONEY \$
FREE TRAIL & DEMO (conditions apply)

(800) 774-2731 X112 or
<http://www.PhaseI.com>

MSDS Software Report

Find the right software to manage or author your material safety data sheets!

- Profiles 64 MSDS software packages
- Compares system features

382-page reference for only \$239



Call (800) 201-1595

www.donleytech.com

EnviroData Solutions, Inc.

Helping you work smarter.

- Customized, user friendly data management systems
- Systems for water, air, waste, and more

Tel: 360-254-1608

Website: www.envirodatasolutions.com

Circle 284 on card.

Advertise your product or service to the environmental protection community in EP.

Contact David Schwartz today at: 972-687-6727

training & consulting



Occupational Training & Supply, Inc.
12601 S. Springfield
Alsip, IL 60803

Scheduled Classes or On-Site Training

Confined Space Entry/Rescue
OSHA HAZWOPER
OSHA 10-Hour
Fall Protection/Scaffolding
Asbestos/Lead Abatement



Call for a free course schedule: (708) 385-1325

We are also a Stocking Distributor of Safety Supplies and Equipment

training manuals

Training Manuals

WHOLESALE

OSHA • EPA • DOT
1-800-637-2384

<http://www.nes-hazmat.com>

Network Environmental Systems, Inc.,
Rancho Cordova, CA

used equipment

CENTRIFUGES

Sharples, Alfa-Laval, Westfalia, Bird, Tolhurst,
Western States, Dorr-Oliver, AND MORE...

SANDERS EQUIPMENT COMPANY

Bill Sanders, Centrifuge Specialist
5325 Bartram Place
Raleigh, NC 27613
919-870-8020 (fax: 8097)

gloves



What a great price - **\$1.48** per pair. These good quality, medium weight safety cuff leather gloves provide dependable and affordable hand protection.

Style TP15 \$17.75 per dozen pair

No minimum order. We accept

Call TOLL FREE (800) 241-7001

Your satisfaction guaranteed.



TOP HAND GLOVE

drum wicks

DrumWic™

Avoid citations for rusty drum heads and ruined labels. DrumWic™ will drain the rainwater from your drum heads. Call for a FREE sample today!

800-DRY-DRUM
Lee Technology, Inc

sampling container

GAS SAMPLING BAGS

- Custom Sizes and Designs
- Tedlar™ and Teflon®
- Various Fittings

Phone: 919-732-3115
Fax: 919-732-7670



Circle 285 on card.

Sample Bags

- Tedlar
- Black Tedlar
- Teflon
- Custom sizes and fitting choices available



The world leader in air sampling technology

800-752-1141

recruitment

OPPORTUNITIES

Positions available for Industrial Hygienists, Safety/Environmental & Toxicology Professionals. Please send resume including current/desired salary & geo. preferences to:

Greg Downs

Executive Recruiters Agency, Inc.

P.O. Box 21810, Little Rock, AR 72221-1810

(501) 224-7000; FAX: (501) 224-8534



Opportunities For All Environmental Professionals

- Profit Center Management
- Senior Technical Positions
- Project Management
- Consulting and Industry
- Air Quality • Water/Wastewater • Solid Waste • Hazardous Waste
- Groundwater • Remediation • Engineering Design • Transportation

REPRESENTATIVE CLIENTS:

OHM • Dames & Moore • Foster Wheeler • ICF Kaiser • ESE
HNTB • Bristol Meyers • Metcalf & Eddy • Brown & Root • ASI
Amoco • Exxon Chemical • Brown & Caldwell • Earth Tech
Harding Lawson • EMCON • Rust • Kodak • Shering-Plough
CH2M/Hill • CDM • Archer Daniels • Hoechst Celanese • Merck

Coast to Coast Contacts and Network Second to None!!!

Brian MacLennan, C.P.C. - President/Angela Swope, V.P. Administration

21514 Gulfstar Court
■ Phone: 704-896-3336 ■ Fax: 704-896-3337

products and services

Dynatrol® The Best Available!

% Concentration - % Solids

- METALWORKING FLUIDS
- QUENCHANTS
- PLATING BATHS
- ACIDS
- CAUSTICS, etc.

Automation Products, Inc.
3030 Maxroy Street, Houston, Texas 77008-6294 USA
Fax 713-869-7332 Telephone 800-231-2062 D478-CL111



Circle 286 on card.

CONTAINER BAG LINERS



Leak Protection for Roll-Offs
Dump Trailers and Railroad Cars

PACKAGING RESEARCH & DESIGN CORP.
P. O. Box 678, Madison, Mississippi 39130-0678
TOLL FREE 1-800-833-9364

ATLANTIC SCREEN & MFG., INC.

Products for:

- Water Wells
- Petroleum Inspection Wells
- Groundwater Monitoring
- Zone Sampling Equipment
- Dewatering
- Landfill & Construction
- Pumps



118 Broadkill Rd. • Milton, DE 19968
302-684-3197 FAX 302-684-0643

professional services

CONTINUING EDUCATION AND TRAINING

E O H S I

ENVIRONMENTAL AND OCCUPATIONAL HEALTH SCIENCES INSTITUTE

CENTERS FOR EDUCATION AND TRAINING
(NIOSH, US EPA, NIEHS-US EPA/US DOE)

PISCATAWAY • NEW JERSEY

- Air Pollution
- Lead and Asbestos
- Hazardous Materials
- Risk Assessment/Communication
- Environmental Management
- Toxicology
- Industrial Hygiene
- Water Pollution

OFF-SITE TRAINING AVAILABLE!

Call for our complete 1998 catalog
(732) 235-5062 Fax: (732) 235-5133
E-mail: cet@eoehsi.rutgers.edu
Visit our website!
www.eoehsi.rutgers.edu/cet

EOHSI is jointly sponsored by the University of Medicine and Dentistry of New Jersey, Robert Wood Johnson Medical School and Rutgers, The State University of New Jersey



ATLANTIC SCREEN & MFG., INC.

Products for:

- Water Wells
- Petroleum Inspection Wells
- Groundwater Monitoring
- Zone Sampling Equipment
- Dewatering
- Landfill & Construction
- Pumps



118 Broadkill Rd. • Milton, DE 19968
302-684-3197 FAX 302-684-0643

YOUNGSTOWN BARREL & DRUM CO.

STEEL • PLASTIC • FIBER
DRUMS & PAILS In Stock


- ♦ 1GAL-110GAL
- ♦ U.N. STANDARD
- ♦ DRUM HANDLING EQUIPMENT
- ♦ SALVAGE DRUMS
- ♦ DRUM LINERS
- ♦ SPILL CONTAINMENT PRODUCTS

SAME DAY SHIPMENT • CALL FOR QUOTE
www.thomasregister.com/ybd

1-800-359-DRUM
(330) 746-3277 • FAX (330) 746-3288
1042 MARBLE ST. YOUNGSTOWN, OHIO 44501

Circle 287 on card.

conference



A Decade of Environmental Solutions

Plan Now for EnviroExpo '98
World Trade Center, Boston • May 5, 6 & 7 1998

EnviroExpo-New England
333 Trapelo Rd.
Belmont, MA 02178-1856
call 617.489.2302
Fax 617.489.5534
www.EnviroExpo.com

10 YEARS STRONG
ENVIROEXPO
NEW ENGLAND

SAFETY CLIPART

Each of the following disks contain 140 images:

- MSDS INFO
- CONSTRUCTION
- CONFINED SPACE
- DOT/FLEET
- ERGONOMICS
- FALL PROTECTION
- FIRE SAFETY
- GENERAL SAFETY
- HAZARD COMMUNICATION
- LOCKOUT/TAGOUT
- MATERIAL HANDLING
- MEDICAL
- PPE
- SAFETY FIRST



\$39.00 PER 3.5" DISK

CD ROM 2000+ IMAGES \$299

NEW PRODUCT: SAFETY SCREENSAVERS

FREE CATALOG!!
By mail or internet www.flash.net/~sslx

Safety Services of Texas
PO Box 160932 Austin, TX 78716
1-800-767-8003/ 512-280-1929(FAX)

PURCHASE ORDERS ACCEPTED

Circle 288 on card.

locks

PadLocks

Master Lock
Wilson Bohannon, Sesamee

Brass Steel
Stainless Steel
Keyed Alike
Master Keyed
Any Quantity
Anywhere

- Fast Quotes • Best Prices
- Quick Ship • Free Info

LockMasters
1-800-461-0620 • Fax 850-914-9754

instrument rental

HEINRICH ENVIRONMENTAL INC.

Instrumentation

RENTALS

World Wide Shipping
\$\$GREAT PRICING\$\$
for BROCHURE
CALL
1-800-225-1945

Circle 289 on card.

Florida ■ Georgia ■ Louisiana ■ North Carolina ■ Tennessee ■ Texas
Argentina ■ Brazil ■ Chile

ATTENTION ENVIRONMENTAL PROFESSIONALS

**Project Managers / Industrial Hygienists / Technicians
Operations Managers / Project Engineers**

Applied Earth Sciences, Inc., a 13-year old international environmental consulting company, has career opportunities throughout its U.S. and South American offices.

- **Geologists, Hydrogeologists and Environmental Engineers**, Mid-Sr Level: UST exp. (CAPM desirable), RCRA, and/or CERCLA. ESA exp. a +. Sr. level requires M.S. + 6 yrs exp. (Houston, Corpus Christi, and New Orleans)
- **Project Hydrogeologist or Engineer (wastewater, chemical or environmental)** with 3+ yrs exp.: consulting and industrial design and construction management (Houston)
- **Project Engineers/Managers specializing in Industrial Hygiene** with 2+ yrs exp.: IAQ, NIOSH 582 and/or lead paint monitoring (Dallas and San Antonio)
- **General and Operations Managers for South America:** Bilingual skills (Spanish/Portuguese/English and Spanish/English) and operations experience
- **Field Technician** with 2+ yrs exp.: groundwater monitoring and sampling experience (Houston)

All positions require team-oriented individuals with:

- B.S. degree in engineering, sciences or related field (except Field Technician)
- Industrial or consulting experience
- Professional licenses, as applicable
- Excellent communication skills (both written and oral)
- Project level positions require marketing and management skills
- Solution-driven track record with industrial clients

AES is an EOE and offers:

- Competitive salaries + excellent benefit package
- Professional and ethical working standards
- Stable and growing client base
- Rewarding and challenging position in a client and employee oriented company

Mail, fax or e-mail resumes to **AES-Corporate Offices**,
7322 Southwest Freeway, Suite 1000, Houston, Texas 77074
FAX (713) 981-8821 • E-MAIL earth1@appliedearth.com



Some environmental companies

- Site Remediation Services
- Environmental Claims Administration
- Pollution Prevention
- Air Monitoring & Permitting

14K World's Fair Drive
Somerset, NJ 08873

1-888-SSG-6545

Phone: 732-354-0560
Fax: 732-354-6440

Over 50 Years of Engineering Excellence

Engineers, Architects
and Planners

Offices throughout the
U.S. and Europe

P.O. Box 15040 York, PA 17405-7040 • 800-274-2224



**MOBILE FILTER PRESS RENTALS
FOR SLUDGE DEWATERING**
High Pressure R&B Filter Presses
Training, Mob & Demob Services



1187 Thorn Run Ext.
Suite 130, Box 10
Coraopolis, PA 15108
Phone: (412) 269-2709

Asbestos Analysis - PLM/PCM
\$7.00 per sample/\$5.50 per sample prepaid
AIHA PAT-PCM Proficient, AIHA/RTI-PLM
Air Quality - Radon-Noise Dosimetry
Third-Party Air Monitoring
Asbestos Inspection and Assessments

PRECISION ANALYSIS, INC.

22 Orvieto Court
Florissant, MO 63031
Tel/Fax (314) 838-5052

maps/aerial

AERIALS & TOPO MAPS
Digital, CD, Hard Copy
(HISTORICAL & CURRENT) 1:50,000
-Regulatory Searches
-Regulatory Sources

FREE SEARCHES
(800) 774-2731 X112 or
<http://www.Phase1.com>

VISA MasterCard

Map EXPRESS 800-627-0039
24 HR. FAX 303-969-8195

USGS MAPS & PRODUCTS
Entire US coverage: Topographic,
Geologic, Aerial Photos,
State & US Maps.

www.mapexp.com

Circle 290 on card.

Carolina Global Maps
"The Professionals' MapStore"™

- ★ **USGS Topographic Maps**
-National Coverage
-Overnight Delivery Available
- ★ **Aerial Photography**
-Extensive Archives
-Custom Flown
- ★ **Digital Topos & Photography**
-Vector & Raster Topos
-Custom Digitizing, Vector or Raster

800-248-6277 919-757-2511
Fax 800-321-6277 919-757-0959
www.LBAGroup.com Email: CGMaps@LBAGroup.com

Circle 291 on card.

SER Problem Solvers with a "Can Do Attitude"

- Emergency Response
- Professional Tank Installation & Removal
- Multi-Media Investigation
- Multi-Media Remediation
- Wastewater Treatment Operator
- Brownfield Development
- Environmental/OSHA Compliance

P.O. Box 1308
Mishawaka, IN 46545

E-mail: ser@skenet.net
1-888-779-4587 (737)

5449 Keystone Dr.
Fort Wayne, IN 46825

Brown, Vence & Associates, Inc.

Waste Management and Energy Conservation Consultants

SAN FRANCISCO, CA Tel: 415-434-0900

ROSEVILLE, CA Tel: 916-786-0600

LOS ALAMITOS, CA Tel: 310-594-7190

AAT

AMERICAN AQUATIC TESTING, INC.

- NPDES Compliance Biomonitoring
- Consulting Services
- Customized Studies
- NJ Certified Lab #77682

1111 Union Blvd.
Allentown, PA 18103
(610) 434-9015
(610) 434-2510 fax

Dissolved Oxygen Analyzers & Controllers
Turbidity, pH & Conductivity Meters

Engineered Systems & Designs, Inc.
119 A Sandy Drive • Newark, DE 19713
Phone: 302-466-0446 • 302-466-0441

The latest in cubic yard boxes

For haz & non-haz solid waste

Environmental Container
Call 1-800-278-3626

REACTIVES MANAGEMENT CORPORATION

- Hazardous Waste Management
- EPA, OSHA, and DOT Compliance Training
- Fume Hoods • Gas Cylinders • EOD/XO

P. O. Box 2598 • Chesapeake, Virginia 23327
Office: 757-436-1033 • 24-Hour Emergency: 757-498-2539
Toll Free: 800-372-6742

Handex Environmental Midwest

FULL SERVICE ENVIRONMENTAL CONTRACTING/CONSULTING

- ◆ Assessment
- ◆ Remediation
- ◆ Construction
- ◆ Solid Waste Facility Services

PA: 412-772-0444, OH: 513-772-3349
IN: 517-228-6240, MI: 248-347-2160
Nat'l/Intl locations visit www.Handex.com

HAZPACK

HOOP DeCon Wash

MITI CO 3183 HALL AVENUE
MANUFACTURING GRAND JUNCTION CO 81504
MARKETING/SERVICE 970/434-9100 FAX 970/434-9200

THE LEADING PROVIDER OF COMPLETE, INTEGRATED ENVIRONMENTAL SERVICES IN NORTH AMERICA

Clayton ENVIRONMENTAL CONSULTANTS

- ▼ Environmental Management
- ▼ Occupational Health & Safety
- ▼ Analytical Laboratory
- ▼ Litigation Support

800-562-8307
www.claytonenv.com
For more information, please call your nearest Clayton office.

NEW ENVIRONMENT, INC.

40-HOUR HAZWOPER TRAINING

SAVE THOUSANDS

Train your employees in-house using our Train-The-Trainer Program!

800-732-3073
Call for Information

BIOLOGICALLY ELIMINATE

- AMMONIA
- NITRATE
- NITRITE

MUNOX®
WASTEWATER INOCULANT

OSPREY Biotechnics
1-800-553-7785

RENTAL

- Aerosol Monitors
- Air Sample Pumps
- Breathing Apparatus
- Confined Space Entry Equipment
- EMF Meters
- Interface Probes
- Gas Detectors (CO, H₂S, LEL, CO₂, O₂, H₂,...)
- IAQ (CO, CO₂, TEMP, RH,...)
- Noise Monitors
- VOC Detectors (PID/FID)
- Velocity Meters
- H₂O Quality Checkers (PH, DO, COND, TURB,...)

ASC Professionals
CALL TODAY FOR FREE CATALOG 1-800-327-4260
WWW.ASCPRO.COM LOOK FOR US ON THE WEB!

RENT

- ▲ SOURCE SAMPLING SYSTEMS & ACCESSORIES
- ▲ PM10/TSP HIGH VOLUME AIR SAMPLERS
- ▲ AVOCs & CANISTERS
- ▲ MICROBIAL IMPACTORS

Overnight Delivery Available
Nutech
800-241-6898
for a FREE catalog

GRASEBY ANDERSEN

PROFESSIONAL TRAINING INSTITUTE

A Recognized Leader in the Delivery of DOT, EPA, & OSHA Compliance Training

Calendar of Events, 2nd Quarter 1998

COURSES	LOCATIONS	DATES
T-T-Trainer	Atlanta, GA	4/13-17
T-T-Trainer	Pittsburgh, PA	5/11-15
T-T-Trainer	Dallas, TX	6/15-19

This is a "how to" design, develop and deliver "POT" in every business or industry, by all training professionals. To register call 1-(800) 234-1892; or online at: <http://www.go-pti.com>

CALIBRATED CRITICAL ORIFICE SETS

- Critical Orifices for Isokinetic Control Consoles
- Complies with EPA Method 5 Section 7.2
- Free Software

Nutech
800-241-6898

GRASEBY ANDERSEN

Circle 292 on card.

Circle 294 on card.

professional directory

Hydrocarbon Environmental Recovery Systems

► Microbes ► Soil & Water Trtmt
► Spill Kits ► Dealerships
(210) 497-8980 Fax: (210) 497-4227
See our WEB Page @
<http://www.adwizards.com/hers>
P.O. Box 701275, San Antonio, TX 78270

LEGGETTE, BRASHEARS & GRAHAM, INC.

Professional Ground-Water and Environmental Engineering Services

Water Supply • Contamination • Modeling
Dewatering Permitting

Trumbull, CT
(203) 452-3100



Offices Nationwide
EST. 1944

Portable Sludge Dewatering Services

• Pressure Filtration • Belt Filter Press • Centrifuge
• Sludge Dryer • Dredging • Equipment Rentals



INDUSTRIAL SERVICES GROUP
Formerly J.D. MEAGHER/ALLWASTE, INC.
P.O. Box 752 • Westbrook, ME 04091 • 800-272-7388 PH • 888-491-7400 FAX

ROUT OUT BIRDS!



BIRD CONTROL SPECIALISTS
CALL TOLL FREE: 800-662-5021

Circle 295 on card.

GP-ELCD DETECTOR FOR THE GC (CHLORINE AND BROMINE ONLY)

PATENTS 5,019,517 AND 5,525,197
• Patent agreement available to GC manufacturers
• Detectors to GC users from D M Coulson
• D M Coulson patented ELCD #3,309,845
DMC Instruments 415-322-2674 fax 415-851-3541

Circle 296 on card.

Gas Sampling Bags

GRASEBY

Andersen

500 Technology Court
Smyrna, GA 30082 USA
770-319-9999 phone
770-319-0336 fax

Lowest Price
Highest Quality
Available

Circle 297 on card.

Hazardous Waste Drums Specializing in Overpaks U.N. APPROVED DRUMS

New and Reconditioned Steel • Plastic • Fiber
5 to 110 Gallons

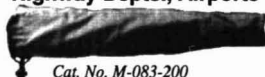
Cubic Yard Boxes UN (x rated) with Poly Liners
One Drum to Truck Loads Shipped Anywhere Prices
Depend on Quantity

If we do not stock a special drum, we will get it for you.

JAMES T. WARRING SONS, INC.
4545 "S" Street, Capital Heights, MD 20743
(301) 322-5400 — (301) 925-8874 FAX

WINDSOCK/FRAME

Environmental/Medical Facilities
Highway Depts., Airports



Cat. No. M-083-200

13" Dia. Windsock & Frame Only \$64.50

Bright orange nylon. Free-swiveling frame.

Low Maintenance, Long Life,

Additional sizes available

Call 1-800-558-6868

THE WAG-AERO GROUP

Large rental inventory including:

Area Velocity Flow Loggers,
Portable Samplers,
Open Channel Flow Meters,
Stormwater Monitoring Systems,
Doppler Flow Meters.

Leasing of ISCO Wastewater Samplers,
Flow Meters, Flow Monitoring Systems.

e-mail: enviro@vnet.net

www.envirolease.com

Call Toll-Free 800-252-7448

Flowmeter Rentals & Services

PSC offers short term rental & technical services using precision portable non-intrusive flow or energy flowmeters for Water & Energy Conservation Surveys or to verify compliance to EPA requirements, as well as:

- Leak Detection
- Balancing
- Calibration

Performance Survey Corporation

155 Plant Ave., Hauppauge, NY 11788
1-800-275-8478 Fax (516) 231-3334

COMPLETE ENVIRONMENTAL MANAGEMENT

FOR SMALL AND MEDIUM SIZE COMPANIES

Written programs, audits, permits, regulatory response, property assessments, soil & groundwater testing, safety inspections, Industrial Hygiene surveys, training, asbestos, lead, UST's, Haz Waste, emergency response, ISO14000 and more.



ATLANTIC ENVIRONMENTAL INC.
2 E. BLACKWELL ST. DOVER, NJ 07801
201-366-4660
REGIONAL OFFICES: ATLANTA • CHICAGO
1-800-344-4414

Since 1978

Example of Heavyweight Polyethylene Bottle

Call Catherine for details. EP-03
Ph. 1-800-997-2260

EnviroLine

Several sizes to choose from in polyethylene or Teflon: 4.10", 7.5", 1.5" or 3" OD

(Bottom weighted for faster sinking & balance)

Heavyweight, lightweight or nonweight design

hanging - speeds up sink time

Patented cone top & bottom eliminates well

Revolutionary PVC weight - no leaching!!

Factory Direct Prices

FREE

BUY 1 CASE GET 1

Monitor soil oxygen levels (and more!)



- Palm-size logger/sensor systems
- One-touch programming, calibration, and data collection
- Field proven, 7-year sensor life
- Low cost, from \$438/monitoring point
- Sensors also available for temp., low pressure, water level, and hydrocarbons

Call BioRenewal Technologies, Inc.
(888) 276-8906, e-mail at: info@biorenewal.com
<http://www.biorenewal.com>

NEED DRUMS TOMORROW? CALL TOLL-FREE TODAY! 1-800-366-7044

- STAINLESS STEEL DRUMS
- STEEL DRUMS
- POLYETHYLENE DRUMS
- SALVAGE & OVERPACK DRUMS
- PAULS AND CANS
- REER DRUMS
- HAZARDOUS WASTE DRUMS
- DRUM ACCESSORIES



54 Veronica Ave • P.O. Box 6140
Somerset, New Jersey 08875-6140
TEL: 908/435-0020 • FAX: 908/435-0040
OUR REPUTATION IS STAINLESS.



Environmental Risk Limited

- Process Safety Management (PSM)
- Risk Management Plans (RMP)
- ISO 14000 Certification

For Informed Business Decisions
(800) 883-1568

Connecticut - New Jersey - Georgia

Rent to Own
Mastercard/Visa Accepted

Cherokee
Instruments, Inc.

Source Testing
Equipment Rental & Sales

- Manual Source Sampling Systems
- Continuous Emissions Monitors
- Data Acquisition Systems
- Calibration Gases
- Accessories

Check out our new expanded selection of analyzers and equipment!

800.399.4CEM(4236) fax 919.552.3991

APEX INSTRUMENTS
SOURCE TESTING EQUIPMENT

Your Solution for Source Sampling Equipment

- Isokinetic Systems
- Glassware
- Probe Assemblies



EPA Methods 5, 17, 23, 29 and more

tel. 919.557.7300 web: www.apexinst.com
fax 919.557.7110 email: apexinst@mindspring.com

MID SOUTH SAFETY & ENVIRONMENTAL INSTITUTE

"Comprehensive occupational health, safety, environmental, engineering & loss control training".


1-800-962-4198

e-mail hcinc86@aol.com
CALL FOR COURSE LISTINGS

New Tools!

FOR FINE PARTICULATE AND OZONE MEASUREMENT

- Real-Time Aerosol Monitor
- PM2.5 Reference Samplers
- U.S. EPA PM10 Sampler
- Ambient Air Monitors
 - Ozone
 - PM2.5/PM10
 - CO, SO₂, NO_x, H₂S
- Meteorological Equipment



CAE Instrument Rental
Phone: (800) 553-5511
Website: www.cleanair.com

Circle 298 on card.

ENVIRONMENTAL & SAFETY SERVICES, INC.

ENVIRONMENTAL HEALTH & SAFETY MANAGER
CERTIFICATE COURSE
Independent Study Format

- Hazardous Materials • Air Pollution Control
- CERCLA/SARA • Water Pollution Control
- Ergonomics • Plans & Programs
- Recordkeeping • Hazwoper • Hazcom • Confined Space Entry • Lockout/Tagout • Bloodborne Pathogens • Personal Protective Equipment
- RCRA/HSWA • Civil & Criminal Liability • Hazardous Waste • Medical Surveillance
- Assessments/Audits

Accredited by the National Registry of Environmental Professionals for Registered Environmental Manager (REM) and recognized by the Institute of Hazardous Materials Management for Certified Hazardous Material Manager (CHMM). Also CEUs from UNC system.

PRICE: \$595.00 (all materials included)
CALL OR WRITE FOR DETAILS 800-447-6742
Box 3394 Wilmington, NC 28406

EMSL

ASBESTOS ANALYSIS LEAD ANALYSIS

SINCE 1981

NY • NJ • CA • GA • MI • TX • NC • WA
(800) 220-EMSL


... practical solutions for a changing environment

- Water & Wastewater
- Watershed/Wetlands
- Air Quality
- Hazardous & Solid Waste Management
- MCP/LSP Services

Stearns & Wheeler, LLC
ENVIRONMENTAL ENGINEERS & SCIENTISTS

One Remington Park Drive
Cazenovia, NY 13035 • (315) 655-8161

ALL TERRAIN MOBILITY



MATTRACKS OFF ROAD TRACK CONVERSION
IS THE SOLUTION FOR MAXIMUM MOBILITY IN ALL ADVERSE TERRAIN CONDITIONS
MUD • SNOW • SAND • SWAMP

IDEAL FOR USE AT

- Remediation Sites
- Soil Sampling/Testing
- Land Fills
- Engineering and Surveying Sites

CAN BE MOUNTED ON ALL AMERICAN AND MOST FOREIGN MAKES OF OFF-ROAD 4-WHEEL DRIVE VEHICLES.

FOR INFORMATION AND VIDEO PRESENTATION CALL:
218-528-4828
MATTRACK WILL GET YOU TO THE JOB
AUTHORIZED FACTORY DEALER

Off Campus Degree Programs

EARN YOUR B.S., M.S., or Ph.D., in Environmental Engineering, Occupational Health & Safety Eng., Human Resource Management or Business Administration through Distance Education

CERTIFICATIONS
Certified Environmental Compliance Manager
Certified Ergonomics Director

- Credit for Life Experience Awarded
- No on Campus Requirements
- Study at Your Own Pace
- Affordable Tuition Plans Available
- Licensed and Accredited



Columbia Southern University

CALL FOR FREE CATALOGUE
1-800-977-8449 Ext. 412



DAMES & MOORE

A DAMES & MOORE GROUP COMPANY

- Design
- Engineering
- Environmental Programs
- Construction Services

Tel: 213 996 2200 E-mail: exo@dames.com

FULL SERVICE • WORLDWIDE

AIR DISPERSION MODELING COURSES

Practical, "how to" courses customized to your local area, including state permitting. Advanced Modeling for Permits and 112(r) RMP Modeling courses also conducted.

Atlanta, GA 3/2-4
Chicago, IL 4/20-22

Asheville, NC 5/18-22
Denver, CO 7/13-17

BEE-LINE

TRAINING
www.bee-line-software.com
e-mail: info@bee-line-software.com



704/258-1895 Fax 704/258-1821



**Mystic Air Quality
Consultants, Inc.**

NEAR FOXWOODS CASINO

**LEAD, ASBESTOS, HAZMAT
CONFINED SPACE
TRAINING COURSES**

REFRESHMENTS INCLUDED
OUR PLACE OR YOURS

Full CIH and CSP Services

(800) 247-7746

BUY or RENT

Low-Cost Tanks

SAVE UP TO 50% OR MORE

ModuTank's modular round, rectangular and special shape tanks are lowest in overall cost. • H.D. • Bolt-together assembly • Minimal site prep • Fast low-cost anchoring • Quick delivery • Unlimited sizes.

RENT

rectangular EconoTanks in 20,000-1,000,000 gal. capacities or more. Fast shipment and assembly. Substantial savings over multiple Frac Tanks or other rental systems.

(800) 245-6964

ModuTank Inc.

41-04 35th Ave.,
Long Island City, NY 11101

Circle 299 on card.

ENVIRONMENTAL & SAFETY TRANSLATIONS

Providing confidential translations into Spanish or English that are accurate, timely and priced right!

- Material Safety Data Sheets (MSDS)
- Spill and Contingency Plans
- Training Manuals
- Company Operating Policies
- Translations of Letters and Reports



Miguel A. Antonetti
& Associates
19 Willowlawn St.
Buffalo, NY
14214-2328

tel: 716-835-6824 fax: 716-835-1529
e-mail: latinecol@aol.com

IATL

International Asbestos Testing Laboratories

**ASBESTOS AND LEAD
LABORATORY SERVICES**

AIHA - NLLAP - NVLAP
NY State ELAP Accredited

**QUALITY ANALYTICAL
SERVICES SINCE 1987**

(609)-231-9449

16000 Horizon Way, Unit 100
Mt Laurel, NJ 08054

Combustion Efficiency

**FAST, ACCURATE MEASUREMENT
OF O₂, CO, TEMPERATURE, STACK
DRAFT, AND SMOKE**

These microprocessor-based portable gas analyzers will also automatically calculate CO₂ and combustion efficiency. Optional NO, NO₂ and SO₂ sensors. Available for rental or sale.

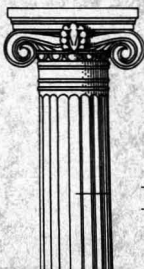
CAE
Express
A Division of Clean Air Engineering

CAE Express
Phone: (800) 223-3877
Website: www.cleanair.com



Circle 300 on card.

EARN YOUR COLLEGE DEGREE AT HOME



CHADWICK UNIVERSITY offers self-paced, accredited B.S., M.S., and M.B.A. home study programs. Increase your earning power and enhance your career. Approved by major companies.

DEGREE PROGRAMS

- Environ. Science/ Studies/Management
- Business Admin.
- Accounting
- MIS
- Finance
- Health Care Admin.
- Criminal Justice
- Psychology

FREE CATALOG:
1-800-767-CHAD

CHADWICK
UNIVERSITY

ACCREDITED MEMBER
World Association of
Universities & Colleges

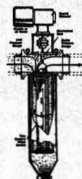
NO MORE DISPOSAL

— "Winner of Environmental
Excellence Award" —

STAINLESS STEEL SELF-CLEANING FILTRATION SYSTEM

Features:

- 200 PSI Rated & Stamped
- 4-500 Micron Screens
- 316 Stainless Steel
- 4" Threaded of A.S.A. Flanges
- 3" Drain • Height 60", Width 14"
- Weight 350 lbs.



Spencer Machine & Tool Co.
6205 Gheens Mill Rd.,
Jeffersonville, IN 47130
Ph: 1-800-801-4977
Fax: 812-282-7272

Call Today for our 30 Day FREE Trial!!

referral directory

AIR DISPERSION MODELING SOFTWARE

Beeline Software, P.O. Box 7348, Asheville, NC 28802. (704) 258-1895, FAX: (704) 258-1821. E-Mail: beest@beeline-software.com, Internet Address: www.beeline-software.com.

Leaders in air dispersion modeling software and training.

See our ad in Classifieds

ASBESTOS ANALYSIS

Precision Analysis, Inc., 22 Avieto Court, Florissant, MO 63031, PH/FAX: (314) 838-5052.

BAILERS/SINGLE USE

Enviroline, Inc., 2235 Nursery Road, Suite C, Clearwater, FL 34624. (800) 554-0123, FAX: (888) 554-0123.

Manufacturers of economical disposable bailers, collars, drum thieves and filters.

See our ad in Classifieds

BARRELS-CONTAINER PRODUCTS

Youngstown Barrel & Drum Co., 1042 Marble Street, Youngstown, OH 44501. (800) 359-3786, fax: (330) 746-3288. Internet Address: www.thomsonregister.com/ybd.

BIOREMEDIATION

Medina Agriculture Products Co., Inc., P.O. Box 309, Hondo, TX 78861. (210) 426-2288.

Full line of products for Bioremediation and Environmental cleanup.

See our ad in Classifieds

CONSULTANTS

Leggette, Brashears & Graham, Inc., 126 Monrow Turnpike, Trumbull, CT 06611. (203) 452-3100, FAX: (203) 452-3122.

Professional Ground-water and Environmental Engineering Services.

See our ad in Classifieds

Handex Environmental, 106 Thompson Pk Dr, Cranberry Township, PA 16066. (800) 989-8321, FAX: (412) 772-9733, Internet: www.Handex.com. Full service environment consulting & contracting.

SSG Incorporated, 14K World's Fair Drive, Somerset, NJ 08873. (732) 356-0560, FAX: (732) 356-6440.

e-mail: pstrouss@ssgcorp.com

Cost effective solutions to environmental problems.

See our ad in Classifieds

DRUMS-CONTAINERS

General Container Corp., 54 Veronica Avenue, P.O. Box 6140, Somerset, NJ 08875-6140. (908) 435-0020, FAX: (908) 435-0040. E-Mail: www.generalcontainer.com.

Your source for steel, polyethylene, and stainless steel drums.

See our ad in Classifieds

DUST COLLECTORS

Automation Products, 3030 Max roy, Houston, TX 77008, (713) 869-0361, FAX: (713) 869-7332.

See our ad in Classifieds

EDUCATION

Chadwick University, 2112 11th Ave. South Suite 504, Birmingham, AL 35205-2847. (800) 767-2423 or (205) 252-4480, FAX: (208) 252-4483. E-Mail: www.chad.edu.

Self-paced, accredited, B.S., M.S. and M.B.A. home study programs.

See our ad in Classifieds

Columbia Southern University, 27250 Perdido Beach Blvd., Orange Beach, AL 36561. (800) 977-8449, FAX: (334) 981-3815.

Earn your BS, MS, Ph.D. through the freedom of Distance Education.

See our ad in Classifieds

ENGINEERING & ENVIRONMENTAL SERVICES

Buchart Horn Inc., 445W W. Philadelphia/P.O. Box 15040, York, PA 17405. (800) 275-2224, FAX: (717) 852-1401.

See our ad in Classifieds

Dames & Moore Group, 911 Wilshire Blvd., Suite 700, Los Angeles, CA 90034. (213) 683-1560, FAX: (213) 628-0015. E-Mail: LAXHK@DAMES.com.

Engineering, Environmental, Construction Management, Litigation Support Services.

See our ad in Classifieds

GEOMEMBRANES

HGP International, Inc., 200 Cottontail Ln., Somerset, NJ 08873. (800) 344-6080, FAX: (908) 302-4220.

Manufacturers of reinforced and unsupported high quality flexible geomembrane liners.

See our ad in Classifieds

LABORATORY - ASBESTOS/LEAD

International Asbestos Testing Laboratories - IATL, 16000 Horizon Way, Unit 100, Mt. Laurel, NJ 08054. (609) 231-9449, FAX: (609) 231-9818.

Asbestos and lead analytical services. NVLAP, AIHA, and NY-ELAP accredited.

See our ad in Classifieds

LINERS: TRUCK

Packaging Research & Design, P.O. Box 678, Madison, MS 39130. (800) 833-9364, FAX: (601) 853-1202.

Disposable Bag Liners for roll-offs, dump trailers & railroad gondola's.

See our ad in Classifieds

MAPS & AERIALS

Phase One, 85 Argonaut #190, Aliso Viego, Ca 92656, (714) 457-0097.

See our ad in Classifieds

PROTECTIVE CLOTHING - HAND PROTECTION

Top Hand Glove, 426 Vanderbilt Rd., Asheville, NC 28803, (704) 274-2900, FAX: (704) 274-7577.

See our ad in Classifieds

RENTAL EQUIPMENT

ASC Professionals, 15075 E. Eleven Mile Rd., Roseville, MI 48066. (800) 372-4260, FAX: (810) 771-0098.

Safety equipment rental & repair.

See our ad in Classifieds

SAFETY TRAINING AND CONSULTING

Environmental & Safety Services, Inc., P.O. Box 3394, Wilmington, NC, 28406 (910) 763-6999, FAX: (910) 763-8709.

Full service company specializing in OSHA and EPA training and consulting.

See our ad in Classifieds

SLUDGE DEWATERING SERVICES

J.D. Meagher/Allwaste, Inc., P.O. Box 752, Westborough, MA 01581. (508) 366-6606, FAX: (508) 366-6662.

See our ad in Classifieds

SOFTWARE

Pardalis Software, Inc., 324 S. Husband, Stillwater, OK 74074. (405) 377-5995, FAX: (405) 372-8934. Internet Address: http://www.fullnet.net/pardalis/.

Affordable regulatory compliance software which also inventories hazardous substance information.

See our ad in Classifieds

Phase One, 85 Argonaut #190, Aliso Viego, Ca 92656, (714) 457-0097.

See our ad in Classifieds

TANKS

Modutank, Inc., 41-04 35th Avenue, Long Island City, NY 11101. (718) 392-1112, FAX: (718) 786-1008. Low-Cost bolt-together modular tanks in all capacities, rent or buy.

See our ad in Classifieds

TRAINING/CONSULTING SERVICES

Excel Partnership, Inc., 75 Glen Rd., Sandy Hook, CT 06482. (800) 374-3818, FAX: (203) 426-7811. E-Mail: www.xlp@xlp.com.

Excel Partnership, Inc. offers a full range of environmental management training and consulting services.

TRAINING MANUALS - WHOLESALE

Network Environmental Systems, Inc., 10933 Trade Center Drive #108, Rancho Cordova, CA 95870. (800) 837-2384, FAX: (818) 853-8626. Internet Address: http://www.nos.hazmat.com.

OSHA - EPA - DOT Training Manuals for sale.

WATER MONITORING

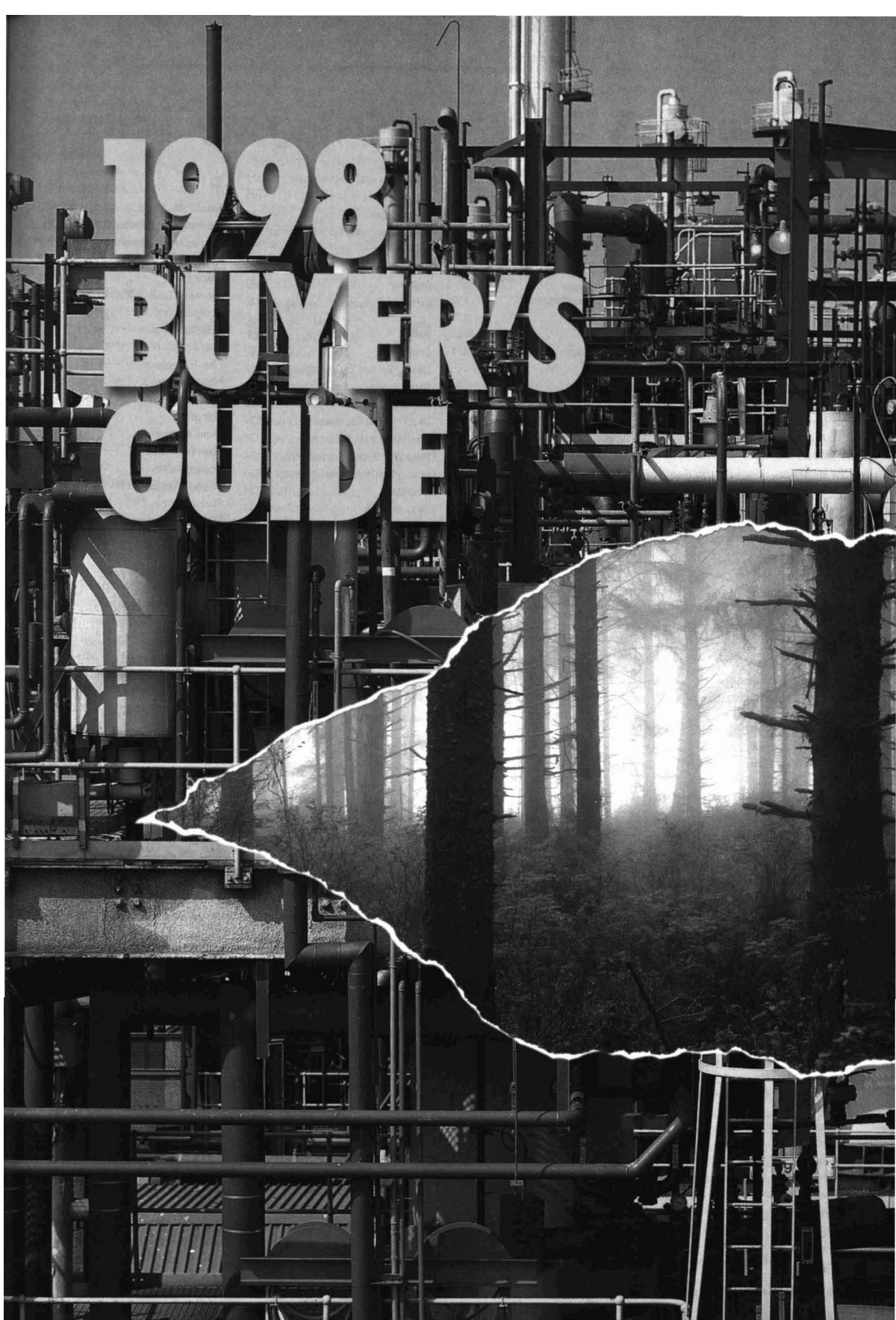
Scientific Instruments, Inc., 518 W. Cherry St. Milwaukee, WI 53212. (414) 263-1600, FAX: (414) 263-5506, Internet Address: si518@aol.com.

Stream gaging/water monitoring.

See our ad in Classifieds

To place your company's listing in
Environmental Protection's Referral Directory,
contact David Schwartz at: **972-687-6727**.

1998 BUYER'S GUIDE



A	page	Bioassay	110	Cooling Tower Water Treatment	122	F	page
Aboveground Storage Tanks	100	Biological Testing Apparatus/Supplies	110	Cooling Towers	122	Fabric Filter	132
Absorption Equipment	100	Bioremediation	110	Core Sampler	122	Fabricated Metal Products	132
Access Covers	100	Biostimulants	110	Corrosion Instrumentation/Protection	122	Fan Repair/Rebuilding	132
Acid Rain Gauge	100	Blowers	110	Couplings	122	Fans	132
Acoustical Chambers	100	BOD Test Equipment	110	Covers/Domes	122	Feeders	132
Activated Carbon	100	Boiler Feedwater	110	Crushers	122	Feedwater Treatment Equipment	132
Actuators	100	Treatment Equipment	110	Cyclones	122	Fiberglass Products	132
Adsorbent Equipment	100	Boilers	110	D	page	Field Testing Instruments/Services	132
Aeration Systems	100	Burners	112	Dampers	122	Filter Accessories	132
Aerators/Diffusers	100	Bushings	112	Data Acquisition Equipment	122	Filter Presses	132
Aerosol Detectors	100	C	page	Data Loggers	122	Filtration Systems	134
Aerosol/Particle/Smoke Generators	100	Calibration	112	Debris Baskets	122	Fire Safety Equipment	134
Agglomerators/		Carbon Adsorption	112	Dechlorination Equipment	124	Fittings	134
Briquetters/Pelletizers	100	Carbon Dioxide Detectors	112	Decontamination Equipment	124	Flame Arrestors	134
Agitators	100	Carbon Monoxide Detectors	112	Deep Well Systems	124	Flash Point Tester	134
Air Analyzers	100	Carbon Reactivation	112	Defoaming/Degreasing Equipment	124	Floating Baffles	134
Air Emission Monitoring Equipment	100	Carbon Regeneration Systems	112	Deionizers	124	Floats/Pontoons	134
Air Emissions Testing	102	Catalysts	112	Demineralizers	124	Flocculants	134
Air Exhaust Noise Control	102	Cathodic Protection Equipment	112	Density Instrumentation	124	Flotation Equipment	134
Air Filters	102	Centrifuges	114	Desalination Equipment	124	Flow Instrumentation	134
Air Make-up Units	102	Chemical Information	114	Detectors	124	Flowmeters, Mass	134
Air Pollution Control Equipment	102	Chemical Storage Buildings	114	Diffusers	124	Flowmeters, Variable Area	136
Air Quality Instrumentation	104	Chemicals	114	Digesters	124	Flue Gas Conditioning	136
Air Samplers	104	Chillers	114	Directories	124	Flue Gas Desulfurization	136
Air Strippers	104	Chlorination Equipment	114	Disinfection Equipment, Water	124	Flumes/Weirs	136
Air Velocity Meter	104	Chlorine Detectors	114	Dissolved Oxygen Detectors	124	Flushing/Cleaning Equipment	136
Anaerobic Pretreatment	104	Chlorine Scrubbers	114	Dissolved Solids Detectors	124	Fly Ash Recovery/	
Analysis, Atomic Absorption	104	Chromatographs	114	Distillation Equipment	124	Treatment Systems	136
Analysis, Electron Microscopy	104	Clamps, Pipe	114	Dredges	124	Freeze Protection	136
Analysis, Gas Chromatography	104	Clarifiers	114	Dredging Services	124	Fume Exhaust System	136
Analysis, Gas Chromatography/		Clarifier Drive Units	114	Drilling, Water	124	Fume Hoods	136
Mass Spectrometry	106	Clean Rooms/Supplies	114	Drum Deheader	124	G	page
Analysis, Liquid Chromatography	106	Cleaning Equipment/Supplies	116	Drum Pumps	124	Gas Chromatographs	136
Analysis, Soil, Air, Water	106	Cleaning/Flushing Services	116	Drums	124	Gas Cooling Equipment	136
Analytical Instruments	106	Clothing, Protective	116	Drying Equipment	124	Gas Detectors	136
Analytical Instruments, Air	106	Coagulation	116	Ducts/Stacks/Chimneys	126	Gas Source/Supplies	136
Analytical Instruments,		Coatings/Linings	116	Dust Collector		Gas Storage Equipment	136
Hazardous Materials	106	COD Instrumentation	116	Accessories/Supplies	126	Gaskets/Packing/Seals	136
Analytical Instruments, Rentals	108	Colorimeters	116	Dust Collector Controls	126	Generators/Emergency	136
Analytical Instruments, Wastewater	108	Combustible Gas Detectors	116	Dust Suppression Systems	126	Geographic Information Systems	136
Analytical Instruments, Water	108	Combustion Control Instruments	116	E	page	Geophysical Instruments	136
Analytical/Research Services	108	Combustion Monitors	116	Electrostatic Precipitator	126	Geotextiles	136
Annunciators/Alarms	108	Communication Equipment	116	Electrostatic Precipitator		Glassware	136
Aquifer Restoration	108	Communitors/Grinders	116	Supplies/Accessories . . .			

Heat Exchangers	139	Motors	146	Refractometers	150	Sweepers, Truck Mounted, In Plant	158
Heat Recovery Systems	139			Refractory Materials	150		
Heating Cable/Tape	139	N	page	Regulators	150	T	page
Heavy Metal Detectors	139	Nitrogen Oxide Detectors	146	Remediation	150	Tanks	158
Hose/Tubing	139	Noise Deadening Supplies	146	Remediation, <i>In Situ</i>	150	TCLP	159
Humidity Instrumentation	139	Noise/Sound Instruments	146	Remediation Services	150	Telemetry Systems	159
Hydrocarbon Detectors	139	Non-Haz Oil/Water/ Solids Reclamation Facilities	146	Rental Services	152	Telescoping Valves	159
Hydrogen Sulfide Control	139	Nozzles	146	Respiratory Protection Equipment	152	Temperature Instrumentation	159
Hydrogen Sulfide Detectors	139	Nuclear Waste Handling Equipment	146	Respirometers	152	Test Equipment, Misc.	159
Hydrological Equipment	140			Reverse Osmosis Equipment	152	Test Kits/Services	160
		O	page	Risk Analysis	152	TOC Detectors	160
I	page	Oceanographic Equipment	146	Rupture Disks	152	Tools	160
Identification Systems	140	Odor Control Equipment	146			Total Carbon Detectors	160
Incineration Systems	140	Odor Control Treatment	147	S	page	Total Nitrogen Analyzers	160
Indoor Air Quality	140	Oil Skimmers	147	Safety Equipment & Products	152	Total Oxygen Demand	160
Industrial Hygiene	140	Oil Spill Control Equipment/Services	147	Sample Containers	153	Total Sulfur Detectors	160
Instrument Accessories	142	Oil/Water Monitors	147	Sampling Systems	153	Toxic Gas Detectors	160
Instrument Rental	142	Oil/Water Separation	147	Screens	153	Toxicological Services	160
Insulation, Thermal	142	Opacity	147	Scrubbers	153	Training Management Software	160
Insurance	142	Operation & Maintenance Services	147	Sealants	153	Training Services/Equipment	160
Intake Screens	142	ORP Instrumentation	147	Secondary Containment	153	Training Videos	162
Intercoms	142	Oxidizers	147	Sedimentation Equipment	153	Transmitters	162
Ion Exchange	142	Oxygen Detectors	148	Sensors	154	Transportation	162
ISO 14000 Registration/Training	142	Ozonators	148	Separation Systems	154	Traps	162
		Ozone Detectors	148	Separators	154	Trucks/Trailers	162
L	page			Septic Tanks	154	Turbidity Instrumentation	162
Labeling Equipment	142	P	page	Sequencing Batch Reactors	154	Turbidity Standards	162
Laboratory Equipment/Supplies	142	Package Wastewater Treatment Plants	148	Settling Chambers	154		
Laboratory Services/Testing	142	Packing Materials	148	Sewage/Sludge Disposal Equipment/Services	154	U	page
Lagoon Separators/Baffles	143	Particle Detectors	148	Sewage Transport Systems	154	Ultrafiltration Equipment	162
Land Application Equipment	143	Particle Sizing Instruments	148	Sewer Inspection TV Systems	154	Underground Storage Tank Equipment	162
Land Application Systems	143	Passive Hydrocarbon Recovery System	148	Sewer & Stormline Root Control	154	Underground Storage Tank Leak Monitors	162
Landfills	143	PCB Testing	148	Shelters	154		
Landfill Equipment	143	Permitting	148	Shredders	154	V	page
Landfill Services	143	Pest/Weed Control	148	Signal Conditioners	154	Vacuum Cleaning Equipment	162
Leachate Treatment	143	pH Instrumentation	148	Silencers/Mufflers	154	Vacuum, Critical Filter	162
Lead Paint Abatement	144	Pilot Plants	149	Site Assessment	154	Valve Actuators/Operators	162
Lead Paint Analysis	144	Pipeline Cleaning, Repair	149	Sludge Blanket Level	155	Valve Positioners	162
Leak Detectors	144	Piping, Dual Containment	149	Sludge Concentrating Equipment	155	Valve Replacement Parts	162
Legal Information/Documentation	144	Piping Equipment	149	Sludge Dewatering/ Disposal Services	155	Valve Systems	162
Level Instrumentation	144	Pollution Survey Equipment	149	Sludge Dewatering Equipment	156	Valves	162
Level, Sight Gauges	144	Polymer Blending/ Feeding Systems	149	Sludge Management	156	Vapor Recovery	162
Lift Stations	144	Pressure Boosters	149	Sludge Solidification	156	Variable Speed Drives	163
Lime Slakers	144	Pressure/Vacuum Instrumentation	149	Slurry Cut-Off Walls	156	Vehicles, Off Road	163
Liners	144	Process Control Instrumentation	149	Soil Gas/Groundwater Surveys	156	Ventilation Equipment	163
Liquid Extractors	144	Professional & Trade Associations	149	Soil Sampling Equipment	156	Vents	163
Locators, Pipe/Valve/Cable	144	Programmable Controllers/Timers	149	Solvent Recovery Systems	156	Vibration Instruments	163
		Protective Clothing	149	Sonic Cleaning Devices	156	Viscosity Instruments	163
M	page	Publications	149	Speed Reducers	156	VOC Removal Systems	163
Management Services	144	Pulverizers	149	Spill Control Equipment/ Products/Services	156		
Manometers	145	Pump Controllers	149	Spraying Equipment	157	W	page
Medical Waste Disposal	145	Pumping Stations/Systems	149	Stack Emissions Monitors	157	Waste Minimization	164
Mercury Instruments	145	Pumps (Sludge, Wastewater, Groundwater, Misc.)	149	Stack Emissions Testing	157	Wastewater Treatment Systems	164
Mercury Spill Cleanup Products	145	Pyrolytic Processing	150	Stack Flow Meters	158	Water Conditioning Equipment	165
Metal Recovery Systems	145			Standards	158	Water Jetting Equipment	165
Meteorological Services	145	R	page	Standard Flow Meters	158	Water Meters	165
Meters	145	Radiometer/ Radiation Instrumentation	150	Sterilizers	158	Water Purification Systems	165
Microscopes	145	Radon, Testing & Analysis	150	Stormwater Monitoring	158	Water Quality Instrumentation	165
Misc.	166	Recorder Accessories	150	Stormwater Treatment	158	Water/Wastewater Treatment Equipment	165
Mist Eliminators/Collectors	145	Recorders	150	Strainers	158	Water/Wastewater Treatment Plants	166
Mixed Oxidant Generators	145	Recycling Equipment/Services	150	Sulfate/Sulfide Detectors	158	Weather Monitoring	166
Mixers	145	Reference Materials	150	Sulfur Dioxide Detectors	158	Weighing Equipment	166
Mobile Labs	145			Sulfur Oxide Detectors	158	Wetlands	166
Moisture Instrumentation	146			Suspended Solids Instrumentation	158	Whole Effluent Toxicity Testing	166
Monitoring Systems, Air	146			Sweepers, Air Sweepers	158		
Monitoring Systems, Hazardous Material	146			Sweepers, In Plant Sweepers	158		
Monitoring Systems, Water	146						
Motor Controllers	146						

Aboveground Storage Tanks

Aboveground Storage Tanks

Assmann Corporation of America



973-301-0028

BEM Systems Inc
Baker Tanks Inc
Brown-Minneapolis Tank/div of ITEQ
Storage Systems
Carter, Darnell & Grubbs
Engineers Inc
Chem-tainer Industries
Compliance Solutions Occupational
Trainers Inc
ConVault Inc
Dziurman/Associates PC
Environetics Inc
Highland Tank & Manufacturing Co
Industrial Marine Service Inc
Kepner Plastics Fabricators Inc
MGS Inc
Penn Environmental &
Remediation Inc
Rocky Mountain Consultants Inc
Trusco Tank Inc

Absorption Equipment

Amisco Separation Products
Andax Environmental Corp
Andersen 2000 Inc
Clean Gas Systems Inc
Direct Safety Co Inc
Dürr Environmental Inc
Ecosorb International Inc
Foss Environmental Services
General Carbon Corp
M J S & Associates
Misonix Inc
SEE AD ON PAGE 18, 143
New Pig Corp
Sorbent Products Co Inc

Thermatrix Inc
Tri-State Environmental
Products & Equipment
U F Strainrite

SEE AD ON PAGE 10, 116

Access Covers



Halliday Products Inc

Acid Rain Gauge

Scientific Sales Inc

Acoustical Chambers

Implant Enviro-Systems 2000 Inc
McGill Airclean Corp

Activated Carbon

Advanced Environmental
Recycling Co LLC



Barnebey & Sutcliffe Corp
Calgon Carbon Corp
Carbtrol Corp
Dürr Environmental Inc



Envirotrol Inc
General Carbon Corp
Groundwater Recovery Systems Inc
Hydro Quip Inc
Microbial Insights Inc
ResinTech Inc
Tri-State Environmental

Products & Equipment
US Filter/Westates



Vara Intl-Div of Calgon Carbon Corp
Western Filter Products/Osmonics

Actuators

Asahi/America Inc
George Fischer Inc
Harmonic Drive Technologies
Jamesbury

Adsorbent Equipment

AirSep Corporation-Industrial Div
Amceec Inc
Amisco Separation Products
Andax Environmental Corp
Barnebey & Sutcliffe Corp
Calgon Carbon Corp



Envirotrol Inc



Goal Line Environmental
Technologies
SEE AD ON PAGE 76, 130
McPhee Environmental Supply
Munters Corporation-Zeol Division
Process Technologies Inc
RaySolv Inc
Sorbent Products Co Inc
US Filter/Westates
Western Filter Products/Osmonics
Youngstown Barrel & Drum

Air Emission Monitoring Equipment

Aeration Systems

Aeromix Systems Inc
Enviro Quip Intl Inc
Hydro Group Inc
Mazzei Injector Corp
SEE AD ON PAGE 87, 162
Odor Management Technologies
Trumpf Power Tools
SEE AD ON PAGE 81, 167

US Filter/Davco
US Filter/Envirex
US Filter/Jet Tech
US Filter/Zimpro
Water Pollution Control Corp

Aerators/Diffusers

ABS Pumps Inc



Aeromix Systems Inc
Enviro Quip Intl Inc
Groundwater Recovery Systems Inc
Mazzei Injector Corp
SEE AD ON PAGE 87, 162

Mott Corp
Red Valve Co Inc
Schumacher Filters America Inc
US Filter/Davco
US Filter/EMU Products
US Filter/Jet Tech
Water Pollution Control Corp

Aerosol Detectors

J U M of North America Inc
Kanomax USA Inc
SKC Inc
US Industrial Products Co

Aerosol/Particle/Smoke Generators

Air Resource Specialists Inc

Bio-Reaction Industries Inc
Kanomax USA Inc

Agglomerators/Briquetters/Pelletizers

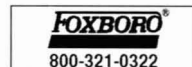
LCI Corp
Mars Mineral
Niro Inc

Agitators

Associated Design &
Manufacturing Co
Helken Equipment Co
LWT Inc
Neptune Mixer Co

Air Analyzers

Advanced Pollution Instrumentation Inc
California Analytical Instruments
Control Instruments Corp
Engineered Systems & Design

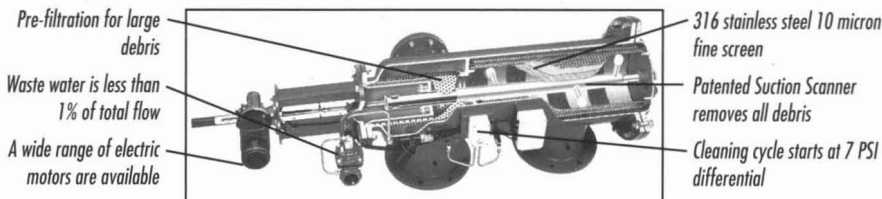


Foxboro Environmental
Gas Tech Inc
Horiba Instruments Inc
J U M of North America Inc
MIE Inc (Monitoring Instruments for
the Environment)
Midac Corp
Response Rentals
Sierra Monitor Corp
Zellweger Analytics Inc

Air Emission Monitoring Equipment

AQC Environmental Engineers
Advanced Pollution
Instrumentation Inc
Apex Instruments Inc
Auburn International Inc

THE 10 MICRON FILTER THAT DISPOSES OF DISPOSAL COSTS. AUTOMATICALLY.



We've brought Amiad Filtration to a new low. 10 micron, to be precise. It's perfect for particulate removal of algae, bacteria, scale and silt, and excellent as a prefilter for RO systems. Best of all, it cleans itself automatically, with our patented suction scanning system—no expensive bags or

cartridges to replace, no labor and downtime costs, and no expensive disposal costs. Plus, there is no interruption of flow during the cleaning cycle.

Amiad is the best way to get the lowest cost filtration per gallon! Call today for a FREE video.



30 Years of Clear Solutions for Your Filtration Problems

2220 Celsius Avenue • Oxnard, CA 93030 • (800) 969-4055 • (805) 988-3323 • fax (800) PRO-FILTER • fax (805) 988-3313

www.amiadusa.com • email: AMIADUSA@aol.com



PlantWare32[®]

Your Essential Enterprise-Wide EHS Software Solution

Environmental, Health and Safety information management is business information management. It is *essential* not only for regulatory compliance but also to your bottom line — even your ability to continue business operations.

PlantWare32 is a comprehensive, thoroughly integrated environmental management information system that lets you unify and streamline information processes at every level of your operations — saving time and money every step of the way.

Select only the capabilities you need to manage:

**Air • Waste • Water • Inventory •
MSDS • Health & Safety**

Find out how PlantWare32 can help you assure regulatory compliance, cut daily costs, and reduce risks while boosting productivity and profitability.

Call (800) 999-5009 or visit our Web site
at www.essentech.com today!



1401 Rockville Pike, Suite 500, Rockville, MD 20852
Telephone: (301) 284-3000; FAX (301) 284-3001

Circle 90 on card.
PLWAEP398



Air Emission Monitoring Equipment

Baldwin Environmental Inc
Brooks Rand Ltd
California Analytical Instruments
Cherokee Instruments Inc
Contec Systems
Industrial Corp
Control Instruments Corp
DataTest Inc
Dyna-Fid Inc
Energy Efficiency Systems Inc
SEE AD ON PAGE 59, 157
Engelhard Corp
Environmental Supply Co Inc
Graseby Andersen Inc
SEE AD ON PAGE 69, 128
Green Tek Inc
Horiba Instruments Inc
Inficon
SEE AD ON PAGE 11, 107
Intek Corp
J U M of North America Inc
KVB

LAND
combustion
215-781-0810

Land Combustion
SEE AD ON PAGE 50, 166
MIE Inc (Monitoring Instruments for the Environment)
Midac Corp
Pace Environmental Products Inc
Resochem Corp
Response Rentals
Restek Corp
SEE AD ON PAGE 56, 146
SASSCO
SENTEX Systems Inc
Testo Inc
SEE AD ON PAGE 85, 154
Thermo Environmental Instruments
SEE AD ON PAGE 43, 113
Tracker Technologies

Air Emissions Testing
AQC Environmental Engineers



419-627-1976 OH
201-664-2880 NJ

Affiliated Environmental Services Inc
Ashland Chemical Co
BBS Corp
Conversion Technology Inc



DAMES & MOORE
A DAMES & MOORE GROUP COMPANY
213-996-2200

Dames & Moore Group
Dyna-Fid Inc
ENSR
ERD Environmental Inc
Enercon Services Inc
Engelhard Corp
Environmental Science Services Inc
Environmental Solutions Inc
Evergreen
Environmental Group

Air Pollution Control Equipment

Gregory Leonardos -
Environmental Odor Consultant
Inficon
SEE AD ON PAGE 11, 107
Interlek Testing Services
Environmental Laboratories
KVB
Lexicon Environmental Associates Inc
SEE AD ON PAGE 7, 135
McGill Airclean Corp



800-394-1194

Metco Environmental
National Technical Systems
Occusafe Inc
Omni Professional Environmental Associates PA
Optimal Technologies Inc
Pace Environmental Products Inc
Pacific Environmental Services Inc
Penn Environmental & Remediation Inc
Raytheon Environmental & Quality Programs
Resochem Corp
Ronald L Beebe, CIH
Rosengarten, Smith & Associates Inc
Ross Analytical Services Inc
TRC

Air Exhaust Noise Control

McGill Airclean Corp
Midwest Research Institute

Air Filters

Advanced Dust Solutions Inc
Aerology
Airflow Systems Inc
Barnebey & Sutcliffe Corp
General Carbon Corp
Neotek Health Technologies Inc
Pneumatil Corp
US Filter/Westates
Visual Light

Air Make-up Units

Albax Inc

Air Pollution Control Equipment

ABB Air Preheater Inc
SEE AD ON PAGE 16, 136
AQC Environmental Engineers
Advanced Dust Solutions Inc
Advanced Environmental Systems Inc
Adwest Technologies Inc
SEE AD ON PAGE 28, 153
Airflow Systems Inc



412-898-2323

Arotech Inc
Allied Signal Environmental Systems & Services
Amceec Inc
Andersen 2000 Inc
Anguil Environmental Systems Inc
August Mack Environmental Inc
BOC Gases



Barnebey & Sutcliffe Corp



BASYS TECHNOLOGIES
SEE AD ON PAGE 85, 157
Beco Engineering Co
Bio-Reaction Industries Inc

Biothane Corp
Calgon Carbon Corp
Carbol Corp
Clean Gas Systems Inc
Contec Systems Industrial Corp



818-207-9500

Dürr Environmental Inc
Dustvent Inc
Dyna-Fid Inc
EMAT-Environmental Management & Technology Expo
ERS Services Inc
Engelhard Corp
Environmental Supply Co Inc
Envirotrol Inc
Falmouth Products
Flex-Kleen
General Carbon Corp
Gerguson DPI Inc
Global Technologies



888-777-GLET

Goal Line Environmental Technologies

SEE AD ON PAGE 76, 130

Hi Temp Technology Corp
Huntington Environmental Systems

ILC Dover Inc

SEE AD ON PAGE 123, 141

Implant Enviro-Systems 2000 Inc
John Zink Co

Johnson Matthey Environmental Products

MAE Inc (Monitoring Instruments for the Environment)



Martin Marietta Magnesia Specialties Inc

SEE AD ON PAGE 165

Misonix Inc

SEE AD ON PAGE 18, 143



314-275-5907

Monsanto Enviro-Chem Systems
Morlan & Morlan Inc
Munters Corporation - Zeol Division
New York Blower Co
Odor Control Co Inc
Onron Enterprises



412-655-0955

Process Combustion Corp



208-385-0900

Process Technologies Inc
Prototech Co
SEE AD ON PAGE 21, 31, 145, 147

REECO

RaySolv Inc
Regin Hvac Products Inc

Research-Cottrell

Restek Corp

SEE AD ON PAGE 56, 146

Ross Air Systems

Rusmar Inc

Spectrex



800-537-8980

Surface Combustion Inc

EQUS[®] for Windows & Geology

Simply the Best Environmental Data Management System Available

With interfaces to:

- GIS
- CAD
- Report Writers
- Labs and HAZSites and much more
- **EQUS for Windows** contains all the fields and relationships necessary to accurately manage environmental data.

All the Geology and Chemistry Data for

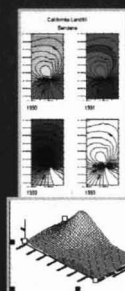
- Site Remediations
- Risk Assessments
- Field Characterizations
- Remediations can be stored in **EQUS**.

Starts at \$1,000

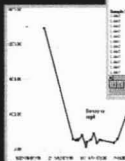
EarthSoft, Inc.

(800) 649-8855

<http://www.earthsoft.com>

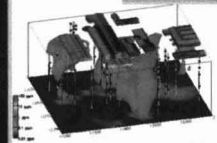


Contours like these are 8 keystrokes away!




Graphs and Reports like these are easily produced in Excel or other tools!

Advanced GIS and 3D visualization exports like these are mouse clicks away!



Start your day with an e-mail that'll make people think you worked all night.



Tuesday. 8:46 AM. Just enough time before the staff meeting to get coffee and read your E-Mail Summary of *BNA's Daily Environment Reporter*. During the meeting you turn heads with your insights about regulatory developments not even mentioned in the morning paper. And that's just one way BNA information transforms your workday.

Because only BNA environment and safety information services offer a total system:

- up-to-date news reports,
- comprehensive primary source materials,
- and expert analysis and guidance.

You'll move seamlessly between sources, thanks to intelligent linking organized by BNA's expert editors. Choose the formats that fit the way you work — CD-ROM, the Web, print, or e-mail. And maximize your benefits with BNA's free training and support.

You know you can trust BNA information. Now see what happens when you turn on the productivity power of a totally integrated BNA information and technology solution.

To try *BNA's Daily Environment Reporter* E-Mail Summaries FREE for 4 weeks, e-mail your request to RISKFREE@bna.com and reference code ESXX581C3. Or, if you'd like to receive more information on our full line of environment and safety services, call us TOLL-FREE at 1-800-372-1033.

**BNA**

THE BUREAU OF NATIONAL AFFAIRS, INC. | Marking 50 years of Employee Ownership.

Visit our website at <http://www.bna.com/> | 1231 25th Street, NW, Washington, DC 20037

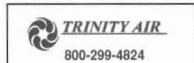
Circle 92 on card.

Air Pollution Control Equipment

Thermatrix Inc



Thiel Air Technologies
Trewin & Smith Inc



Trinity Air Technologies
Turner Enviro Logic Inc
US Filter/Lo-Cat
US Filter/Westates



Vara Intl -
Div of Calgon Carbon Corp
Wheelabrator Air Pollution
Control Inc
Wolverine
(Massachusetts) Corp
SEE AD ON PAGE 80, 156

Air Quality Instrumentation

All Systems Inc
ASC Professionals
Abbottfield Industrial
Training Inc
Acme Engineering Products Inc
Advanced Pollution
Instrumentation Inc
Aerocology
Air Resource Specialists Inc
Baldwin Environmental Inc
Engelhard Corp
Engineered Systems
& Design

Gas Tech Inc

Graseby Andersen Inc
SEE AD ON PAGE 69, 128
Green Tek Inc
HNU Systems Inc
SEE AD ON PAGE 81, 162

Intek Corp
J U M of North America Inc
KVB
Kanomax USA Inc
MIE Inc (Monitoring Instruments
for the Environment)

Met One
Instruments Inc
SEE AD ON PAGE 87, 162
Metrosonics Inc

Mine Safety Appliances Co
Regin Hvac Products Inc
Response Rentals
SENTEX Systems Inc
Spectrex
Staplex Air Sampler Division

Testo Inc
SEE AD ON PAGE 85, 154
Undata America
Wonder Makers Inc
Zellweger Analytics
Zneotronics/Zsolomat

Air Samplers



Air Dimensions Inc
Apex Instruments Inc
Baldwin Environmental Inc



Bios International Corp



CAE Instrument Rental
Dyna-Fid Inc



Entech Instruments Inc
Enviro-Equipment Inc
Environmental
Supply Co Inc
GO Mavs
Green Tek Inc
Intek Corp
K & M Environmental Inc
MIE Inc (Monitoring Instruments
for the Environment)

Microbial Insights Inc
Mine Safety Appliances Co
Premier Safety
& Service Inc
Restek Corp
SEE AD ON PAGE 80, 146
SKC Inc



Spectrex
Staplex Air Sampler Division
Universal Analyzers Inc
Wonder Makers Inc
Zefon Analytical

Air Strippers

Aeromix Systems Inc
Amistco Separation Products
Bisco Environmental
Carbott Corp

Analysis, Gas Chromatography

Clean Gas Systems Inc
Delta Cooling Towers Inc
Eco Services Inc
Ejector Systems Inc
Geotech Environmental
Equipment Inc
Groundwater Recovery
Systems Inc
Hydro Group Inc
NEEP Systems
Onron Enterprises
Trewin & Smith Inc

IATL-International Asbestos
Testing Laboratories
Interlek Testing Services
Environmental Laboratories
Lancaster Laboratories
Midwest Research Institute
Ross Analytical
Services Inc
SGS US Testing Co Inc
Thielsen Engineering Inc
Varian Analytical Instruments

Analysis, Electron Microscopy

Forensic Analytical
HNU Systems Inc
SEE AD ON PAGE 81, 162



IATL-International Asbestos
Testing Laboratories
National Technical Systems
Regulatory Compliance
Management Inc
Thielsen Engineering Inc

Analysis, Gas Chromatography

Ashland Chemical Co



Foxboro Environmental
Inficon
SEE AD ON PAGE 11, 107
Interlek Testing Services
Environmental Laboratories
Lancaster Laboratories
Midac Corp

Air Velocity Meter

ASC Professionals
Climatronics Corp
Control Co
Dwyer Instruments Inc
EPIC Inc
Enviro-Equipment Inc
Environmental
Monitoring Systems
Furness Controls Inc
Kanomax USA Inc

Met One Instruments Inc
SEE AD ON PAGE 87, 162
Omega Engineering Inc
SEE AD ON PAGE 2, 133

Regin Hvac Products Inc
Scientific Sales Inc
Shortridge Instruments Inc
Testo Inc
SEE AD ON PAGE 85, 154

Anaerobic Pretreatment

Biothane Corp
United States Filter Corp

Analysis,
Atomic Absorption
Ecology & Environment Inc
Forensic Analytical

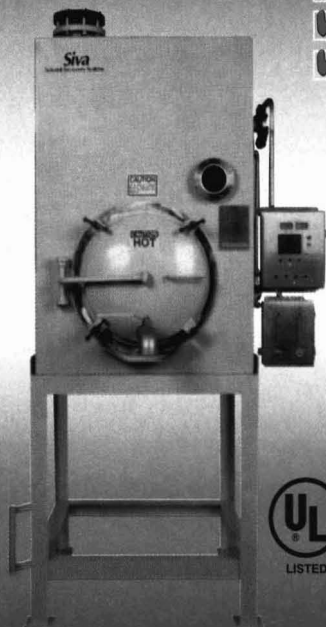
Recover and Recycle Waste Solvents "On-Site"

- ✓ Turn Trash into Cash
- ✓ Reduce Transportation & Disposal Liability
- ✓ Improve Your Waste Generation Status

SIVA Solvent Recovery Systems are designed to recycle almost any solvent from 4 to 1500 gallons per day. SIVA Systems offer environmentally sound solutions with unbelievably quick paybacks.

Siva The most complete line of solvent recovery equipment.

4647 S.W. 40th Ave. • Ocala, Florida 34474
Phone: (800) 593-2550 • Fax: (352) 873-5187



Bringing A World Of Experience To Science And Engineering Consulting.



Golder Associates has a track record that covers a lot of territory – both in terms of geography and diversity. We have built a total package of capabilities by completing over 100,000 civil and geotechnical engineering, environmental, mining, and waste management projects for 25,000 clients in more than 130 countries. Naturally, we're proud of all we've done. But what makes us even prouder (and our clients even happier) is how we've done it – within cost and schedule and with no surprises. Our scope and performance make us well equipped for the challenges faced by our focus sectors in the United States: **Government, Manufacturing, Mining, Power, Solid Waste, and Transportation**. Sure, the needs vary dramatically from one to the other. But when you have a world of experience in your grasp, the right solution is always close at hand.



Golder Associates Inc., 3730 Chamblee Tucker Road, Atlanta, GA 30341, U.S.A., 800-275-3281
Offices worldwide, including 25 throughout the United States.

www.golder.com

Circle 94 on card.

Analysis, Gas Chromatography

National Technical Systems
Professional Analytical &
Consulting Services Inc
Ross Analytical
Services Inc
SGS US Testing Co Inc
Talem Inc
Thielsch Engineering Inc
Toxikon Corp
Varian Analytical
Instruments

**Analysis,
Gas Chromatography/
Mass Spectrometry**
Ashland Chemical Co
Central Wisconsin
Engineers & Architects Inc
Ecology & Environment Inc



Entech Instruments Inc
HML Inc dba Hoosier
Microbiological Laboratory
Inficon
SEE AD ON PAGE 11, 107

Interlek Testing Services
Environmental Laboratories
Lancaster Laboratories
National Technical Systems
Professional Analytical &
Consulting Services Inc
Ross Analytical Services Inc
SGS US Testing Co Inc
Talem Inc
ThermoQuest/
Finnigan Corp
Thielsch Engineering Inc
Toxikon Corp
Varian Analytical
Instruments

Analysis, Liquid Chromatography

Ashland Chemical Co
Interlek Testing Services
Environmental Laboratories
Jones Chromatography Inc
Lancaster Laboratories
National Technical Systems
Ross Analytical
Services Inc
SGS US Testing Co Inc
Toxikon Corp
Varian Analytical Instruments

Analysis, Soil, Air, Water

ATC Associates Inc
Acculab Environmental
Services Inc
American Waste Services Inc
Ashland Chemical Co
Brant Luebbe Inc
Brooks Rand Ltd
Central Wisconsin Engineers &
Architects Inc
Clayton Group Services Inc
Dziurman/Associates PC
Ecology & Environment Inc



Entech Instruments Inc
Environmental Monitoring Systems
Environmental Works Inc
Environmetrics Inc
Forensic Analytical



Foxboro Environmental

Haztech Systems Inc



IATL-International Asbestos
Testing Laboratories
Intek Corp
Interlek Testing Services
Environmental Laboratories
K & S Engineers Inc
Lancaster Laboratories
Microbial Insights Inc
Monitek Technologies Inc
National Technical
Information Service
National Technical Systems
OI Analytical
Pacific Environmental
Services Inc
Precision Analysis Inc
Professional Analytical &
Consulting Services Inc
Quality Assurance Associates
Ross Analytical Services Inc
SENTEX Systems Inc
SGS US Testing Co Inc
Strategic Diagnostics Inc
SEE AD ON PAGE 161

Talem Inc
Target Environmental Services
Thielsch Engineering Inc
Wilks Enterprise Inc

Analytical Instruments

All Systems Inc
ASOMA-WTC
Engineering Inc
Anatel Corp
Auburn International Inc
Automation Products Inc
Bailey-Fischer & Porter Co

Brant Luebbe Inc
Brinkmann Instruments Inc
Cole-Parmer
Instrument Co
Dyna-Fid Inc
EnviroLine Inc
George Fischer Inc
Horiba Instruments Inc
Intek Corp
Interface Design Inc
Midac Corp
Newport Electronics Inc
OI Analytical

Omega Engineering Inc
SEE AD ON PAGE 2, 133

Omegadyne Inc
Orion Research Inc
Panametrics Inc

**Rosemount Analytical Inc/
Uniloc Division**
SEE AD ON PAGE 72, 148

Testo Inc
SEE AD ON PAGE 85, 154

ThermoQuest/Finnigan Corp
Tracker Technologies
Varian Analytical
Instruments

Analytical Instruments, Air

Advanced Pollution
Instrumentation Inc
Alicat Scientific Inc
Brooks Rand Ltd
California Analytical
Instruments
Dyna-Fid Inc
ERD Environmental Inc
**Energy Efficiency
Systems Inc**
SEE AD ON PAGE 59, 177

Engineered Systems
& Design



Entech Instruments Inc



Foxboro Environmental
Gas Tech Inc

Graseby Andersen Inc
SEE AD ON PAGE 69, 128

Green Tek Inc
Horiba Instruments Inc
Inficon

SEE AD ON PAGE 11, 107

Intek Corp
J U M of North America Inc
PE Photovac
SEE AD ON PAGE 79, 144

SENTEX Systems Inc
Sierra Monitor Corp
Testo Inc
SEE AD ON PAGE 85, 154

Wonder Makers Inc

Analytical Instruments, Hazardous Materials

All Systems Inc
Advanced Concepts
& Design Inc



Foxboro Environmental
Haztech Systems Inc

Industrial Wastewater Treatment Systems

- Industrial Waste
- pH Adjustment
- Toxic Metals
- Oil Removal
- Plating Waste
- Ground Water
- Fluoride Removal
- Phenol Oxidation
- Sludge Dewatering
- Cyanide Destruct
- Chrome Reduction
- Suspended Solids



- Single Point Responsibility
- Compact Modular Construction
- Low Installation Cost
- Integrated Controls
- Guarantee

**Custom Designed
to Fit Your
Application**

WATERLINK®
**Great Lakes
Environmental**

• Waste Water Treatment • Vacuum Filter • Inclined Plate Clarifiers • Oil/Water Separators

315 S. Stewart, Addison, IL 60101
Phone: 630-543-9444 • Fax: 630-543-1169
www.gle.com greatlakes@waterlink.com

**IF YOU'RE
RIGHT,
IT COULD BE
AN EMERGENCY.**

**IF YOU'RE
WRONG,
IT COULD BE
A DISASTER.**

HAPSITE in use during a recent emergency situation in Houston, Texas.

HAPSITE® quickly identifies unknown VOCs on-site to help you make the right decision.

A worker gets a headache, someone reports a suspicious smell, a spill takes place nearby, and it's your responsibility to identify the substance and assess the risk. Do you evacuate the plant and sacrifice production time? Do you give the all-clear sign and risk being wrong?

Make the right decision, fast, with HAPSITE—the only portable gas chromatograph/mass spectrometer (GC/MS) that gives confirmatory results on-site. Just carry HAPSITE to the incident area, take a sample, run the analysis, identify the VOCs in minutes, and immediately plan response and correction.

HAPSITE is a totally self-contained GC/MS that detects, speciates and quantifies unknown VOCs. Other detectors, monitors or chromatographs provide some information during an incident, but only HAPSITE positively identifies unknown VOCs fast and on-site, so you can determine risk.

**Make the right decision.
Call today for a free demonstration
or more information.**

Phone: 800-223-0633 Fax: 315-434-2520
http: www.inficon.com E-mail: reachus@inficon.com



OPENING THE FIELD TO NEW IDEAS®

INFICON®

©1998 Leybold Inficon

Analytical Instruments, Hazardous Materials

Interface Design Inc
PE Photovac
SEE AD ON PAGE 79, 144

Analytical Instruments, Rentals

AIL Systems Inc
Intek Corp
Interface Design Inc
SENTEX Systems Inc
Scantek Inc

Analytical Instruments, Wastewater

American Sigma Inc
Arthur Technology Inc
Automation Products Inc
Bio Science Inc
Brant Luebke Inc
Chemetrics Inc
Chemtrac Systems Inc
Engineered Systems & Design
H F Scientific Inc
HNU Systems Inc
SEE AD ON PAGE 81, 162

Hanna Instruments
Hydrolab Corp
SEE AD ON PAGE 64, 126

Intek Corp
Ionics Inc/Instrument Div
Isco Inc
Lakewood Products/Osmotics
Myron L Co
Newport Electronics Inc
Omega Engineering Inc
SEE AD ON PAGE 2, 133
Omegadyne Inc
Orbeco Analytical Systems Inc
Orion Research Inc
PE Photovac
SEE AD ON PAGE 79, 144

R S Technical Services Inc
Rosemount Analytical Inc/
Unilco Division
SEE AD ON PAGE 72, 148
SENTEX Systems Inc
Thel-Mar Co
ThermoQuest/Finnigan Corp



Turner Designs
Wilks Enterprise Inc

Analytical Instruments, Water

Anatol Corp
Brant Luebke Inc
Brooks Rand Ltd
Capital Controls Co Inc
Chemetrics Inc
Chemtrac Systems Inc
George Fischer Inc
Global Water
H F Scientific Inc



Hach Co
Hanna Instruments
Hydrolab Corp
SEE AD ON PAGE 64, 126

Intek Corp
Interface Design Inc
Ionics Inc/Instrument Div
Lakewood Products/Osmotics
Myron L Co
Newport Electronics Inc
OI Analytical

Omega Engineering Inc
SEE AD ON PAGE 2, 133
Omegadyne Inc
Orbeco Analytical Systems Inc
Orion Research Inc
PE Photovac
SEE AD ON PAGE 79, 144
Rosemount Analytical Inc/
Unilco Division
SEE AD ON PAGE 72, 148

Taylor Technologies Inc
Thel-Mar Co
ThermoQuest/Finnigan Corp
Wilks Enterprise Inc

Analytical/Research Services

ABR Inc
AIL Systems Inc
Betz Dearborn
Brooks Rand Ltd
Environmental Compliance Consultants Inc
HML Inc dba Hoosier
Microbiological Laboratory
Hyde Consultants Inc
Lancaster Laboratories
Midwest Research Institute
SGS US Testing Co Inc
Thiellsch Engineering Inc

Annunciators/Alarms

Acme Engineering Products Inc
Dancer Communications Inc
Omega Engineering Inc
SEE AD ON PAGE 2, 133
Protectorwire Co Inc

Aquifer Restoration

CleanOX Environmental Services Inc
Earthsource Consulting Inc
Environmental & Information

Resources Inc
Forrester Group Inc
Kornex-H2O Science
Leggett, Brashears & Graham Inc
Mark Schultz Associates
NES Inc
P E LaMoreaux & Associates
TRAK Environmental Group Inc

Asbestos Abatement Services/Equipment

A R Manufacturing & Supply Inc
APEX Environmental Services Inc
Aires Consulting Group Inc
BEM Systems Inc
Beling Consultants
Boelter & Yates Inc



Bonding & Insurance
Specialists Inc
Dewberry & Davis
Eco Solv Inc
Environgenics
Environmental Monitoring Systems
Evergreen Environmental Group
Forensic Analytical
Health & Hygiene/ELB



IATL-International Asbestos Testing Laboratories
MIE Inc (Monitoring Instruments for the Environment)

Bacteria/Enzymes

Moshman Environmental Engineering
Mountain Valley Ventures Inc
Mystic Air Quality Consultants Inc
Nassef Engineering & Equipment Co Inc
Neotek Health Technologies Inc
North Safety Products
Occusafe Inc
Optimal Technologies Inc
PacTec Inc
Pacific Environmental Services Inc
Packaging Research & Design
R B Consulting Services
SBP Technologies Inc
Staplex Air Sampler Division
University of Texas at Arlington/Environmental Research
Versar Inc
Zefon Analytical

Auditing



STAR Consultants Inc

Backflow Preventers

Eco Services Inc
Flomatic Valves
Red Valve Co Inc

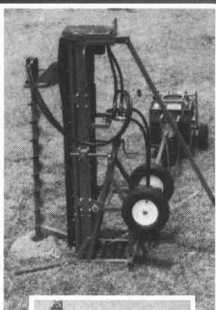
Bacteria/Enzymes

Betz Dearborn
Bio Science Inc
Bio-Systems Corp
EEC USA Inc
Hydrocarbon Environmental Recovery Systems

Drill Where You've Never Drilled Before

One Man Portability for Soil Sampling, Testing and Well Monitoring

- Removable from wheeled frame for mounting on truck, trailer or crawler.
- Powerful – maximum 100 ft. depth with 6" O.D. auger; 28 ft. with 16" O.D. auger.
- Reliable – proven Model PS-18 general purpose hydraulic power source.
- Swing-away drill head for sampling and soil-testing.



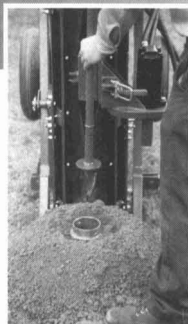
Hollow Stem Auger... Tough, yet Lightweight

Built for Speed

- Half the weight of other hollow stem auger systems.
- Easier to pick up, carry, attach, and fit to the drill stem so jobs go faster.

Rugged and Modular

- Tough, ductile mild steel augers and blades, hardfaced for durability.
- Replaceable cutting blade inserts of hardfaced steel or carbide.



Designed for use with the Big Beaver (as shown) or other Hydraulic Earth Drills manufactured by Little Beaver, Inc. Consult the Little Beaver Engineering Department for information on the use of the Hollow Stem Module with other drills.

Send today for product information (409) 327-3121



Little Beaver, Inc.

P.O. Box 840 • Livingston, TX 77351
Phone: (409) 327-3121 • Fax: (409) 327-4025
Internet: www.littlebeaver.com



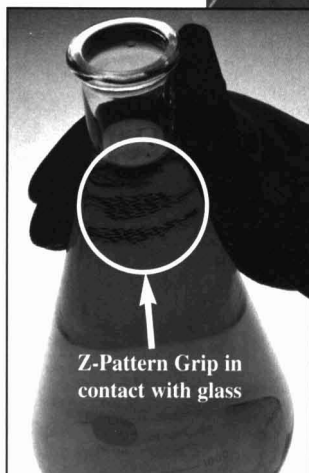
Only MAPA HELPS YOU GET A GRIP

*with a Z-pattern embossed-grip
glove, the heavy gauge 100%
Neoprene Chem-Ply, used*

ON TOXIC

*compounds such as MEK,
methylene chloride, and HF,
known severe skin and health*

HAZARDS!



Z-Pattern Grip in
contact with glass



Compare the new MAPA Professional Chem-Ply chemical-barrier glove to exotic-polymer gloves such as Viton and Butyl-rubber costing two to six times as much. The Chem-Ply's 100% Neoprene construction guarantees long life against toxic chemical permeation. Available in three different gauges, the Chem-Ply lets you match the glove to the job. Choose the heavy 40-mil N-540 against severe hazards such as Haz-Mat work or aggressive solvents, or the lighter 22-mil

N-360 or 30-mil N-440 when more flexibility and dexterity are required. Both the 13" and the **NEW** 18" versions, N-730 and N-740 (available fall '97), feature MAPA's exclusive Z-pattern embossed grip to channel fluids off the working surface, to insure a secure grip. 30- and 40-mil Chem-Ply gloves meet strict NFPA standards for protective clothing. If toxic chemical hazards are causing you to *lose your grip*, call **MAPA Customer Service** today!

MAPA[®]

PROFESSIONAL

PIONEERS IN HAND PROTECTION

512 East Tiffin St. • Willard, OH 44890 • 1-800-537-2897 • Fax: 1-800-537-3299 • e-mail: sales@mapaglove.com • <http://www.mapaglove.com>

Circle 98 on card.

Bacteria/Enzymes

Nalco Chemical Co
Odor Control Co Inc
Phyto Works Inc
Serengeti Environmental
Sybron Chemicals Inc

Bacteriological Supplies

BASYS
800-254-5525

Basys Technologies
SEE AD ON PAGE 85, 157
Hydrocarbon Environmental
Recovery Systems

Baffles/Booms

Envirotechnics Inc
Kepner Plastics Fabricators Inc
MPC Containment
Systems Ltd
Slickbar Products Corp
Sorbert Products Co Inc
Warmister Fiberglass Co
Zorbit Technologies Inc

Baghouse Monitoring

Auburn International Inc



Automation Products Inc
Bayou City Pump Works Inc



Datatest Inc
K C S Environmental Corp
MIE Inc (Monitoring Instruments for
the Environment)
Optimal Technologies Inc

Baghouses



Airotech Inc

ERS Services Inc
Flex-Kleen
K C S Environmental Corp
McGill Airclean Corp
Morlan & Morlan Inc
Pneumafil Corp
Thiel Air Technologies
Trewin & Smith Inc
Wheelabrator Air Pollution
Control Inc

Balances

Apex Instruments Inc
Ohaus Corp

Balers

AMS Inc
Ameri-Shred Corp
Bes-Pac Inc
J V Manufacturing Inc/
"Crane-A-Lot"
Jensen Inert Products
Morlan & Morlan Inc
P J Products Co
SSI Shredding
Systems Inc

Boilers

VOSS Products
800-247-6294

Voss Technologies Inc

Barriers

IFX
Louis R Hovater
Consulting Engineer
Slickbar Products Corp
U O Equipment Co

Batching/Blending Systems

Automation Products Inc
Hersey Measurement Co
K-Tron America Inc
Process Packaging & Control Inc
Roberts & Schaefer Co

Bentonite

Koester Environmental
Services Inc
Louis R Hovater
Consulting Engineer

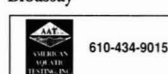
Bin Discharger

Automation Products Inc
P J Products Co
Process Packaging & Control Inc

Bin/Hoppers

Brown-Minneapolis Tank/div of ITEQ
Storage Systems
Chem-tainer Industries
Process Packaging & Control Inc
Smalis Conveyors

Bioassay



American Aquatic Testing Inc
BioRenewal Technologies Inc
Commonwealth Biomonitoring
Environmental Risk Ltd
Microbial Insights Inc
Normandeau Associates

Biological Testing Apparatus/Supplies

Arthur Technology Inc
Sybron Chemicals Inc

Bioremediation

ABR Inc
Advanced Geoservices Corp
Allied Signal Environmental
Systems & Services
Atlantic Screen & Mfg Inc
Betz Dearborn
Bio Science Inc
Bio-Reaction Industries Inc
Bio-Systems Corp
BioRenewal Technologies Inc
Blasland, Bouck & Lee Inc
Brown & Caldwell
Carson Geologic &
Environmental Inc



Dames & Moore Group
Dewberry & Davis
Dziurman/Associates PC
EEC USA Inc
Eckenfelder Inc
Eco Services Inc
Environmental & Information
Resources Inc
Environmental Mitigation Group
Environmental Resources
Management
Environmental Technology Inc
Environmental Works Inc
Evergreen Environmental Group
GeoCore Services Inc
Golder Associates Inc
SEE AD ON PAGE 27, 105

Groundwater Recovery
Systems Inc
HML Inc dba Hoosier
Microbiological Laboratory
Harding Lawson Associates
HazWaste Technologies Corp
Hydrocarbon Environmental
Recovery Systems
Institute Environmental
Technologies Inc
International Technology Corp
Leggett, Brashears &
Graham Inc
Metropolitan Manufacturers
Association
Microbial Insights Inc
NES Inc
Petro-Green Inc
Phyto Works Inc
Pollution Research &
Technology Inc

Probiotic Solutions

SEE AD ON PAGE 63, 144
Radiac Environmental Services
Regulatory Compliance
Management Inc
Resource Management
Group Inc
SBP Technologies Inc
Safety & Environmental
Resources Inc
Scarab Manufacturing &
Leasing Inc
Schumacher Filters America Inc
Serengeti Environmental
Solvay Interco Inc
Sybron Chemicals Inc
TRAK Environmental Group Inc
Target Environmental Services
Taylor Environmental
Products Inc
SEE AD ON PAGE 60, 159
Terra Systems Inc
US Filter/Envirex
Universal Fabric Structures
Voss Technologies Inc
Walsh Environmental Scientist &
Engineers Inc

Biostimulants

Probiotic Solutions
SEE AD ON PAGE 63, 144

Blowers

Ametek-Regenerative
Blower Group



Ametek-Rotron Biofiltration
Bisco Environmental
Fuji Electric Corp of America
IFX
Neoterik Health
Technologies Inc
New York Blower Co
Tristate Machinery Co
Wm W Meyer & Sons Inc

BOD Test Equipment

Bio Science Inc
Columbus Instruments



Hach Co
Isco Inc
Orion Research Inc
Taylor Technologies Inc
Wilkins-Anderson Co

Boiler Feedwater Treatment Equipment

Bryan Boiler
GE Co

Boilers

Acme Engineering Products Inc
Bacharach Inc
Boiler & Burner Systems

The problem — sheen

WE KNOW YOU'VE HEARD IT BEFORE.
Take it from one of our customers, "Previous products that have made claims like yours were an endless source of disappointment. Since we have been using sheen devil™ and other mother™ products, in our remediation program, not only has our effectiveness gone from 20% to 100% but our cost has been reduced from 10K/week for MBPP technology to 4K/week in sheen devil™ and other mother™ products."

The solution

PATENTED CHEMISTRY makes our products different. Our patents #5437793 and #5698139 are for a new class of molecule which allows the oil to adhere immediately, instantly rendering oil hydrophobic and viscoelastic thereby preventing sinking, emulsification, weathering and tarball formation.

Let Us Prove It!

sheen devil™ Stops Sheen On Contact

- Instantly Attaches To Sheen And Will Not Let Go
- Does Not Absorb Water
- Weights Only 1 lb. Per 10 Feet
- Minimizes Waste Costs
- Easily Deployed & Retrieved

mother™ has a full line of products to handle all types of oil related pollution from heavy oil to sheen.

CALL US NOW AT
1-888-30-MOTHER
FAX 770-534-3117
1124 Purina Drive
Gainesville, GA 30501



NEW SOLUTIONS FOR OLD RESEARCH PROBLEMS



It takes more than conventional research solutions to do the job

right. With more and more legislative developments, case decisions, and agency actions making it harder and harder for you to keep up with new directions in the environmental law and practice, what you need are *innovative* research solutions.

So start your research with **ELR — The Environmental Law Reporter**. Just a few clicks of the mouse lets you jump to and from news and analysis,

cases, litigation documents, administrative materials, CFR, federal statutes, and state regulations and statutes. An industry newsletter keeps you abreast of what's new, what's working, and what's best for your practice.

Looking for that elusive agency document? No problem. **ELI Guidance & Policy Document Reporter** provides over 3,000 hard-to-find agency guidance and policy documents — complete with incisive analysis from the agency staff. A Subject Matter Index sorts the documents into topical and sub-topical federal environmental areas for easy access.

Developed by the Environmental Law Institute, these state-of-the-art CD-ROMs help you get a lot more information from an ever-expanding environmental field. Prime examples of how innovative tools can make a big difference in your practice.

For a free no-risk demonstration of **ELR — Environmental Law Reporter** and **ELI Guidance & Policy Document Reporter**,

Call: 1-800-255-2549.



Circle 100 on card.

Boilers

Bryan Boiler
K C S Environmental Corp
Tristate Machinery Co

Burners

Boiler & Burner Systems
ERS Services Inc
John Zink Co
K C S Environmental Corp

Bushings

UPE Universal Process
Equipment Inc

Calibration



Bios International Corp
Environmental
Monitoring Systems
Furness Controls Inc
G O Environmental Inc
Kin-Tek Inc
Newport Electronics Inc
Omega Engineering Inc
SEE AD ON PAGE 2, 133

Omegadyne Inc
Petroleum Systems
Services Corp
Response Rentals
UVP Inc

Carbon Adsorption

Amec Inc
Bisco Environmental
Calgon Carbon Corp
Carbtrol Corp
Clean Gas Systems Inc
Eco Services Inc
Envirotrol Inc
General Carbon Corp



Goal Line Environmental Technologies
SEE AD ON PAGE 76, 130
Highland Tank
& Manufacturing Co
Hudson Industries
Hydro Quip Inc
Misonix Inc
SEE AD ON PAGE 18, 143
NEEP Systems
Professional Analytical
& Consulting Services Inc
REECO
RaySolv Inc
ResinTech Inc
US Filter/Westates



Vara Intl-Div of Calgon
Carbon Corp
Western Filter Products/Osmonics
Westport Environmental Systems

Carbon Dioxide Detectors

AIM Safety USA Inc
ASC Professionals
Acme Engineering Products Inc
Advanced Pollution
Instrumentation Inc
Bacharach Inc
CEA Instruments Inc
California Analytical Instruments
Cherokee Instruments Inc
Columbus Instruments
Enmet Corp
Enviro-Equipment Inc



Foxboro Environmental
Gas Tech Inc
Industrial Scientific Corp
Metrosonics Inc
Mil-Ram Technology Inc
SKC Inc
Sierra Monitor Corp
Zellweger Analytics
Zneotronics/Zsolomat

Carbon Monoxide Detectors

AIM Safety USA Inc
ASC Professionals
Acme Engineering Products Inc
Bacharach Inc
Biosystems Inc
CEA Instruments Inc
California Analytical
Instruments
Cherokee Instruments Inc
Columbus Instruments
Control Instruments Corp
Detector Electronics Corp
EIT

Energy Efficiency Systems Inc
SEE AD ON PAGE 59, 157
Enmet Corp
Enviro-Equipment Inc



Foxboro Environmental
Gas Tech Inc
General Monitors
Industrial Scientific Corp
K & M Environmental Inc

Land Combustion
SEE AD ON PAGE 50, 147



MST-Modern
Safety Techniques
Metrosonics Inc
Mil-Ram Technology Inc
Mine Safety Appliances Co
RAE Systems Inc
SKC Inc
Scott Health & Safety
Sierra Monitor Corp
US Industrial Products Co
Zellweger Analytics
Zneotronics/Zsolomat
Zellweger Analytics Inc

Carbon Reactivation

Advanced Environmental
Recycling Co LLC



Barnebey & Sutcliffe Corp



Envirotrol Inc
General Carbon Corp
US Filter/Westates

Carbon Regeneration Systems

Barnebey & Sutcliffe Corp
General Carbon Corp
Onron Enterprises

US Filter/Envirex
Vara Intl -
Div of Calgon Carbon Corp

Catalysts

Advanced Environmental
Recycling Co LLC
Awest Technologies Inc
SEE AD ON PAGE 28, 153
Engelhard Corp



Goal Line Environmental Technologies
SEE AD ON PAGE 76, 130
Hi Temp Technology Corp



Johnson Matthey
Environmental Products



Monsanto
Enviro-Chem Systems



Prototech Co
SEE AD ON PAGE 29, 31, 145, 147
Wolverine (Massachusetts) Corp
SEE AD ON PAGE 80, 156

Cathodic Protection Equipment

Atlantic Screen & Mfg Inc

Introducing an Easier Way to Monitor and Respond to the Regs Affecting Your Operation.

As a top decision maker in multi-state operations, you are responsible for regulatory compliance, technology and environmental management issues. That's why you should know about Keller's RMR™, Regulatory Monitoring and Reporting. It's a newly refined, cost-effective process that can be applied to any bodies of federal, state or local agency regulations – and translates complex information into simplified tasking activities that help assure your company's compliance.

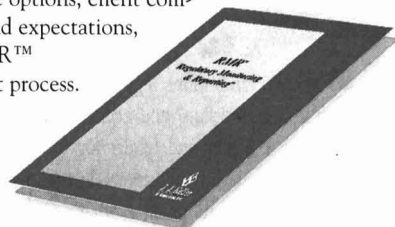
The RMR™ Process.

Keller uses a team of dedicated specialists who work on identified regulations that affect your business, track changes, and simplify requirements to focus on "how to comply" – then deliver results via your choice of media (electronic and/or print). It's that easy.

Any company affected by EPA, OSHA or DOT regulations, state or federal levels, and who has multi-state sites, can benefit from Keller's RMR™ process.

Get a FREE Prospectus.

Call toll-free, 1-800-685-2391, to order a FREE, 8-page RMR™ Prospectus. It contains the details, some options, client commitments and expectations, and the RMR™ management process.



Visit Keller online at:
www.jjkeller.com



J. J. Keller
& Associates, Inc.

Action Code 00609

3003 W. Breezewood Lane, Neenah, WI 54957



It's easy
to be
hands-on
in the field

5 8 0 E Z



The Portable PID that's a generation ahead...

- Detection of soil and water contaminants
- Leaking underground storage tanks
- Industrial hygiene monitoring

We put it in the name because we meant it.... 580 EZ. It's the easiest hand-held Photo Ionization Detector (PID) to use, with all the quality features that Thermo Environmental Instruments products are known for. It's easy to hold, easy to read and most importantly, the software is easy to use. Even for the newest person in the field. Still, you are always backed by a team of expert advisors for general questions and technical support.

So before you and your crew head out to your next site, call 508-520-0430 for more information on how to get the 580-EZ in your hands. It will make your day in the field go that much easier.

**Thermo Environmental
Instruments Inc.**

**Please call 508-520-0430
for more information or a demonstration**

Carter, Darnell & Grubbs
Engineers Inc
Tracer Research Corp
SEE AD ON PAGE 68, 118

Centrifuges

Barrett Centrifugals Inc
Bird Machine Co
CING
Kem-Tron Technologies Inc
Pennwalt India Ltd
RevPro/Div of PRO Scientific Inc
Sevenson Environmental
Services Inc
Tristate Machinery Co
UPE Universal Process
Equipment Inc

Chemical Information

Alfa Laval Sharples
American Institute of
Chemical Engineers
CPI Electronic Publishing
Chemical Information System
Columbus Instruments
Dynalene Heat Transfer Fluids
Envirogenics
Essential Technologies Inc
SEE AD ON PAGE 52, 101
Genium Publishing Corp
IHS Environmental
Information
MEGA Systems & Chemicals
Marketing Counselors
International Inc
National Technical
Information Service
Oxford Molecular
Group Inc/CIS
Quality Assurance Associates
Roehrig & Associates Inc
Ronald L Beethe, CIH
Western Research Institute

Chemical

Storage Buildings

Easi-Set Ind
Environmental
Compliance Products
Foss Environmental Services
General Container Corp



HAZ-SAFE
Buildings by Design
412-353-0300

Haz Safe Buildings
SEE AD ON PAGE 160

Justite Manufacturing Co
Plasti-Fab Inc
RGF Environmental
Systems Inc
Rubb Inc
Safety Storage Inc
Tri-State Environmental
Products & Equipment
Universal Fabric Structures
Warminster Fiberglass Co
Waste Control Systems Inc
Youngstown Barrel & Drum

Chemicals

Accustandard Inc
Betz Dearborn
Chem Service Inc
Cytec Industries Inc
Degussa Corp
Dynalene Heat
Transfer Fluids
Eco Solv Inc
Engelhard Corp
GE Co
General Chemical Corp
J T Baker,
A Div of Mallinckrodt Baker Inc
MEGA Systems
& Chemicals



**Martin Marietta Magnesia
Specialties Inc**
SEE AD ON PAGE 165

Miox Corp
Nalco Chemical Co
Odor Control Co Inc



**PREMIER
SERVICE CORPORATION**
800-227-4287

Premier Services Corp
S C Altman & Associates
Solvay Interex Inc
Ultra Scientific
Water Remediation Technologies

Chillers

Baldwin Environmental Inc
Dynalene Heat Transfer Fluids
Edwards Engineering Corp
Mountain Valley Ventures Inc
Pace Environmental Products Inc

Chlorination Equipment

Blue-White Ind
Capital Controls Co Inc
Chlorinators Inc
Mazzei Injector Corp
SEE AD ON PAGE 87, 160
Miox Corp
Neptune Chemical Pump Co
US Filter/Stranco
US Filter/Wallace & Tiernan

Chlorine Detectors

Biosystems Inc
Brant Luebbe Inc

Capital Controls Co Inc
Chlorinators Inc
Detector Electronics Corp
Enmet Corp
Gas Tech Inc
General Monitors
H F Scientific Inc



HACH
800-227-4224

Hach Co
K & M Environmental Inc
Mii-Ram Technology Inc
Mine Safety Appliances Co
RAE Systems Inc
Scott Health & Safety
Sierra Monitor Corp
US Filter/Wallace & Tiernan

Chlorine Scrubbers



**U.S. FILTER
R.J. ENVIRONMENTAL**
619-455-7688

US Filter/
RJ Environmental

Chromatographs

Brinkman Instruments Inc
PE Photovac
SEE AD ON PAGE 79, 144
SRI Instruments

Clamps, Pipe

Midland Metal Mfg Co
Plasti-Fab Inc

Clarifiers

Alfa Laval Sharples
Clean Gas Systems Inc



Flo Trend Systems Inc
Gemstone Environmental
Great Lakes
Environmental Inc
SEE AD ON PAGE 84, 106

Hydro Quip Inc
HydroCal Inc
Jeffrey-Tropodyne
Landa Water Cleaning Systems
Pall Corporation
Pennwalt India Ltd
Philip ServicesCorp/Industrial
Services Group
**Taylor Environmental
Products Inc**
SEE AD ON PAGE 60, 159
US Filter/Davco
US Filter/Envirex
Unipure Environmental
Western Filter Products/Osmosics

Clarifier Drive Units

Harmonic Drive Technologies
US Filter/Envirex

Clean Rooms/Supplies

Georgia Steel &
Chemical Co Inc
ILC Dover Inc
SEE AD ON PAGE 123, 141
Kappler Protective Apparel
& Fabrics
Mapa Professional
SEE AD ON PAGE 109, 187
Newport Electronics Inc
North Safety Products
Omega Engineering Inc
SEE AD ON PAGE 2, 133
Terra Universal Inc

Your global training experts for ISO 14000

Interactive sessions.

Learn by *doing*, not just listening.

Customized training.

You learn what you want to know.

Experience.

Learn from environmental professionals with over 20 years' experience.

Knowledge.

We have in-depth knowledge of US regulatory framework and legal processes.

Credentials.

Excel Partnership was the first training company to receive EARA approval for the 5-day Advanced EMS Auditor Course for both Quality and Environmental Professionals.

On-Going Support.

Our experts offer guidance in the planning, application and implementation in all aspects of your EMS.

FREE Booklet
ISO 14000: The Answers to your Questions
call 1-800-374-3818 ext. 236

ISO 14000 Overview

One-Day Course ■ \$295 ■ .7 CEUs
April 13, 1998 - Englewood, NJ
May 4, 1998 - Seattle, WA

Understanding Environmental Regulations

Two-Day Course ■ \$795 ■ 1.4 CEUs
April 14-15, 1998 - Englewood, NJ
May 5-6, 1998 - Seattle, WA

Developing and Implementing an ISO 14001 EMS

Three-Day Course ■ \$995 ■ 2.1 CEUs
April 6-8, 1998 - Houston, TX
April 28-30, 1998 - Atlanta, GA
May 11-13, 1998 - Wilmington, DE

Implementing an ISO 14001 EMS for Quality Professionals

Two-Day Course ■ \$795 ■ 1.4 CEUs
April 6-7, 1998 - Providence, RI
April 16-17, 1998 - Englewood, NJ

EMS Internal Auditor

Two-Day Course ■ \$795 ■ 1.4 CEUs
April 16-17, 1998 - Houston, TX
May 14-15, 1998 - Wilmington, DE



NAP Accredited Advanced EMS Auditor Course
for both Quality and Environmental Professionals

Five-Day Course ■ \$1995 ■ 4.0 CEUs
April 20-24, 1998 - Wood Dale, IL
April 27-May 1, 1998 - Auburn Hills, MI

EXCEL
PARTNERSHIP, INC.

75 Glen Road, Sandy Hook, CT 06482
(203) 426-3281 Fax (203) 426-7811
<http://www.xlp.com>



**“New things are made familiar,
and familiar things are made new.”**

Samuel Johnson, 1709-1784

While it's true that change is inevitable, it can be a more comfortable process if you have a partner you trust to help you manage it. Rust Environment & Infrastructure is a familiar part of the engineering and scientific services landscape, and for nearly 90 years we've grown and changed along with our customers.

Because we make it our business to know your business, we're able to transform leading-edge technology into common sense solutions to your evolving environmental and infrastructure challenges.

For more information about our multidisciplinary capabilities, contact your local Rust office, call 1-800-868-0373 or visit us online at www.rustei.com.

RUST

Rust Environment & Infrastructure

Cleaning Equipment/Supplies

Cleaning

Equipment/Supplies

Butterworth Jetting Systems Inc
Georgia Steel & Chemical Co Inc
Landa Water Cleaning Systems
Mincy Inc
New Pig Corp
Odor Control Co Inc
Petro-Green Inc
RMT Machinery Inc
S C Altman & Associates
SRS Industrial Engineering Inc
Safetec of America Inc
Solvent-Kleene Inc
Sorbert Products Co Inc

Cleaning/

Flushing Services

MPC Environmental
Whitford Environmental Services

Clothing, Protective

ABBS/Guard-Dogs
Andax Environmental Corp

Carhartt Inc
Direct Safety Co Inc
Envirogenics
Guardian Manufacturing Co
ILC Dover Inc

SEE AD ON PAGE 123, 141
Iron Age Safety Shoes
Kappler Protective Apparel & Fabrics
Mapa Professional

SEE AD ON PAGE 109, 187
Mar Mac Manufacturing Co Inc
Mountain Valley Ventures Inc
New Pig Corp
Occupational Training & Supply Inc
Racal Health & Safety Inc
Ronco Textile Products Inc
Voss Technologies Inc
Workplace Safety Products

Coagulation

Kem-Tron Technologies Inc
Nalco Chemical Co

Coatings/Linings

Abresist Corp

BBS Corp
C B P Engineering Corp
Carboline Co
HPG International Inc
ITW Devcon Engineered Coatings
Louis R Hovater
Consulting Engineer
MPC Containment Systems Ltd
Mincy Inc



Morton International
PolySpec Corp
Powder Coating Institute
RadTech International
North America

COD Instrumentation

Bio Science Inc
Brant Luebke Inc
Chemetrics Inc
Ionics Inc/Instrument Div
Orbeco Analytical Systems Inc

Colorimeters

Brant Luebke Inc
Brinkmann Instruments Inc
Chemetrics Inc
H F Scientific Inc

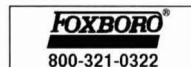


Hach Co
Hanna Instruments
Monitek Technologies Inc
Orbeco Analytical Systems Inc

Combustible

Gas Detectors

AIM Safety USA Inc
Bacharach Inc
Biosystems Inc
CEA Instruments Inc
Control Instruments Corp
Direct Safety Co Inc
Energy Efficiency Systems Inc
SEE AD ON PAGE 59, 157
Enmet Corp



Foxboro Environmental
Gas Tech Inc
General Monitors
Grace Industries Inc
Industrial Scientific Corp
Metrosonics Inc
Mil-Ram Technology Inc
RAE Systems Inc
SKG Inc
Scott Health & Safety
Scott Specialty Gases
Sierra Monitor Corp
US Industrial Products Co
Zellweger Analytics Inc
Zellweger Analytics
Zneotronics/Zsolomat

Combustion Control Instruments

Automation Products Inc
Boiler & Burner Systems
Hi Temp Technology Corp
K C S Environmental Corp
Trewin & Smith Inc

Combustion Monitors

SEE AD ON PAGE 50, 166

Communication Equipment

Con-Space Communications Inc
GTE Corp
Magellan Systems Corp
RACO Engineering & Manufacturing
Scott Health & Safety
Setcom Corp

Communitors/Grinders

Helken Equipment Co
JWC Environmental



Seepex Inc
Wyssmont Co Inc

Compactors

Bes-Pac Inc
Bucks Fabricating
J V Manufacturing Inc/
"Cram-A-Lot"
Justite Manufacturing Co
Koester Environmental Services Inc
PBR Industries
RMT Machinery Inc
SRS Industrial Engineering Inc
SSI Shredding Systems Inc
Tri-State Environmental
Products & Equipment
Waste Control Systems Inc

Computer Modeling

Composting Systems

G B Wilson Associates Inc
Scarab Manufacturing & Leasing Inc

Compressors



Air Dimensions Inc
Atlantic Fluidics Inc

Computer Control

ASOMA-WTC Engineering Inc



Adrian Brown Consultants Inc
Aspen Technology Inc
Bristol Babcock Inc
Cochrane Associates Inc
Cortec Systems Industrial Corp
Omega Engineering Inc
SEE AD ON PAGE 2, 133

Software Certification Institute
Teledyne Brown Engineering
Control Applications
Zone Automation

Computer Databases



A V Systems Inc
SEE AD ON PAGE 29, 153

Air Resource Specialists Inc
CPI Electronic Publishing
Carolina Global Maps
Chemical Information System
Cochrane Associates Inc
Donley Technology
E Data Resources Inc
EH&S RegSmart
Eco Analysis Inc
EnviroData Solutions Inc
Envirogenics
Environmental Personnel Agency
Environmental Software
Resource Guide
Environmental Support Solutions
Government Institutes Inc
Groundwater Services Inc
H2NS Environmental Inc
Modern Technologies Corp
N B Olewine Co Inc
National Technical
Information Service
Oxford Molecular Group Inc/CIS
Pacific Environmental Services Inc
Pacific Environmental Services Inc
Quantum Compliance Systems Inc
SEE AD ON PAGE 13, 131

Rosengarten, Smith & Associates Inc
STAR Consultants Inc
Solutions Software Corp

Vista Information Systems Inc

SEE AD ON PAGE 71, 150

Waid & Associates

West Group

SEE AD ON PAGE 4, 111

Western Research Institute
Wixel

Computer Devices

Cochrane Associates Inc
Environmental Software
Resource Guide
GNM Inc
H2NS Environmental Inc
Newport Electronics Inc
Omega Engineering Inc
SEE AD ON PAGE 2, 133
TISCOR

Computer Modeling (Air, Groundwater, Hazard & Risk)

A B B Environmental Services Inc
Air Resource Specialists Inc

LESS IS MORE!

LESS containers needed

1 Bonanza replaces four 55-gallon drums.

LESS disposal costs

34# for 1 empty Bonanza; 200# for 4 drums.
Save up to 40%.

LESS storage space

330 Bonanzas (1 truckload) = 1320 drums (8 truckloads)

LESS handling

Manifest, label and handle 1 Bonanza instead of 4 drums.

= More Profit For You!

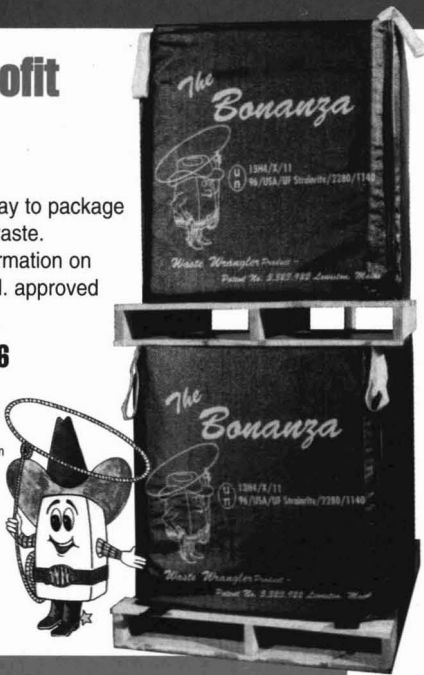
The Bonanza:

A cost effective way to package your hazardous waste.

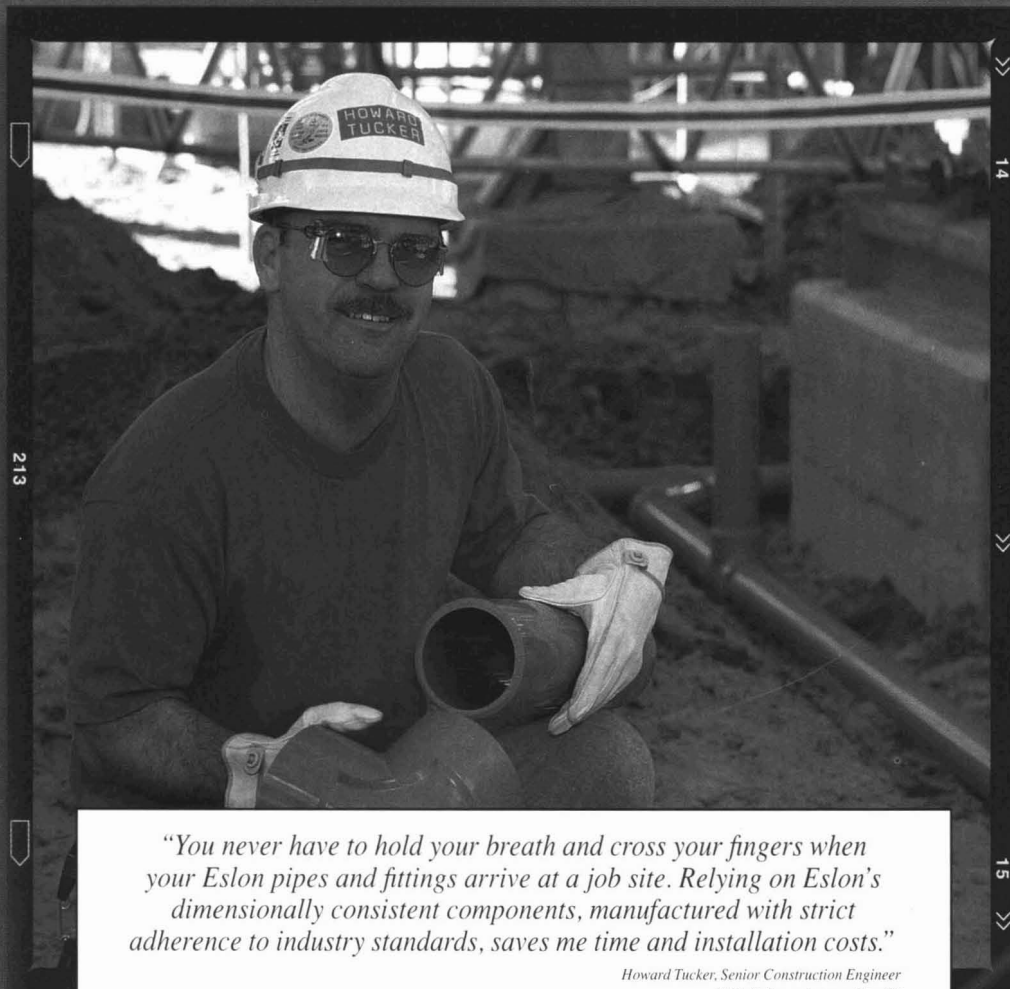
Call for more information on our full line of U.N. approved Waste Wranglers.

1-800-487-3136

U.F. Strainrite, Inc.
48 Commercial St.
Lewiston, ME 04241
Email: ufs@exploremaine.com



"What I Like About Eslon Is How Precisely Their Pipes & Fittings Fit."



"You never have to hold your breath and cross your fingers when your Eslon pipes and fittings arrive at a job site. Relying on Eslon's dimensionally consistent components, manufactured with strict adherence to industry standards, saves me time and installation costs."

Howard Tucker, Senior Construction Engineer
M.W. Kellogg, League City, TX

Piping solutions should solve problems, not create them. That's why specifying pipes and fittings made to work together by a single manufacturer makes such good business sense.

Eslon was the first manufacturer licensed to produce **both** pipe and fittings from **Corzan™ CPVC** engineered plastic. Online quality control and sophisticated laboratory testing assure that all of our products meet exceptionally high standards for dimensional accuracy, mechanical strength and surface finish.

Why suffer through an on-site surprise? When you specify components for your most critical piping applications, Eslon is the only name you need to know.

Total quality. Product availability. And superior technical support. It all comes together with Eslon.

Eslon Thermoplastics
PO Box 240696, Charlotte, NC 28224
1-800-578-7681, 704- 889-2431
FAX: 704-889-2810
www.eslon.com



Quality. Service. Leadership.

Corzan is a trademark of The BF Goodrich Company and is registered or under application in various countries of the world.

Computer Modeling

Aspen Technology Inc
August Mack
Environmental Inc
BDM International Inc
BEE-Line Software
Boelter & Yates Inc
Burns & McDonnell Waste
Consultants Inc
Computational Mechanics Inc
Dahl & Associates Inc
Dames & Moore Group
ENSR
Enercon Services Inc
Entrix Inc
Environmental & Information
Resources Inc
Environmental Dimensions Inc
Environmental Risk Ltd
Environmental Science
Services Inc
Environmental Software
Resource Guide
Environmental Systems &
Technologies Inc
Environmental Technologies Inc

Essential Technologies Inc
SEE AD ON PAGE 52, 101
Golder Associates Inc
SEE AD ON PAGE 27, 105
Groundwater Services Inc
Haestad Methods
Hands & Associates Inc
HydroQual Inc
International Technology Corp
J L & Associates
Komex-H2O Science
Laurel Environmental Associates Inc
Leggett, Brashears & Graham Inc
Morrison Knudsen Corp
National Technical
Information Service
Optimal Technologies Inc
Pacific Environmental
Services Inc
Pantera Environmental
Consulting/Real Estate Recovery
Penn Environmental
& Remediation Inc
Rockware Inc
Rocky Mountain Consultants Inc

Ronald L Beethe, CIH
SSOE Inc
Tahoe Design Software
Tetra Tech NUS
WCM Group Inc
WES Corp



Waid & Associates
Western Research Institute

Computer Software, Management



A V Systems Inc
SEE AD ON PAGE 29, 153
American Institute of
Chemical Engineers
Aspen Technology Inc

CPI Electronic Publishing
Carolina Global Maps
Cochrane Associates Inc
Computer Guidance Corp
Corbus A Div of CMS Inc
Dakota Software Corp
Davis Instruments



Decade Software Co
Dialogic Communications Corp



Donley Technology
Eagle Technology Inc
Eco Analysis Inc
EnviroData Solutions Inc
Environmental Software
Resource Guide
Environmental Support Solutions
Environmental Systems &
Technologies Inc

Essential Technologies Inc

SEE AD ON PAGE 52, 101

Eventide Software Co
Government Institutes Inc
GreenWare Environmental
Systems Inc
Image Wave Corp

J J Keller & Associates Inc
SEE AD ON PAGE 86, 112

Knorr Associates
Modern Technologies Corp
N B Olewine Co Inc
Ontario Center for Environmental
Technology Advancement

Pacific Environmental
Services Inc
Quelle Corp
Regulatory Compliance
Management Inc

STAR Consultants Inc
Software Certification Institute
Spectrum Human Resource
Systems Corp

TISCOR
Teledyne Brown Engineering
Control Applications
Tracker Technologies
Veeder-Root Co

Vista Information Solutions Inc
SEE AD ON PAGE 71, 150

West Group
SEE AD ON PAGE 4, 111

Wixel

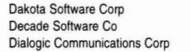
Computer Software, Regulatory



A V Systems Inc

SEE AD ON PAGE 29, 153

Abbottfield Industrial Training Inc
Aspen Technology Inc
CPI Electronic Publishing
Chemical Information System
Corbus A Div of CMS Inc
Dakota Software Corp
Decade Software Co
Dialogic Communications Corp



Donley Technology
EH&S RegSmart
Eco Analysis Inc
EnviroData Solutions Inc
Envirogenics

Environmental Resource Center

SEE AD ON PAGE 85, 159

Environmental Software
Resource Guide
Environmental Support Solutions

Concentrators

Essential Technologies Inc
SEE AD ON PAGE 52, 101

Genium Publishing Corp
Government Institutes Inc
Groundwater Services Inc
H2NS Environmental Inc
HazWaste Technologies Corp
IHS Environmental Information
J J Keller & Associates Inc
SEE AD ON PAGE 86, 112

Met One Instruments Inc

SEE AD ON PAGE 87, 162

Modern Technologies Corp
National Technical
Information Service

Oxford Molecular Group Inc/CIS
Pacific Environmental Services Inc
RegScan Inc

SEE AD ON PAGE 15, 129

Regulatory Compliance
Management Inc
STAR Consultants Inc
Solutions Software Corp
Trinity Consultants Inc



Waid & Associates

West Group

SEE AD ON PAGE 4, 11

Wixel

Computer Software, Training

Abbottfield Industrial Training Inc
American Institute of Chemical
Engineers

Aspen Technology Inc
BNA Communications Inc
Computer Guidance Corp
Corbus A Div of CMS Inc

EMAT-Environmental Management &
Technology Expo

Environmental Resource Center

SEE AD ON PAGE 85, 129

Environmental Software
Resource Guide
Government Institutes Inc
Haestad Methods

J J Keller & Associates Inc
SEE AD ON PAGE 86, 112

Jones & Henry Engineers Ltd
Pacific Environmental
Services Inc

Quelle Corp
Regulatory Compliance
Management Inc
Rockware Inc

Savant Audiovisuals Inc
Software Certification Institute
Solutions Software Corp
Spectrum Human Resource
Systems Corp

Wixel

Concentrators

AirSep Corporation-Industrial Div
Amec Inc
Automation Products Inc
Barnebey & Sutcliffe Corp



Dürr Environmental Inc



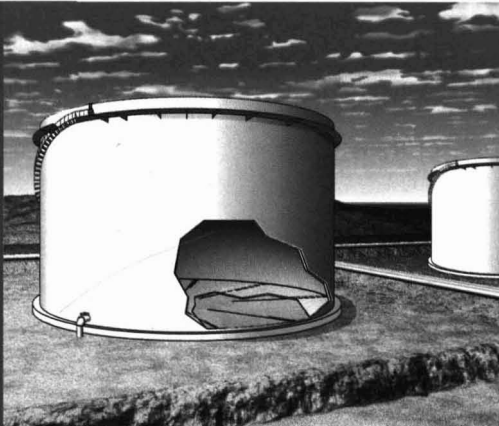
Entech Instruments Inc



Goal Line Environmental Technologies

SEE AD ON PAGE 76, 130

Hudson Industries
Mott Corp



TRACER INTEGRITY MANAGEMENT PROGRAM

NEW! A comprehensive integrity management program for aboveground storage tanks and piping to help prolong integrity, increase productivity and protect your bottom line.

TRACER TIGHT® TANK AND PIPELINE INTEGRITY TESTING
Proven Reliability without Service Interruption

AUTOMATED LEAK MONITORING

CATHODIC PROTECTION
Design, Installation and Continuous Monitoring of Industry Preferred Undertank Systems

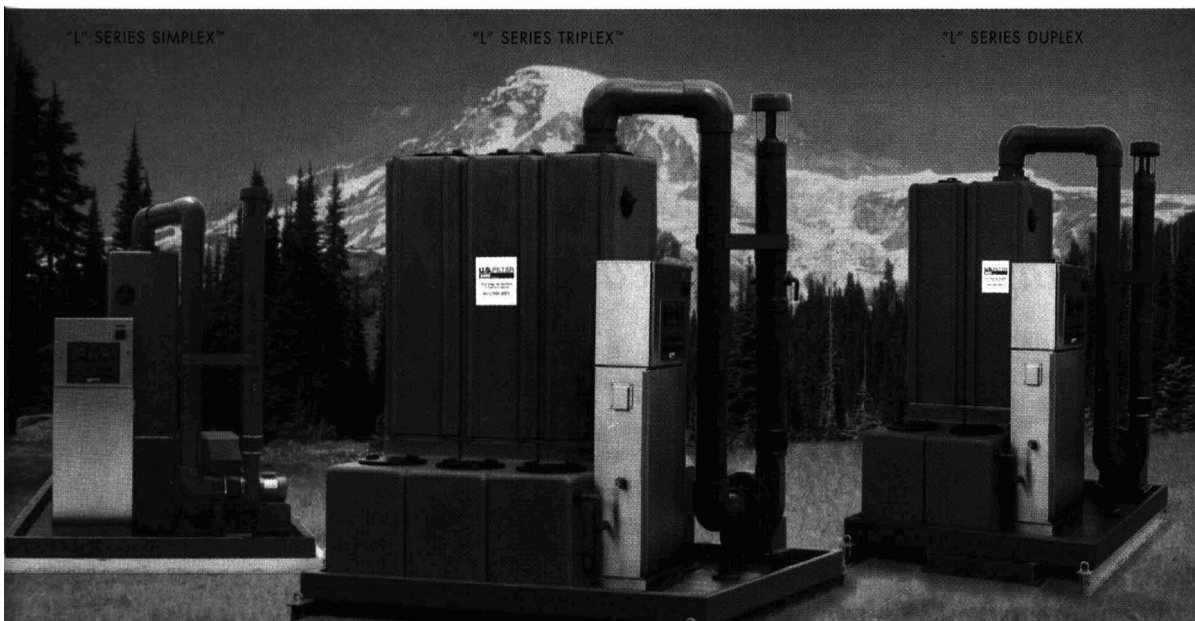
MAINTENANCE SERVICES
Cleaning and Inspection to API Standards, Hydrotesting and Internal Pipe Inspections

ENVIRONMENTAL SAMPLING AND ANALYSIS

SYSTEM LIFE CYCLE ANALYSIS
Mean Time to Failure Predictions

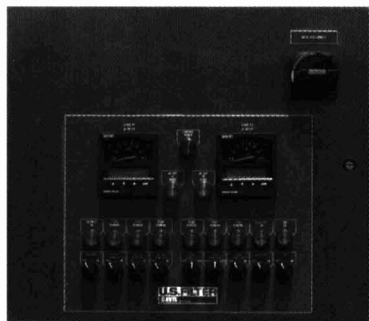
Tracer Research Corporation
800-394-9929

ONE ... TWO ... THREE ...
THE RESULT IS THE SAME ...
EMISSIONS UNDER CONTROL!



U.S. FILTER
DAVIS PROCESS

Taking care of the world's water.



Poly-Stage™ scrubbing technology provides a cost-effective, trouble-free and flexible method to eliminate contaminants for all types of odor and fume control in air streams up to 1,000 cfm. Automation provides efficient and economic monitoring. "L" Series maintenance-free modules, rotationally molded of high density crosslinked polyethylene, are suitable for a wide range of corrosive contaminants and chemical treatments and have the best warranty in the industry. For details, call U.S. Filter/Davis Process, 2650 Tallevast Road, Sarasota, FL 34243, Phone: (800) 345-3982 toll free, Fax: (941) 351-4756. Website <http://www.usfilter.com>

Circle 108 on card.

Conductivity Instrumentation

Contracting Services



**PROCESS TECHNOLOGIES
INCORPORATED**
208-385-0900

Process Technologies Inc
Thermatrix Inc
Trinity Air Technologies
US Filter/HPD
Wolverine (Massachusetts) Corp
SEE AD ON PAGE 80, 156

Conductivity Instrumentation

American Sigma Inc
Anatel Corp
Cole-Parmer Instrument Co
Control Co



HACH
800-227-4224

Hach Co
Hanna Instruments
Hydrolab Corp

SEE AD ON PAGE 64, 126
Lakewood Products/Osmonics
Myron L Co
Orbeco Analytical Systems Inc
Regin Hvac Products Inc
**Rosemount Analytical Inc/
Uniloc Division**
SEE AD ON PAGE 72, 148

Consulting Services

A B B Environmental Services Inc
APEX Environmental Services Inc
AQC Environmental Engineers
Abbottfield Industrial Training Inc
Academy of Certified Hazardous
Materials Managers
Acculab Environmental
Services Inc
Advanced Geoservices Corp



**418-627-1876 OH
201-664-2880 NJ**

Affiliated Environmental Services Inc
Air Resource Specialists Inc

Alvord, Burdick & Howson Engineers
American Aquatic Testing Inc
Ashland Chemical Co
August Mack Environmental Inc
B A Liesch Associates Inc
BBS Corp
BCAM International Inc
BDM International Inc
BEE-Line Software
Babcock Water Engineering LP
SEE AD ON PAGE 47, 154
Behavioral Science Technology Inc
Benchmark Environmental Corp
Betz Dearborn
Black & Veatch
Blasland, Bouck & Lee Inc
Brown & Caldwell
Brown, Vence & Associates Inc
Buchart-Horn Inc
Carlson Geologic &
Environmental Inc
Central Wisconsin Engineers &
Architects Inc
Claymore Engineering
Clayton Group Services Inc

Cochrane Associates Inc
Conatech Consulting Group Inc
Controltron
Corporate Environment Ltd
D L Adams Associates Ltd
Consultants in Acoustics
Dahl & Associates Inc
Design Compliance Assoc
Dewberry & Davis
Dragon Corp
Dynalect Heat Transfer Fluids
Dziurman/Associates PC
ECS Inc
ENSR
ERD Environmental Inc
Earth Data Inc
Earthsource Consulting Inc
Eckenfelder Inc
Eco Analysis Inc
Ecology & Environment Inc
Enercon Services Inc
Entrix Inc
EnviroData Solutions Inc
EnviroNet LLC
Envirosystems
Environmental & Information
Resources Inc
Environmental Compliance
Consultants Inc
Environmental Consulting Ltd
Environmental Dimensions Inc
Environmental Maintenance
Technology
Environmental Mitigation Group
Environmental
Personnel Agency
Environmental Resource Center
SEE AD ON PAGE 85, 129
Environmental Resources
Center Inc
Environmental Resources
Management
Environmental Science
Services Inc
Environmental Software
Resource Guide
Environmental Solutions Inc
Environmental Technologies Inc
Environmental Waste Management
Associates LLC
Environmental Works Inc
Environmental, Health & Safety
Search Associates
Evans & Mitchell Inc/
The Safety Advisors
Excel Partnership Inc
SEE AD ON PAGE 36, 114
Forrester Group Inc
G B Willson Associates Inc
Gabbard Environmental
Services Inc
Geo-Environmental Solutions
GeoCore Services Inc
Golden Associates Inc
SEE AD ON PAGE 27, 105
GreenWare Environmental
Systems Inc
Groundwater & Environmental
Services Inc
Groundwater Services Inc
HDR Engineering Inc
HML Inc dba Hoosier
Microbiological Laboratory
Hahn & Associates Inc
Handex Environmental Midwest
Hands & Associates Inc
Hargis & Associates Inc
HazWaste Technologies Corp
Hazen & Sawyer PC
Health & Hygiene/ELB
Hixson A/E Inc
Holzmacher, McLendon
& Murrell PC
Hyde Consultants Inc
HydroQual Inc
**IQUES-International Quality &
Environmental Services**
SEE AD ON PAGE 83, 155
Innovative & Creative
Environmental Solutions
Institute Environmental
Technologies Inc
J J Keller & Associates Inc
SEE AD ON PAGE 86, 112

J L & Associates
JWB Environmental Engineering
Jones & Henry Engineers Ltd
K & S Engineers Inc
Kilham Associates Consulting
Engineers
Lan Associates Inc
Laurel Environmental Associates Inc
Leggett, Brashears
& Graham Inc
**Lexicon Environmental
Associates Inc**
SEE AD ON PAGE 7, 135
M J S & Associates
MPC Environmental
Marketing Counselors
International Inc
Miguel A Antonetti & Associates
Morrison Knudsen Corp
Moshman Environmental Engineering
Mystic Air Quality Consultants Inc
NES Inc
Nassel Engineering &
Equipment Co Inc
National Technical Systems
Network Environmental Systems Inc
Normandeau Associates
Occusafe Inc
Omni Professional Environmental
Associates PA
Ontario Center for Environmental
Technology Advancement
Optimal Technologies Inc
P E L Moreaux & Associates
PCCI Inc
Pacific Environmental Services Inc
Pantera Environmental
Consulting/Real Estate Recovery
Penn Environmental & Remediation Inc
Phase I Environmental Inc
Phyto Works Inc
Precision Analysis Inc
Q Financial Corp
Quality Assurance Associates
Quantum Compliance Systems Inc
SEE AD ON PAGE 13, 131
RMT Machinery Inc
Raytheon Environmental &
Quality Programs
Reactive Management Corp
Resochem Corp
Resource Management Group Inc
Roberts & Schaefer Co
Roehrig & Associates Inc
Roy F Weston Inc
Rust Environment & Infrastructure
SEE AD ON PAGE 3, 115
SEMCOR
SSOE Inc

Meeting All WWT Applications FROM TOP TO BOTTOM

S&N AIROFLO IS "PURPOSE-BUILT"
To Maximize Both Oxygen Transfer And Mixing
While Minimizing Both O&M And Electrical Costs!

S&N AIROFLO's
Series of 'Low-Speed'
Aeration Equipment

Meets Both
Shallow and Deep
WWT Applications
(Lagoons • Oxidation
Ditches • Aerated Basins)
with Large Volume Water

Movement and
Unprecedented
Oxygen Transfer
Efficiency

S&N MAXFLO™ Mixer

The Only Mixer Providing
"3-in-1" Hydraulic Connections
• Top-to-Bottom
• Bottom-to-Top
• Horizontal
Adjustable to Operate
at Various Angles

PUMPING OVER +10,000GPM

S&N AIROFLO
P.O. Drawer 1994
Greenwood, MS 38935-1994
800.844.4524
800/761.4442 Fax
www.airoflo.com
etatum@airoflo.com



The Most Efficient Name In Aeration.

S&N AIROFLO™

**CONTINUOUS-DUTY/
CORROSIVE-DUTY**
Hot-Dipped Galvanized
With Stainless Steel
And Bronze Components.
3HP, 5HP, 10HP, and
15HP Surface Piercing
Horizontal Rotor-Type
(SPHR) Floating
Aerators.

MORE SAVINGS

- Less HP Requirements
- Less Capitalization per HP
- Lower O&M Costs
- Lower Energy Costs

**MORE OXYGEN
MORE MIXING
LESS HP!**



This dove is a symbol of peace.



Our dove is a symbol
of peace of mind.

The Green Dove Award is a universally recognized symbol of accredited registration to ISO 14001. It provides employees, customers, regulators, the community and society with confidence that an organization is not only managing its environmental obligations effectively, but it's also committed to continual improvement.

Independent verification leading to ISO 14001 registration and the Green Dove Award is available worldwide, but only through SGS International Certification Services. Since 1878, as the world's largest organization in the field of inspection and verification, SGS Group has provided its clients with a comprehensive range of environmental and quality management system assurance services.

If your organization is a responsible corporate citizen and can demonstrate an effective environmental management system, shouldn't you also be giving the world a little peace of mind?

For more information about our ISO 14001 registration and training services, please call 800-747-9047 or 201-935-1500.

SGS International Certification Services, Inc.



Contracting Services

Earth Data Inc
Environmental Personnel Agency
Environmental, Health & Safety
Search Associates
Excel Partnership Inc
SEE AD ON PAGE 36, 114
Fergus Power Pump Inc
Forrester Group Inc
Handex Environmental Midwest
Institute Environmental
Technologies Inc
Moshman Environmental Engineering
National Technical Systems
Nielsen Inc
Pacific Environmental Services Inc
Quantum Compliance Systems Inc
SEE AD ON PAGE 13, 131
Roy F Weston Inc
STC Remediation Inc

Safety & Environmental
Resources Inc
Svenson Environmental Services Inc
Terra Systems Inc
Universal Fabric Structures
W Gale Biggs Associates
Wald & Associates

Controllers

Bailey-Fischer & Porter Co
Barnstead/ThermoLynne
Bristol Babcock Inc
Chlorinators Inc
Clean Environment Equipment
George Fischer Inc
HML Inc dba Hoosier
Microbiological Laboratory
Hersey Measurement Co
M J S & Associates

McMillan
C-O-M-P-A-N-Y
800-861-0231

McMillan Co
Newport Electronics Inc
Omega Engineering Inc
SEE AD ON PAGE 2, 133

Peek Measurement A Thermo
Electron Co
Powers Process Controls
Q Financial Group
US Filter/Stranco
Zone Automation

Conveyors

Ameri-Shred Corp
Automation Products Inc
Boiler & Burner Systems

D R Cordell & Associates Inc
Ehrsam Products,
ABB Air Preheater Inc
GE Co
Morlan & Morlan Inc
Roberts & Schaefer Co
Smalls Conveyors

Cooling Tower Water Treatment

Atlantic Screen & Mfg Inc
Beltz Dearborn
Miox Corp
Nalco Chemical Co
Oil Skimmers Inc
SEE AD ON PAGE 55, 145
Osmonics
RGF Environmental Systems Inc
US Filter/Stranco

Cooling Towers

Delta Cooling Towers Inc

Core Sampler

AMS Inc
Advanced Concepts & Design Inc
Associated Design & Manufacturing Co
Little Beaver Inc
SEE AD ON PAGE 57, 108
Wonder Makers Inc

Corrosion Instrumentation/ Protection

Carbolite Co
Corrosion Control Intl LLC
ITW Devcon Engineered Coatings
Metal Samples/
Corst Instrument Systems
Nasseli Engineering & Equipment Co Inc
PolySpec Corp
Reef Industries Inc
US Filter/Lo-Cat

Couplings

Hilliard Corp
Little Beaver Inc
SEE AD ON PAGE 57, 108
MMC International Corp
Midland Metal Mfg Co

PREMIER
SERVICES CORPORATION
800-227-4287

Premier Services Corp
Smith Fiberglass Products Co
Victaulic Co of America

Covers/Domes

ILC Dover Inc
SEE AD ON PAGE 123, 141
Lemna USA Inc
Louis R Hovater Consulting Engineer
Mid America Railway Supply Inc
NuTech Environmental Corp
Reef Industries Inc
Rusmar Inc
Terncor

Crushers

Franklin Miller Inc
J V Manufacturing Inc/"Cram-A-Lot"
Justrite Manufacturing Co
Morlan & Morlan Inc
New Pig Corp
RMT Machinery Inc
SRS Industrial Engineering Inc
Waste Control Systems Inc
Wyssmont Co Inc

Cyclones

Abrest Corp
Aerology

Airetech, Inc.
800-898-2323

Airetech Inc
Andersen 2000 Inc
Clean Gas Systems Inc
ERS Services Inc
Environmental Supply Co Inc

Debris Baskets

Misonix Inc
SEE AD ON PAGE 18, 143
Morlan & Morlan Inc
Roberts & Schaefer Co
Thiel Air Technologies
Turner Enviro Logic Inc

Dampers

Bayou City Pump Works Inc
Boiler & Burner Systems
Chem Pruf Door Co
Turner Enviro Logic Inc

Data Acquisition Equipment

ASOMA-WTC Engineering Inc
American Sigma Inc
Auburn International Inc
Bristol Babcock Inc
Climatronics Corp
Cochrane Associates Inc
Contec Systems Industrial Corp
Controlotron
Dancer Communications Inc
Data Electronics USA Inc
Green Tek Inc
H2NS Environmental Inc
In-Situ Inc
Intercon Corp
KVB
Logic Beach Inc
MIE Inc (Monitoring Instruments
for the Environment)
Magellan Systems Corp
Met One Instruments Inc
SEE AD ON PAGE 87, 162
Metrosnics Inc
Mil-Ram Technology Inc
Monarch Instrument
Omega Engineering Inc
SEE AD ON PAGE 2, 133
Pace Environmental Products Inc
SRI Instruments
Scientific Sales Inc
Sierra Monitor Corp
TEAC America-Information
Products Div
Undata America
Zone Automation

Data Loggers

ASOMA-WTC Engineering Inc
Auburn International Inc
BioRenewal Technologies Inc
Climatronics Corp
Cochrane Associates Inc
Contec Systems Industrial Corp
Controlotron
Dancer Communications Inc
Data Electronics USA Inc
Global Water
H2NS Environmental Inc
In-Situ Inc
Incon Inc
Logic Beach Inc
Magellan Systems Corp
Met One Instruments Inc
SEE AD ON PAGE 87, 162
Monarch Instrument
Omega Engineering Inc
SEE AD ON PAGE 2, 133
Onset Computer Corp
Response Rentals
Stevens Water Monitoring Systems
TEAC America-Information Products Div
Teltamp Corp

telog
716-359-1110

Telog Instruments
Testo Inc
SEE AD ON PAGE 85, 154
Tracker Technologies
Undata America

Debris Baskets

HP
HALLIDAY PRODUCTS
407-298-4470

Halliday Products Inc

ROYCE IS TOTAL SUSPENDED SOLIDS



- Portable analyzer
- Full-featured continuous analyzer
- Self-cleaning sensors for all ranges
 - Turbidity
 - Medium range (MLSS)
(Color compensating optics)
 - High density (in-line)
- In-situ calibration
- Direct solids control capability
- Analog and digital communications

Royce total suspended solids systems are used worldwide for all types of solids measurement and control applications. We can supply a system specific to your application.

For More Information:

In the U.S. and Canada: **1-800-347-3505**

Immediate FAXBACK information: 504-254-3756

Internet: <http://www.royceinst.com>

E-mail: info@royceinst.com

ROYCE
INSTRUMENT
CORPORATION

13555 Gentilly Road
New Orleans, LA 70129
504/254-8888
FAX: 504/254-8855

ISO 9001
CERTIFIED

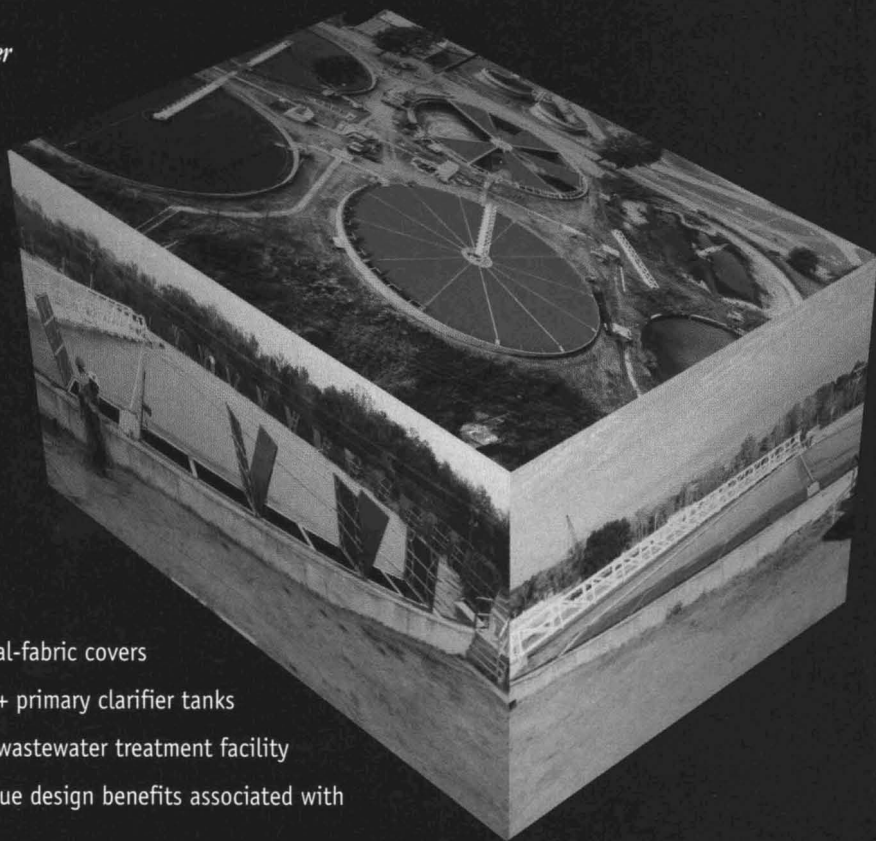
World Class Designs - From a World Class Company

CE
CONFORMANCE



The Ultimate in ODOR Containment

The Structural-Fabric Cover



The VAPOR GUARD® structural-fabric covers
being installed on six 130'+ primary clarifier tanks
at the Charlotte-McAlpine wastewater treatment facility
illustrate many of the unique design benefits associated with
VAPOR GUARD® covers:

■ **MODULAR CONSTRUCTION**

Expedites Installation of the Clarifier Covers
Permits Easy Removal of the Structural-Fabric "Pie" Sections for Tank Maintenance

■ **FULL PERIMETER ACCESS**

Facilitates Daily Weir Maintenance
Ensures Total Odor Containment through Fully Gasketed Doors

■ **FLAT PROFILE**

Minimizes Emission Equipment Costs
Leaves Catwalks Open for Non-Confined Space Entry

With these unique design benefits...

VAPOR GUARD® is truly: The Ultimate in ODOR Containment



ILC DOVER INC

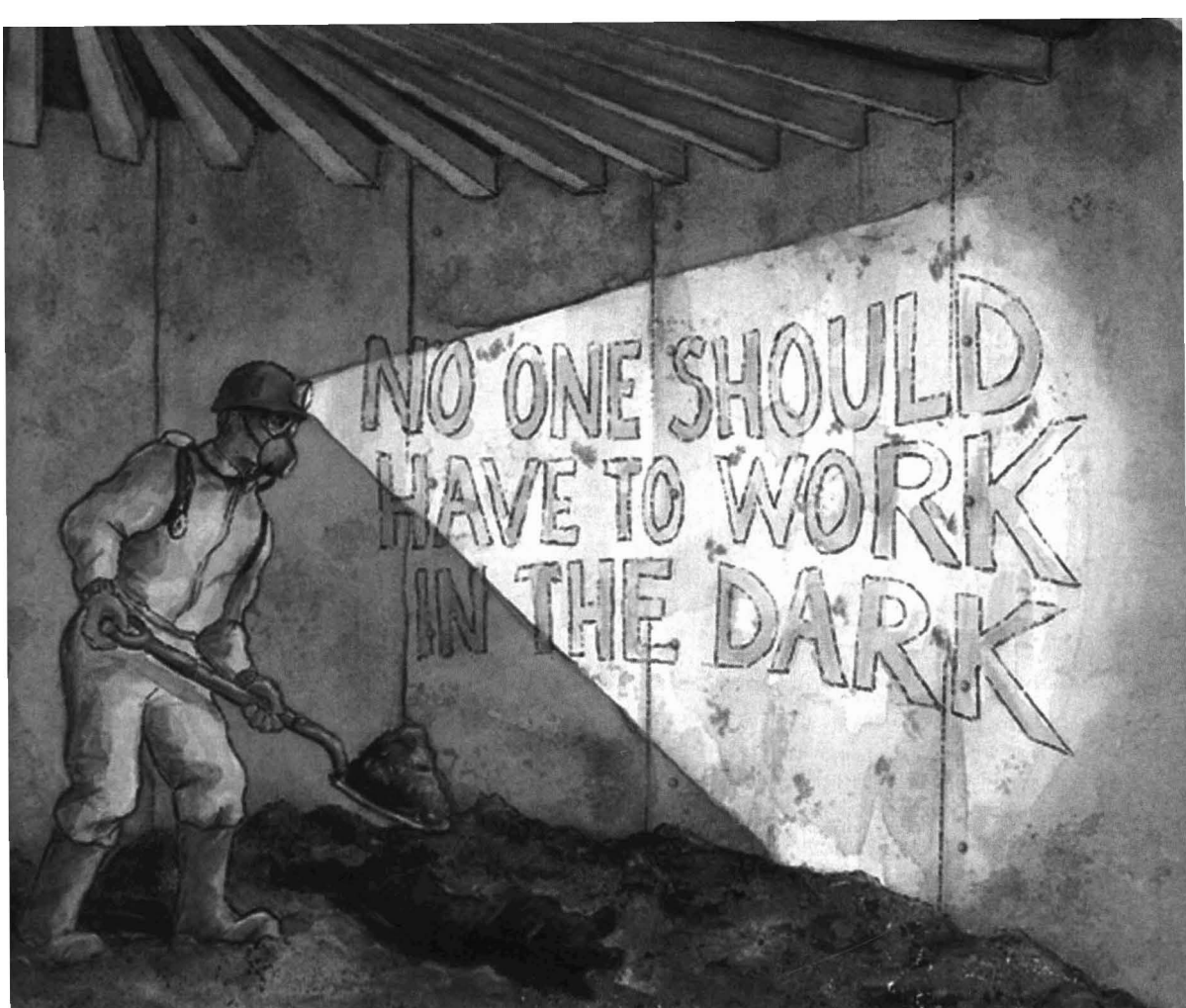
PROTECTING MAN & HIS ENVIRONMENT

1-800-631-9567

FREDERICA, DE • (302)335-1320 FAX

<http://www.ilcdover.com>

patent pending • made in usa



ESPECIALLY WHEN THE DARK PLACE IS INSIDE A CHEMICAL STORAGE TANK



Which is why Rhodia Industrial Field Services was created. Our patent-pending method for the fluidization, removal and incineration of chemical residues, including unpumpable tars and sludges in chemical/petrochemical storage and process equipment—delivers safety, efficiency and cost effectiveness that was previously unimaginable.

Rhodia's methods replace today's intrusive, labor-intensive techniques. No confined space entry is required. No personnel access way needs to be cut. The complete cleaning process is finished faster, meaning reduced facility downtime. We even handle all waste disposal through fully integrated, RCRA-certified incineration facilities, delivering superior environmental control and product stewardship.

Don't be left in the dark using outdated, risk-intensive cleaning methods on your storage and process systems. Give us a call at **(800)521-2289** for more information, or browse through our Internet site at <http://www.ecoservices-us.rhodia.com>.



Rhodia Eco Services • Phone: 800-521-2289 • Internet: www.ecoservices-us.rhodia.com

Drying Equipment

UPE Universal Process Equipment Inc
US Filter/Envirex

U.S. FILTER
JWI
800-245-3006

US Filter/JWI

Wolverine (Massachusetts) Corp

SEE AD ON PAGE 80,156

Wyssmont Co Inc

Ducts/Stacks/Chimneys

Clean Gas Systems Inc

Custodis

Esilon Thermoplastics

SEE AD ON PAGE 9, 117

Hi Temp Technology Corp

McGill Airclean Corp

Turner Enviro Logic Inc

Wheelabrator Air Pollution

Control Inc

**Dust Collector
Accessories/Supplies**

Airflow Systems Inc

Arotech, Inc.
Supplier & Service For Air Pollution Control
412-898-2323

Arotech Inc

Automation

Products Inc

Boiler & Burner Systems

DataTest Inc

Flex-Kleen

IFX

Implant Enviro-Systems

2000 Inc

Misonix Inc

SEE AD ON PAGE 18,143

Neotek Health

Technologies Inc

PacTec Inc

Pneumafil Corp

Precision Wire

Products Inc

Water Works

Wheelabrator Air Pollution

Control Inc

Wm W Meyer & Sons Inc

**Dust Collector
Controls**

Arotech, Inc.
Supplier & Service For Air Pollution Control
412-898-2323

Arotech Inc

Dustvent Inc

Flex-Kleen

Implant Enviro-Systems

2000 Inc

Pneumafil Corp

**Dust Suppression
Systems**

Advanced Dust

Solutions Inc

Dynasorb® The Best Available
% Solids % Concentration
- LINE BLINDERS
- LINE BLINDERS
- COAGULANTS, etc.
412-898-2323

Automation Products Inc

IFX

**Martin Marietta
Magnesia Specialties**
800-648-7400

Martin Marietta Magnesia

Specialties Inc

SEE AD ON PAGE 165

McPhee Environmental Supply

Rusmar Inc

Electrostatic Precipitator

Aerology

Clean Gas Systems Inc

DÜRR
818-207-6500

Dürr Environmental Inc

Implant Enviro-Systems 2000 Inc

McGill Airclean Corp

E
314-275-5907

Monsanto Enviro-Chem Systems
Research-Cottrell

THIEL
AIR TECHNOLOGIES
606-781-4330

Thiel Air Technologies

Wheelabrator Air Pollution Control Inc

**Electrostatic Precipitator
Supplies/Accessories**

Arotech, Inc.
Supplier & Service For Air Pollution Control
412-898-2323

Arotech Inc

Clean Gas Systems Inc

Eriez Magnetics

Research-Cottrell

Wheelabrator Air Pollution Control Inc

Elevators

ConVault Inc

Ehram Products, ABB Air

Preheater Inc

**Emergency Response
Training Services**

Abbottfield Industrial Training Inc

Aires Consulting Group Inc

Compliance Solutions Occupational

Trainers Inc

EMAT-Environmental Management &

Technology Expo

Environmental Resource Center

SEE AD ON PAGE 85, 159

Essential Technologies Inc

SEE AD ON PAGE 52, 101

Foss Environmental Services

Haztech Systems Inc

Hixson A/E Inc

MPC Environmental

Marketing Counselors

International Inc

Midwest Center for Occupational

Health & Safety

Network Environmental Systems Inc

PCCI Inc

Reactive Management Corp

SSOE Inc

Safety Management Resources Corp

University of Florida TREEO Center

University of Texas at

Arlington/Environmental Research

Wald & Associates

Employment Services

Academy of Certified Hazardous

Materials Managers

Air & Waste Management Association

American Institute of

Chemical Engineers

Corporate Environment Ltd

Environmental Personnel Agency

Environmental, Health & Safety

Search Associates

R & D Dimensions

Engineering Services

**Enclosures,
Instrument/Valve**

Cosycos Inc

East-Set Ind

Plasti-Fab Inc

Safety Storage Inc

Warminster Fiberglass Co

Enclosures, Structural

American Sigma Inc

Cosycos Inc

EKTO 207-324-4427

EKTO Manufacturing Corp

Easi-Set Ind

HAZ-SAFE
Buildings by Design
412-353-0300

Haz Safe Buildings

SEE AD ON PAGE 160

Implant Enviro-Systems 2000 Inc

Plasti-Fab Inc

RMT Machinery Inc

Reef Industries Inc

Rubb Inc

Rubbercraft

Safety Storage Inc

Universal Fabric Structures

Warminster Fiberglass Co

Engine Test Equipment

Automation Products Inc

Engineering Services

A B B Environmental Services Inc

AQC Environmental Engineers

ATC Associates Inc

Advanced Geoservices Corp

Alvord, Burdick & Howson Engineers

BBS Corp

Being Consultants

Black & Veatch

Blasland, Bouck & Lee Inc

Brown-Minneapolis Tank -

Div of ITEQ Storage Systems

Buchart-Horn Inc

Burns & McDonnell Waste

Consultants Inc

Carter, Darnell & Grubbs

Engineers Inc

Central Wisconsin Engineers &

Architects Inc

Claymore Engineering

Cochrane Associates Inc

D L Adams Associates Ltd

Consultants in Acoustics

Dürr Environmental Inc

Dziurman/Associates PC

Ecology & Environment Inc

Environmental Personnel Agency

G O Environmental Inc

Golder Associates

SEE AD ON PAGE 27, 105

HDR Engineering Inc

Haley & Aldrich Inc

Handex Environmental Midwest

Hixson A/E Inc

Holzmacher, McLendon & Murrell PC

Hyde Consultants Inc

HydroQual Inc

In-Situ Oxidative Technologies Inc

Innovative Consultants Inc

Jacobs Environmental Inc

Jones & Henry Engineers Ltd

Lan Associates Inc

Lexicon Environmental

Associates Inc

SEE AD ON PAGE 7, 135

Morrison Knudsen Corp

National Technical Systems

Omni Professional Environmental

Associates PA

PCCI Inc

Patrick Engineering Inc

Phase I Environmental Inc

Rain for Rent

Resochem Corp

Roberts & Schaefer Co

Rocky Mountain Consultants Inc

WATER QUALITY

MONITORING SYSTEMS FOR FRESH, SALT, GROUND & WASTE WATERS

Hydrolab offers several instrument systems to make your monitoring tasks easy and reliable. You may choose systems for simple field surveys, remote datalogging at out-of-the-way monitoring sites, or on-line integration with your existing data information systems.

Rugged Hydrolab multiprobes provide *simultaneous* parameter measurement with just *one* probe, reducing your need for multiple instruments.

Call today and find out about our new instruments that feature easy sensor reconfigurations, graphical data displays, new PC software, memory, GPS, and barometric pressure.



temperature
pH
dissolved oxygen
sp. conductance
conductivity
turbidity
salinity
resistivity
TDS
redox
ammonium
ammonia
depth
vented level
total dissolved gas
nitrate
chloride
ambient light (PAR)
transmissivity
chlorophyll A
barometric
pressure
GPS



HYDROLAB®

HYDROLAB CORPORATION

12921 Burnet Road • Austin, TX • 78727

Phone: 800-949-3766 or 512-255-8841 • FAX: 512-255-3106

Internet: www.hydrolab.com • Email: sales@hydrolab.com

A Member of the Environmental Instrumentation Group

SAMSCO Wastewater Evaporators

Partner with the Leader

Why the Leader? Why Samsco?

- *Wastewater Evaporation is Our Business*
- *Ten Years of Field Experience and Application Knowledge*
- *Time-tested Proven Track Record*
- *More than 1,000 Installations Worldwide*
- *Unmatched Regulatory Proficiency*
- *Performance and Results – Guaranteed*

Minimize Your Investment Risk – Work with the Evaporator Experts

Waste Stream Assessment

SAMSCO provides a complete functional analysis of each of your waste streams. This enables us to project the specific performance characteristics of your waste streams within the SAMSCO equipment.

Regulatory Proficiency

When it comes time to work with your state for permitting approval, SAMSCO is there. We can either provide regulatory consultation, and/or we can complete all required documentation for you.

Quality...No Compromises

SAMSCO understands what is asked of an evaporator.

The equipment must continuously concentrate complex chemicals under harsh, ever-changing conditions. This demands uncompromising attention to:

- Equipment design
- Materials of construction
- Components selection
- Process/safety control logic

Engineered to Perform Day-in, Day-out

Facility Planning

Start to finish, SAMSCO will help integrate the evaporation system into your plant's daily operations. Complete system design of your wastewater handling and specification of ancillary equipment is provided, yielding flexibility, low operating cost and minimal routine maintenance.

Flexibility for the Future

SAMSCO systems are not waste stream specific and can process several complex chemistries simultaneously. As production needs change, SAMSCO provides free waste analysis throughout the operating life of the evaporator.

SAMSCO's superiority of design and construction remain the standard by which all other evaporation systems should be compared. Your investment is protected with SAMSCO.

Optional Condenser for "Closed Loop" Water Recovery



Applications As Diverse As:

Machining & Grinding Coolants
Floor Scrubber & Mop Waters
Alkaline Cleaners & Parts Washing
Tumbling & Vibratory Solutions
Stamping & Drawing Compounds
RO/UF Concentrates & Flushes

Plating Solutions & Rinses
Die-Casting Process Waters
Ion-Exchange Regenerates
Vehicle & Aircraft Washing
Foods and Pharmaceuticals
Steam Cleaning & Power Wash

SYSTEM BENEFITS

- **Reduce Wastewater Volume up to 98%**
- **Eliminate Sewer Accountability – Forever**
- **Process Multiple Waste Streams Simultaneously**
- **High Efficiency – Theoretically and Field Proven**
- **Lower Cost of Ownership**
 - Operating Costs of Only Pennies per Gallon
 - Low Use and Maintenance Costs
- **Simple to Install, Operate, and Maintain**
- **Fully Automatic – 24 Hour Unattended Use**
- **Redundant Safety/Operational Controls**
- **Natural Gas, Propane, Steam, and Electric Units**
- **Wide Range of Evaporative Capacities**
(Thousands to Millions of Gallons per Year)

SAMSCO WATER EVAPORATOR

SAMSCO, INC., 18 Cote Avenue, Goffstown, New Hampshire 03045

Phone: (603)668-7111 Fax: (603)647-0537

Engineering Services

Rust Environment & Infrastructure
SEE AD ON PAGE 3, 115
SEMCOR
SRS Technologies



SSOE Inc
STV Inc
Software Certification Institute
Solar Testing Laboratories Inc
Touhill Technology Management Corp
Trewin & Smith Inc

TRIBBLE & RICHARDSON, INC.
A DSA/Atlantic Company
912-474-6100

Tribble & Richardson
UAI Group LP
US Filter/Lo-Cat
Van Note-Harvey Associates PC
Vera Int'l-Div of Calgon Carbon Corp
WCM Group Inc

WES Corp
Waid & Associates
Walter Grossman & Associates
Western Water Consultants Inc

Environmental Audits

A B B Environmental Services Inc
ABR Inc
APEX Environmental Services Inc
AQC Environmental Engineers
ATC Associates Inc
Acculab Environmental Services Inc
Adirondack Environmental
Associates Inc
Advanced Geoservices Corp
American Waste Services Inc
August Mack Environmental Inc
B A Liesch Associates Inc
BDM International Inc
BEM Systems Inc
Belling Consultants
Benchmark Environmental Corp
Bio-Systems Corp
Blasland, Bouck & Lee Inc
Boelter & Yates Inc
Brown & Caldwell

Buchart-Horn Inc
Burns & McDonnell Waste
Consultants Inc
CPI Electronic Publishing
Carson Geologic &
Environmental Inc
Clayton Group Services Inc
Climatronics Corp
Compliance Solutions Occupational
Trainers Inc
Conversion Technology Inc
Crouse Enterprises Inc
Dahl & Associates Inc
Dakota Software Corp
Dewberry & Davis
Dominion Environmental
Consultants Inc
Dragun Corp
Dziurman/Associates PC
ENSR
ERD Environmental Inc
Earth Data Inc
Earthsource Consulting Inc
Ecology & Environment Inc
Enercon Services Inc
EnviroData Solutions Inc

Environmental Engineering

EnviroNet LLC
Environmental Compliance
Consultants Inc
Environmental Consulting Ltd
Environmental Dimensions Inc
Environmental Liability
Management Inc
Environmental Mitigation Group
Environmental Personnel Agency
Environmental Resource Center
SEE AD ON PAGE 85, 159
Environmental Resources Center Inc
Environmental Resources Management
Environmental Risk Ltd
Environmental Science Services Inc
Environmental Solutions Inc
Environmental Systems &
Technologies Inc
Environmental Technologies Inc
Environmental Technology Inc
Environmental Waste Management
Associates LLC
Environmental Works Inc
Essential Technologies Inc
SEE AD ON PAGE 52, 101
Evergreen Environmental Group
Excel Partnership Inc
SEE AD ON PAGE 36, 114
Forrester Group Inc
Gabbard Environmental Services Inc
Geo-Environmental Solutions
Golden Associates
SEE AD ON PAGE 27, 105
Government Institutes Inc
GreenWare Environmental
Systems Inc
Groundwater & Environmental
Services Inc
Groundwater Services Inc
HPC Inc
Hahn & Associates Inc
Haley & Aldrich Inc
Hands & Associates Inc
Hixson A/E Inc
Holzmacher, McLendon & Murrell PC
**IQES-International Quality &
Environmental Services**
SEE AD ON PAGE 83, 155
ITS Intertek Services
Innovative & Creative
Environmental Solutions
Institute Environmental
Technologies Inc
J J Keller & Associates Inc
SEE AD ON PAGE 86, 112
J L & Associates
JWB Environmental Engineering
Jacobs Environmental Inc
K & S Engineers Inc
Lan Associates Inc
Laurel Environmental Associates Inc
**Lexicon Environmental
Associates Inc**
SEE AD ON PAGE 7, 135
Miguel A Antonetti & Associates
Modern Technologies Corp
Moshman Environmental Engineering
NES Inc
Nassat Engineering &
Equipment Co Inc
National Quality Assurance USA
Network Environmental Systems Inc
Occusafe Inc
P E LaMoreaux & Associates
PCCI Inc
Pace Environmental Products Inc
Phase I Environmental Inc
Pollution Research & Technology Inc
Precision Analysis Inc
Princeton-Somerset Group Inc
Professional Analytical & Consulting
Services Inc
Quality Assurance Associates
R B Consulting Services
Raytheon Environmental &
Quality Programs
Reschem Corp
Roehrig & Associates Inc
Rosengarten, Smith & Associates Inc
Rutgers University-Office of
Continuing Prof Educ
SEMCOR
SSOE Inc

STAR Consultants Inc
STV Inc
Safety & Environmental Resources Inc
Safety Management Resources Corp
Savant Enterprises LLC
Slosky & Co Inc
Source Environmental Sciences Inc
TRC
Tetra Tech NUS
Thomas Hill Inc Consulting Engineers
Touhill Technology Management Corp
Trinity Consultants Inc
UAI Group LP
University of California Extension-CMIL
University of Texas at
Arlington/Environmental Research
Versar Inc
Victoria Group Inc
Vista Information Solutions Inc
SEE AD ON PAGE 71, 150
WCM Group Inc



Waid & Associates
Walsh Environmental Scientist &
Engineers Inc
Western Water Consultants Inc
Wixel

Environmental Engineering

A B B Environmental Services Inc
AQC Environmental Engineers
ATC Associates Inc
Academy of Certified Hazardous
Materials Managers
Acton-Mickelson Environmental Inc
Adirondack Environmental
Associates Inc
Advanced Geoservices Corp
Aires Consulting Group Inc
Alvord, Burdick & Howson Engineers
August Mack Environmental Inc
B A Liesch Associates Inc
BBS Corp
BDM International Inc
BEM Systems Inc
Babcock Water Engineering LP
SEE AD ON PAGE 47, 154

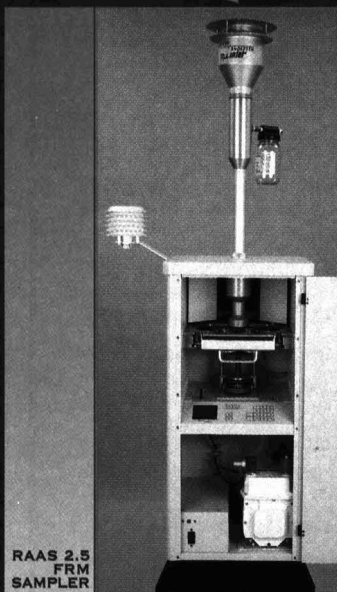
Belling Consultants
Benchmark Environmental Corp
Black & Veatch
Blasland, Bouck & Lee Inc
Boelter & Yates Inc
Brown & Caldwell
Brown, Vance & Associates Inc
Buchart-Horn Inc
Burns & McDonnell Waste
Consultants Inc
Business & Legal Reports
CPI Electronic Publishing
Carter, Darnell & Grubbs
Engineers Inc
Central Wisconsin Engineers &
Architects Inc
Claymore Engineering
Conversion Technology Inc
Crouse Enterprises Inc
Dahl & Associates Inc
Dames & Moore Group
Dragun Corp
Dziurman/Associates PC
ENSR
Eckenfelder Inc
Eco Analysis Inc
Ecology & Environment Inc
Entrix Inc
EnviroData Solutions Inc
Environmental Fuel Systems
Environmental Mitigation Group
Environmental Personnel Agency
Environmental Resources Center Inc



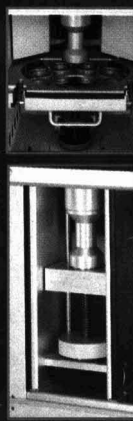
Environmental Resources Management
Environmental Risk Ltd
Environmental Science Services Inc
Environmental Technologies Inc

TO DATE - THE LARGEST SUPPLIER OF FRM INSTRUMENTS TO EPA

AMBIENT SAMPLER



RAAS 2.5
FRM
SAMPLER



RAAS FRM
MULTI-FILTER
SAMPLER



RAAS 2.5 FRM
AUDIT SAMPLER



ONLY FRM SUPPLIER TO BE FIELD
TESTED AT ALL 7 EPA SITES!
CALL TO RECEIVE A COPY OF EPA REPORTS

ANDERSEN
GRASEBY

ISO 9001

...setting the standard in PM_{2.5} Sampling

500 TECHNOLOGY CT. • SMYRNA, GA 30082 USA
800.241.6898 • FAX 770.319.0336 • WWW.GRASEBY.COM

"There is a wealth of information in every corporation that just belongs in an electronic database that can be widely distributed, thoroughly searched and completely controlled."

Information Integration

RegScan's LinkIt!™ Services Make It Possible.

Information integration is how many progressive companies are using technology to solve business problems that have plagued them for years. By combining their corporate information with RegScan's time-proven regulatory services and leveraging the power of their Intranets, these companies are not only saving money, they're ensuring that their corporate knowledge base is available for today's decisions and preserved for the future.

Information Integration Opportunity

- Capture vital corporate knowledge from senior staff and preserve it in electronically published manuals with full-text search capabilities
- Incorporate the most current federal, state and international regulations
- Use hyperlinks to guide less experienced junior staff to all the information they need to make critical, day-to-day regulatory decisions without tying up a manager's time
- Distribute the information to every person in the company who needs it over your Intranet or LAN/WAN
- Create an integrated electronic information system around which you can build an entire corporate program or ISO plan
- (your unique application of this technology)

LinkIt!™ Solutions

- Apply the skill and discipline of maintaining large volumes of volatile information to protect the long-term investment of your project
- Provide creative solutions to complex challenges
- Supplement your information system with custom programming that provides reporting or other required functionality

Call now to learn how you can create a powerful system like the ones that Chrysler, Bayer, Cytex Industries and others already rely on.

1-800-REGSCAN
(1-800-734-7226)

Or get the details you need on our website:
www.regscan.com/linkit.htm

REGSCAN
INCORPORATED™

The Power to Perform.

Environmental Engineering

Environmental Technology Inc
Environmental Waste Management
Associates LLC
Forrester Group Inc
Golder Associates Inc
SEE AD ON PAGE 27, 105
Government Institutes Inc
Groundwater Services Inc
HDR Engineering Inc
HPC Inc
Hahn & Associates Inc
Haley & Aldrich Inc
Hands & Associates Inc
Hargis & Associates Inc
Hazen & Sawyer PC
Hixson A/E Inc
Holzmacher, McLendon
& Murrell PC
Huntington Environmental
Systems
HydroQual Inc
In-Situ Oxidative Technologies Inc
Innovative & Creative
Environmental Solutions
Innovative Consultants Inc

Institute Environmental
Technologies Inc
International Technology Corp
J L & Associates
JWB Environmental Engineering
Jacobs Environmental Inc
Jones & Henry Engineers Ltd
K & S Engineers Inc
Kepner Plastics Fabricators Inc
Kilam Associates
Consulting Engineers
Komex-H2O Science
Lan Associates Inc
Laurel Environmental
Associates Inc
Leggett, Brashears
& Graham Inc
Lemna USA Inc
**Lexicon Environmental
Associates Inc**
SEE AD ON PAGE 7, 135
Midwest Research Institute
Morrison Knudsen Corp
Moshman Environmental Engineering
NES Inc

Nassef Engineering &
Equipment Co Inc
Occusale Inc
Omni Professional Environmental
Associates PA
P E LaMoreaux & Associates
PCCI Inc
Pacific Environmental Services Inc
Patrick Engineering Inc
Penn Environmental &
Remediation Inc
Pollution Research & Technology Inc
Quality Assurance Associates
Raytheon Environmental & Quality
Programs
Regulatory Compliance
Management Inc
Resochem Corp
Roberts & Schaefer Co
Rocky Mountain Consultants Inc
Rosengarten, Smith & Associates Inc
Roy F Weston Inc
**Rust Environment
& Infrastructure**
SEE AD ON PAGE 3, 115

Environmental Site Assessment

SBP Technologies Inc
SEMCO
SRS Technologies
SSOE Inc
STC Remediation Inc
STV Inc
Savant Enterprises LLC
Slosky & Co Inc
Source Environmental Sciences Inc
TRC
Talem Inc
Tetra Tech NUS
Thomas Hill Inc
Consulting Engineers
Touhill Technology
Management Corp
ToxGon Corp
Tribble & Richardson
UAI Group LP
US Filter/Lo-Cat
Van Note-Harvey Associates PC
Versar Inc
WCM Group Inc

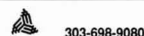
Carter, Damell & Grubbs
Engineers Inc
Central Wisconsin Engineers &
Architects Inc
Chemical Information System
Clayton Group Services Inc
Commonwealth Biomonitoring
Compliance Solutions Occupational
Trainers Inc
Conversion Technology Inc
Crouse Enterprises Inc
Dahl & Associates Inc
Dames & Moore Group
Design Compliance Assoc
Dewberry & Davis
Dominion Environmental
Consultants Inc
Dragun Corp
Earth Data Inc
Earthsource Consulting Inc
Ecology & Environment Inc
Encon Services Inc
Environmental & Information
Resources Inc



Waid & Associates
Walsh Environmental Scientists &
Engineers Inc
Water Technology
International Corp
Western Water Consultants Inc
Wonder Makers Inc

Environmental Law

AIL Systems Inc
Academy of Certified Hazardous
Materials Managers



Adrian Brown Consultants Inc
Business & Legal Reports
Earthsource Consulting Inc
Eckenfelder Inc
Ecology & Environment Inc
Environmental Mitigation Group
Forrester Group Inc
Government Institutes Inc
Moshman Environmental Engineering
P E LaMoreaux & Associates
Professional Analytical &
Consulting Services Inc
Regulatory Compliance
Management Inc
Rutgers University-Office of
Continuing Prof Educ
West Group
SEE AD ON PAGE 4, 111

Environmental Site Assessment

A B B Environmental Services Inc
ABR Inc
APEX Environmental Services Inc
AQC Environmental Engineers
ATC Associates Inc
Acculab Environmental Services Inc
Acton-Mickelson Environmental Inc
Adirondack Environmental
Associates Inc
Advanced Geoservices Corp
Aires Consulting Group Inc
American Waste Services Inc
B A Liesch Associates Inc
BDM International Inc



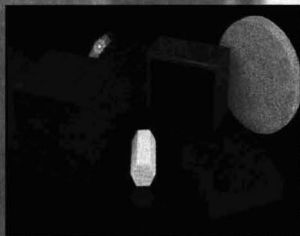
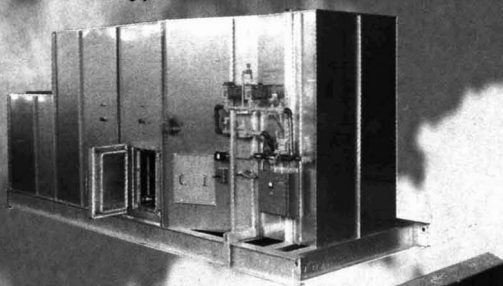
BEM Systems Inc
BioRenewal Technologies Inc
Bisland, Bouck & Lee Inc
Boelter & Yates Inc
Brown & Caldwell
Buchart-Horn Inc
Business & Legal Reports
CPI Electronic Publishing
Carson Geologic & Environmental Inc

Environmental Dimensions Inc
Environmental Liability
Management Inc
Environmental Maintenance
Technology
Environmental Mitigation Group
Environmental Personnel Agency
**Environmental
Resource Center**
SEE AD ON PAGE 85, 159
Environmental Resources Center Inc
Environmental Resources
Management
Environmental Risk Ltd
Environmental Services Inc
Environmental Solutions Inc
Environmental Systems &
Technologies Inc
Environmental Technologies Inc
Environmental Technology Inc
Environmental Waste Management
Associates LLC
Environmental Works Inc
Evergreen Environmental Group
Forrester Group Inc
Geo-Environmental Solutions
GeoCore Services Inc
Geophysical Survey Systems Inc
Golder Associates Inc
SEE AD ON PAGE 27, 105
Government Institutes Inc
Groundwater & Environmental
Services Inc
HDR Engineering Inc
HPC Inc
Hahn & Associates Inc
Haley & Aldrich Inc
Handex Environmental Midwest
Hands & Associates Inc
Hargis & Associates Inc
HazWaste Technologies Corp
Hazen & Sawyer PC
Haztech Systems Inc
Holzmacher, McLendon & Murrell PC
HydroQual Inc
Industrial Marine Service Inc
Innovative & Creative
Environmental Solutions
Institute Environmental
Technologies Inc
J L & Associates
JWB Environmental Engineering
Jacobs Environmental Inc
K & S Engineers Inc
Kilam Associates
Consulting Engineers
Lan Associates Inc
Laurel Environmental Associates Inc
Leggett, Brashears & Graham Inc
**Lexicon Environmental
Associates Inc**
SEE AD ON PAGE 7, 135
Metropolitan Manufacturers
Association
Microbial Insights Inc
Miguel A Antonetti & Associates
Moshman Environmental Engineering
NES Inc
National Quality Assurance USA
Network Environmental Systems Inc
Normandeau Associates

VOC Destruction Guaranteed

ADCAT™ VOC Catalyst New or Retrofit Systems

- "Zero Pollution" Capability.
- Customer Service is our Highest Priority.
- Lower Capital and Lower **TOTAL ENERGY** cost (Fuel & Electricity) than RTO.



Reach the Goal Line

Goal Line Environmental Technologies
2045 East Vernon Avenue, P.O. Box 58324
Los Angeles, California 90058
Tel. (213) 233-2224, Fax (213) 233-7428

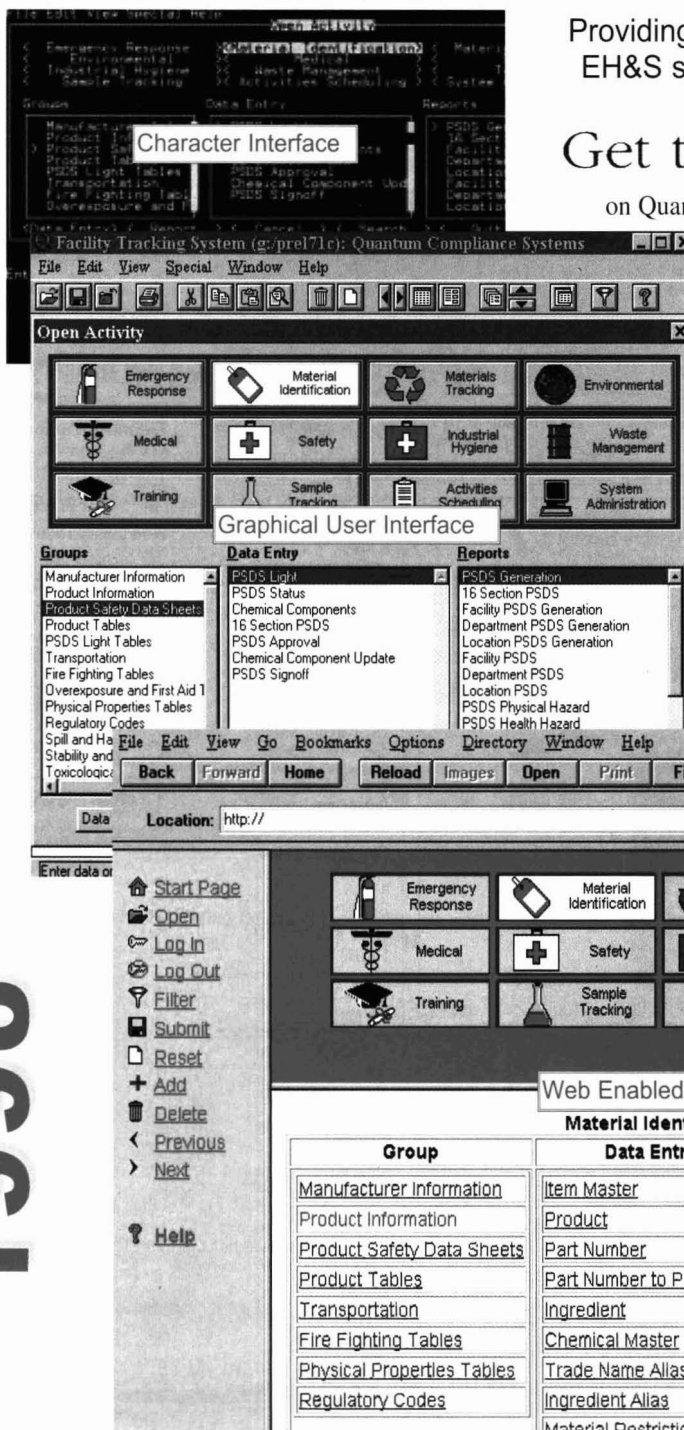


GOAL LINE
ENVIRONMENTAL TECHNOLOGIES

1987

1995

1998



Providing comprehensive integrated
EH&S solutions for over ten years

Get the **FacTS**TM

on Quantum's Facility Tracking System

Fact #1:

FacTS is successfully installed and
working in diversified industries

Fact #2:

FacTS offers a global enterprise
system with integrated multilingual
capabilities

Fact #3:

FacTS includes over 30 proven
modules to address all areas of EH&S
regulatory record keeping

QUANTUM
Compliance Systems, Inc.

Phone: (734) 761-2175
Fax: (734) 761-2058

WWW: //www.qcs-facts.com/
E-Mail: quantum@qcs-facts.com



Copyright © 1998 Quantum Compliance systems, Inc. All
rights reserved. All registered trademarks are the proper-
ties of their respective owners.

Circle 120 on card.

Environmental Site Assessment

Occusa Inc
P E LaMoreaux & Associates
Pacific Environmental Services Inc
Pantera Environmental
Consulting/Real Estate Recovery
Patrick Engineering Inc
Penn Environmental &
Remediation Inc
Phase I Environmental Inc
Pollution Research & Technology Inc
Princeton-Somerset Group Inc
Quality Assurance Associates
R T Corporation
Raytheon Environmental & Quality
Programs
Resochem Corp
Resource Management Group Inc
Rocky Mountain Consultants Inc
Roehrig & Associates Inc
Ronald L Beethe, CIH
Rosengarten, Smith & Associates Inc
Rust Environment & Infrastructure
SEE AD ON PAGE 3, 115
Rutgers University-Office of
Continuing Prof Educ

SSOE Inc
STV Inc
Safety & Environmental Resources Inc
Sanford L Werner, Consulting
Geohydrologist
Savant Enterprises LLC
Serengeli Environmental
Slosky & Co Inc
Solar Testing Laboratories Inc
Source Environmental Sciences Inc
Stonehill Environmental Inc
Strategic Diagnostics Inc
SEE AD ON PAGE 161
TRC
Target Environmental Services
Terra Systems Inc
Tetra Tech NUS
Thomas Hill Inc Consulting Engineers
Touhill Technology Management Corp
University of California Extension-
CMIL
University of Texas at
Arlington/Environmental Research
Van Note-Harvey Associates PC
Versar Inc

Victoria Group Inc
Vista Information Solutions Inc
SEE AD ON PAGE 71, 150
WCM Group Inc
Walsh Environmental Scientists &
Engineers Inc
Water Technology International Corp
West Group
SEE AD ON PAGE 4, 111

**Environmental
Test Chambers**
Business & Legal Reports
Dynalene Heat Transfer Fluids
Precision Analysis Inc
SGS US Testing Co Inc
Terra Universal Inc
Equipment Rental
ASC Professionals
Baker Tanks Inc
Brown Bear Corp
SEE AD ON PAGE 55, 141
Cherokee Instruments Inc
ERD Environmental Inc

Enviro Supply & Service Inc
Envirogenics
Environmental Supply Co Inc
Geotech Environmental Equipment Inc
Graseby Andersen Inc
SEE AD ON PAGE 69, 128
Hydrolab Corp
SEE AD ON PAGE 64, 126
In-Situ Inc
Keck Instruments Inc
King Buck Technology
Mincy Inc
Optimal Technologies Inc
Pace Environmental Products Inc
Philip ServicesCorp/Industrial
Services Group
Premier Safety & Service Inc
Rain for Rent
Scantek Inc
Trewin & Smith Inc
Vista Information Solutions Inc
SEE AD ON PAGE 71, 150
Visual Inspection Technologies Inc

Evaporation Equipment
Amtec Inc
Aqua-Chem Inc
Automation Products Inc
Brinkmann Instruments Inc
LCI Corp
Landa Water Cleaning Systems
Mountain Valley Ventures Inc
Niro Inc
RGF Environmental Systems Inc
SAMSCO Inc
UPE Universal Process
Equipment Inc
US Filter/HPD
United States Filter Corp

Excavating Service
Conti Environmental Inc
Handex Environmental Midwest
Nielsons Inc
Trumpf Power Tools
SEE AD ON PAGE 167

Expansion Joints
PolySpec Corp
Red Valve Co Inc
Turner Enviro Logic Inc
Vitacluc Co of America

Fabric Filter
Advanced Environmental Systems Inc



Airotech Inc
Akzo Nobel Geosynthetics
Albax Inc
Atlantic Screen & Mfg Inc
Dustvent Inc
Flex-Kleen
McGill Airclean Corp
Research-Cottrell
Thiel Air Technologies
U F Strainrite
SEE AD ON PAGE 10, 116
Wheelabrator Air Pollution Control Inc

**Fabricated
Metal Products**
Associated Design &
Manufacturing Co
Brown-Minneapolis Tank --
Div of ITEQ Storage Systems
Bucks Fabricating



Halliday Products Inc
MGS Inc
MITI Manufacturing
Universal Fabric Structures

Fan Repair/Rebuilding
Abresist Corp
Boiler & Burner Systems

Brown Bear Corp
SEE AD ON PAGE 55, 149
Wm W Meyer & Sons Inc

Fans
Ametek-Regenerative Blower Group
Andersen 2000 Inc
GE Co
New York Blower Co
Wm W Meyer & Sons Inc
Feeders
Eriez Magnetics
K-Tron America Inc
LCI Corp
Neptune Chemical Pump Co
US Filter/Wallace & Tiernan
Watson-Marlow Inc
Wm W Meyer & Sons Inc
Wysmont Co Inc

**Feedwater
Treatment Equipment**
Automation Products Inc
Miox Corp
Watson-Marlow Inc
Western Filter Products/Osmosics

Fiberglass Products
Chem Prof Door Co
Cosycos Inc
Hobas Pipe USA Inc
New York Blower Co
Plasti-Fab Inc
Smith Fiberglass Products Co
Warminster Fiberglass Co

**Field Testing
Instruments/Services**
Advanced Concepts & Design Inc
Air Resource Specialists Inc
Alfa Laval Sharples
Alicat Scientific Inc
Buffalo Drilling Co Inc
Chermetics Inc
Cherokee Instruments Inc
Environmental Monitoring Systems
Geo-Environmental Solutions
Haztech Systems inc
Inficon

SEE AD ON PAGE 11, 107
Midwest Research Institute
Omega Engineering Inc
SEE AD ON PAGE 2, 133
Omni Professional Environmental
Associates PA
Precision Analysis Inc
SRI Instruments
STV Inc
Strategic Diagnostics Inc
SEE AD ON PAGE 161

Talem Inc
Taylor Technologies Inc
Visual Inspection Technologies Inc
Wilks Enterprise Inc
Wonder Makers Inc

Filter Accessories
Albax Inc
**Amiad Water Systems
Technologies**
SEE AD ON PAGE 67, 100

Automatic Filters Inc
Gemstone Environmental
Hayward Industrial Products Inc
Jensen Inert Products
PacTec Inc
Progressive Equipment Corp
RGF Environmental Systems Inc



Rosedale Products Inc
Water Works
Zelon Analytical

Filter Presses
Albax Inc
Automatic Filters Inc
CK Software Inc
Flo Trend Systems Inc

Filter Presses

The *new* ERIIS Facility Profile Report . . .

Because some potential business opportunities require a closer look.



The company financial and business records of your client's new business opportunity have been thoroughly investigated. To the naked eye, it looks like a great deal.

But look closer . . .

What do the EPA and state agencies have to say about the company's environmental compliance record? Penalties for violation of environmental regulations can be astronomical.

The *new* ERIIS Facility Profile Report helps you to help your client by searching government filings and records on any company in the United States. You'll get invaluable, detailed company information

on issues such as:

- Shipments of hazardous materials
- Toxic materials handling practices
- Superfund liability
- Permit and inspection histories
- Civil and criminal enforcement actions

And there's much more! Yet the best part is that all it takes is a PC, the **FREE ERIISnet** software, and **30 seconds!**

Join the thousands of environmental professionals who rely on ERIIS for the fastest and most reliable environmental facility compliance histories in the industry.

For more information on the ERIIS Facility Profile Report, and to receive your **FREE ERIISnet Access Software**, call today at:

1-800-989-0403

Environmental Risk Information & Imaging Services
505 HUNTMAR PARK DRIVE, SUITE 200 • HERNDON, VA 20170 • PHONE: 703-834-6000



<http://www.omega.com>
e-mail: info@omega.com

omega.com
ΩOMEGA

One Omega Drive, P.O. Box 4047
Stamford, CT 06907-0047



Collection Series

To Request Your
DILBERT™ Deck Card Pack, Dial:
1-(203)-328-1266

Get Your Dilbert Card Deck

DILBERT™ by Scott Adams

I DON'T CARE WHAT IT
"LOOKS" LIKE ON THE
ORG CHART! YOU'RE AN
INTERN, NOT MY BOSS!



4/11/97

DILBERT © United Feature Syndicate, Inc.

No. 37

E-mail: SCOTTADAMS@aol.com

I JUST SAW THE NEW
ORG CHART. CONGRAT-
ULATIONS ON YOUR
PROMOTION, ASOK!



4/11/97 © 1997 United Feature Syndicate, Inc.

LET'S GO
MAKE SOME
STRATEGIES
AND PRETEND
IT'S WORK!

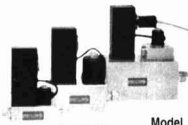


NOT SO
LOUD. THE
L-U-S-E-R
MIGHT
HEAR.



Where Do I Find Air/Gas Flow Monitors?
OMEGA...Of Course!

High Flow Rate Mass
Controllers and Meters

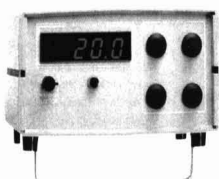


Document #4049
Model FMA700/800
Basic Unit
\$903

omega.com

ΩOMEGA

Electronic Boxes/Rate Meter



Document #4248
FMA-78P2/FMA-78P4
Basic Unit
\$1731

As Seen In...

General Purpose Air
Velocity Transducer

FMA900 Series
\$822



Document #4029
OMEGA

For more information, call OMEGAfax™
on-line publishing service at 1-800-848-4271
and request desired document numbers.

Handheld Anemometers



Model HHF91
Basic Unit
\$245

Document #4224
OMEGA

For Sales and Service, Call:

1-800-82-66342™
1-800-TC-OMEGA



Where Do I Find pH and Conductivity Meters?
OMEGA...Of Course!



pH/Conductivity
Meters
PHH60/80 Series
\$199

omega.com

ΩOMEGA

e-mail: info@omega.com

NEW! FREE!

Vol. MM™
21st Century™ Preview Edition

YOUR SOURCE FOR

Temperature pH & Conductivity
Flow & Level Electric Heaters
Pressure, Strain & Force Environmental
Data Acquisition

Request The Vol. MM™ 21st Century™ Preview
Edition **Circle** No. 122 or Dial 1-800-848-4271 for
OMEGAfax™ Service and Request Document #9983

e-mail: info@omega.com

<http://www.omega.com/track/sp-ep/398>



NEW! FREE!

For more information, call OMEGAfax™
on-line publishing service at 1-800-848-4271
and request desired document numbers.

ISO 9001
CERTIFIED
CORPORATE QUALITY

OMEGA ENGINEERING, INC., ONE OMEGA DRIVE, P.O. BOX 4047, STAMFORD, CT. 06907-0047
©COPYRIGHT 1998 OMEGA ENGINEERING, INC. ALL RIGHTS RESERVED.

See Dilbert® On The Reverse Side Of This Card!

<http://www.omega.com>

Benchtop pH Meters



Model PHB300
\$415

Document #5179
OMEGA

Portable pH Meter with Case

Model PHH-253-KIT
\$475



Document #5113
OMEGA

For Sales and Service, Call:

1-800-82-66342™
1-800-TC-OMEGA



OMEGAfax SM

OMEGA's 24-Hour-A-Day, On-Demand Publishing Service
DIAL 1-800-848-4271

For Sales and Service Call: **1-800-82-66342** SM

omega.com®

ΩOMEGA®

Filter Presses

Frontier Technology Inc
Gemstone Environmental
Hilliard Corp
Kornline-Sanderson
Morlan & Morlan Inc
Philip Services Corp/
Industrial Services Group
Tristate Machinery Co
UPE Universal Process
Equipment Inc



US Filter/JWI
United States Filter Corp
Waste-Tech Inc
Water Works
Whiteford Environmental Services

Filtration Systems

Abanaki Corp/Oil Skimmer Div
SEE AD ON PAGE 46, 152
Acme Engineering Products Inc

Advanced Environmental
Systems Inc

Albax Inc
Amiad Water Systems
Technologies

SEE AD ON PAGE 67, 100

Asahi/America Inc
Associated Design &
Manufacturing Co
Automatic Filters Inc
B L Myers Bros Inc
Bio-Reaction Industries Inc
Bird Machine Co
Dynatec Systems Inc
Eriez Magnetics
Flo Trend Systems Inc
Gemstone Environmental
Great Lakes
Environmental Inc

SEE AD ON PAGE 84, 106

Hankison Intl
Hayward Industrial Products Inc
Hilliard Corp
Hydro Group Inc
Kornline-Sanderson

Landa Water Cleaning Systems
MEGA Systems & Chemicals



MST-Modern Safety Techniques
Mott Corp
Neotek Health Technologies Inc
Osmonics
PacTec Inc
Pall Corporation
Pneumafil Corp
Polyonix Separation
Technologies Inc
Progressive Equipment Corp
Rain for Rent



Rosedale Products Inc
S C Altman & Associates
SAMSCO Inc

Flowmeters, Mass

Flotation Equipment

Aeromix Systems Inc
Automation Products Inc

Great Lakes

Environmental Inc
SEE AD ON PAGE 84, 106

Hudson Industries
HydroCal Inc
Kornline-Sanderson
Off-Road Conversions Inc
-MATTRACK
Purac Engineering
Ross Air Systems
Skedco Inc
Tristate Machinery Co

Wolverine (Massachusetts) Corp
SEE AD ON PAGE 80, 156

Flow Instrumentation

Alicat Scientific Inc
American Sigma Inc
Ametek-Regenerative
Blower Group
Asahi/America Inc
Auburn International Inc
Bailey-Fischer & Porter Co
Computer Instruments Corp
Controlotron
Danfoss-Instrumark
Dwyer Instruments Inc
EMCO Flowmeters
Fluid Components Intl
Fuji Electric Corp of America
Furness Controls Inc
G O Environmental Inc
GNM Inc
GO Mavs
Gems Sensors Inc
George Fischer Inc
Global Water
Harwil Corp
Hayward Industrial Products Inc
Isco Inc
Kanomax USA Inc

Having Trouble Finding Affordable, Quality Coverage?

It is easy if you have the right vision.

More than a decade ago, American Safety had the vision to protect contractors, consultants and facility owners against environmental remediation liability.

We have the expertise and experience to solve the insurance problems facing the environmental services industry.

Contact an innovative, specialty insurance leader providing superior coverage and unparalleled service.

Rated "A" (Excellent) by A.M. Best

(800) 388-3647

AMERICAN SAFETY INSURANCE GROUP

Liability Coverages & Workers' Compensation Insurance

Sevenson Environmental
Services Inc

Terra Universal Inc

U F Strainrite
SEE AD ON PAGE 10, 116

UPE Universal Process Equipment Inc
US Filter/Davco
US Filter/JWI
US Filter/Johnson Screens
US Filter/Westates
US Filter/Zimpro
Unifit Corp
United States Filter Corp
Visual Light
Waste-Tech Inc
Water Remediation Technologies
Water Works
Winston Manufacturing Corp
Zorbit Technologies Inc

Fire Safety Equipment

AIM Safety USA Inc
Bacharach Inc
Central Electronics Corp
Direct Safety Co Inc
Gemtor Inc
Grace Industries Inc
Justrite Mig Co
M J S & Associates
MITI Manufacturing
Mountain Valley Ventures Inc
Premier Safety & Service Inc
Scott Health & Safety
Sur-Loc Inc
Tracker Technologies
Water-Jel Technologies
Western Research Institute
Whelen Engineering Co Inc

Fittings

Esilon Thermoplastics

SEE AD ON PAGE 9, 117

Midland Metal Mig Co
Smith Fiberglass Products Co



VICI Valco Instruments Co Inc

Flame Arrestors

Martin Marietta Magnesia
Specialties Inc

SEE AD ON PAGE 165

Mott Corp

Flash Point Tester

Environmental Liability
Management Inc

Omega Engineering Inc

SEE AD ON PAGE 2, 133



Petroleum Systems Services Corp

Floating Baffles

EnviroNics Inc
Kepner Plastics Fabricators Inc
MPC Containment Systems Ltd
Slickbar Products Corp

Floats/Pontoons

Gator Pump Inc

Flocculants

Automation Products Inc
Betz Dearborn
Chemical Lime Co
Cytac Industries Inc
Ecosorb International Inc
General Chemical Corp
Kem-Tron Technologies Inc
Landa Water Cleaning Systems
Nalco Chemical Co
RGF Environmental Systems Inc
Taylor Environmental
Products Inc
SEE AD ON PAGE 60, 159

Water Remediation
Technologies



McMillan Co

Milltronics Inc

SEE AD ON PAGE 6, 124

Monitek Technologies Inc
OI Analytical

Omega Engineering Inc

SEE AD ON PAGE 2, 133

Omegadyne Inc
Panametrics Inc
Peek Measurement
A Thermo Electron Co
Plast-O-Matic Valves Inc
Scott Specialty Gases
Sparling Instruments Inc
Stevens Water
Monitoring Systems
Thel-Mar Co
Water Specialties

Flowmeters, Mass

Alicat Scientific Inc
Ametek-Regenerative
Blower Group



Ametek-Rotron Biofiltration
Bailey-Fischer & Porter Co
Controlotron
EMCO Flowmeters
Fluid Components Intl
Fuji Electric Corp of America
K-Tron America Inc



McMillan Co

Omega Engineering Inc

SEE AD ON PAGE 2, 133



THERE'S MORE THAN ONE ROAD YOU CAN TAKE

There are many federal, state and local environmental regulations that affect fleets. Which ones demand your attention? Compliance with the USEPA underground storage tank standards is one to watch. Penalties are expected after the December 1998 final deadline -- and that's a concern if you're not in compliance.

Compliance isn't toll-free but it's the highway to the future. Our fleet experience helps us to recognize danger signs and suggest safe, alternate routes. Get on the road to cost-effective compliance. Talk to us!

1 Assessments & Audits

Analyze the "payload" and assess risks before moving ahead.

- Site Assessments
- Property Audits
- Compliance Audits

2 Facility operation programs

Drains, drums and other materials aren't a "hazard" if you know how to handle them.

- Sewers and Drains
- Drum Labeling and Storage
- Hazardous Waste Disposal
- Used Oil Management
- Compliance Manuals

3 Storage tank programs

What to do with tanks if you can't do without them. There are plenty of options.

✓ If your tanks are leaking

- Repair
- Replace
- Close

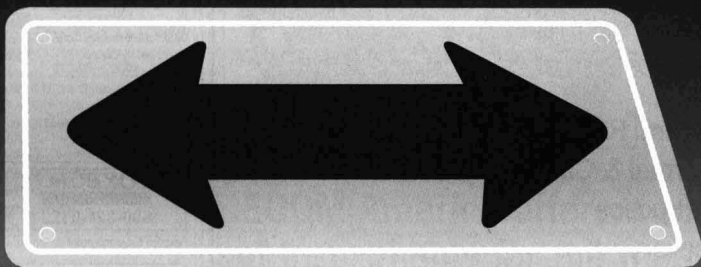
✓ If you've had a leak or spill

- Remediation Programs

✓ If your tanks are tight

- Monitoring & Inspection Programs
- Aboveground & Underground Tank Management Programs

There's more than one road to compliance. Ask Lexicon to map out the best route for you!



LEXICON

Environmental Associates, Inc.

790 East Market Street, Suite 270 West Chester, PA 19382-4806

(610) 344-3380 FAX: (610) 344-3388

email: LexiconEn@aol.com

Regional Offices in Metro-New York and New England

Custom Compliance Manuals

Let us help you prepare yours, as we have helped many others. Call today for the facts and figures!



Flowmeters, Mass

Peek Measurement A Thermo
Electron Co
Scott Specialty Gases

Flowmeters, Variable Area

Alicat Scientific Inc
Bailey-Fischer & Porter Co
Blue-White Ind
Fuji Electric Corp of America
Hersey Measurement Co
Omega Engineering Inc

SEE AD ON PAGE 2, 133

Scott Specialty Gases
US Filter/Wallace & Tieman

Flue Gas Conditioning



Automation Products Inc
Misonix Inc

SEE AD ON PAGE 18, 143

Research-Cottrell

Technical Products & Services Inc
Wheelabrator Air Pollution
Control Inc

Flue Gas Desulfurization

Andersen 2000 Inc
Bird Machine Co
Chemical Lime Co
Clean Gas Systems Inc
McGill Airclean Corp



Premier Services Corp
Research-Cottrell
VFL Technology Corp
Wheelabrator Air Pollution
Control Inc

Flumes/Weirs

American Sigma Inc
Plasti-Fab Inc
Thel-Mar Co
Warminster Fiberglass Co

Flushing/ Cleaning Equipment

Godwin Pumps of America Inc
Mincy Inc
RMT Machinery Inc
SRS Industrial Engineering Inc
Technical Products
& Services Inc

Fly Ash Recovery/ Treatment Systems

Acme Engineering Products Inc
Advanced Dust Solutions Inc
Automatic Filters Inc
General Chemical Corp
Roberts & Schaefer Co
VFL Technology Corp

Freeze Protection

Dynalene Heat Transfer Fluids
Therm-Omega-Tech Inc

Fume Exhaust System

Adwest Technologies Inc
SEE AD ON PAGE 28, 153

Aerology
Airflow Systems Inc
Clean Gas Systems Inc
Dustvent Inc
Misonix Inc

SEE AD ON PAGE 18, 143

Neoterik Health Technologies Inc
New York Blower Co
Prototech Co

SEE AD ON PAGE 29, 31, 145, 147

REECO
Trewin & Smith Inc
UAI Group LP

Fume Hoods

Airflow Systems Inc
Environmental Monitoring Systems
Neoterik Health Technologies Inc
Terra Universal Inc
Turner Enviro Logic Inc

Gas Chromatographs



Foxboro Environmental
HNU Systems Inc

SEE AD ON PAGE 81, 162

Infincon

SEE AD ON PAGE 11, 107

Midac Corp
Monitek Technologies Inc
PE Photovac

SEE AD ON PAGE 79, 144

SENTEX Systems Inc
SRI Instruments

Gas Cooling Equipment

Baldwin Environmental Inc
Technical Products & Services Inc

Gas Detectors

AIM Safety USA Inc
AMS Inc
ASC Professionals
Acme Engineering Products Inc
Bacharach Inc
Bailey-Fischer & Porter Co
Biosystems Inc
CEA Instruments Inc
Capital Controls Co Inc
Chlorinators Inc
Control Instruments Corp



Detector Electronics Corp
Direct Safety Co Inc
Dyna-Fid Inc
EIT

Enmet Corp
Enviro Supply & Service Inc
Enviro-Equipment Inc



Foxboro Environmental



Gas Tech Inc
General Monitors
Grace Industries Inc
Incon Inc
Industrial Scientific Corp
K & M Environmental Inc
Metrosonics Inc
Mil-Ram Technology Inc
Mine Safety Appliances Co
PE Photovac
SEE AD ON PAGE 79, 144
Premier Safety & Service Inc
RAE Systems Inc
SKC Inc

Scott Health & Safety
Scott Specialty Gases
Sierra Monitor Corp



Spectrex

Thermo Environmental Instruments

SEE AD ON PAGE 43, 113

US Industrial Products Co



VICI Valco Instruments Co Inc
Zellweger Analytics Inc

Gas Source/Supplies

Air Products & Chemicals Inc
AirSep Corporation-Industrial Div
BOC Gases
Jensen Inert Products
Scott Specialty Gases

Gas Storage Equipment

Brown-Minneapolis Tank -
Div of ITEQ Storage Systems
ConVault Inc
Safety Storage Inc
Scott Specialty Gases

Gaskets/Packing/Seals

General Container Corp

Generators/Emergency

MGS Inc

Geographic Information Systems

ABR Inc
Carolina Global Maps
Dames & Moore Group
Dewberry & Davis
ENSR
Entrix Inc
Environmental Systems &
Technologies Inc
Environmental Systems
Research Institute Inc
Golder Associates Inc
SEE AD ON PAGE 27, 105

Harding Lawson Associates
Holzmacher, McLendon
& Murrell PC
Kornex-H2O Science

Morrison Knudsen Corp
Rust Environment
& Infrastructure
SEE AD ON PAGE 3, 115

SEMCOR
Walsh Environmental Scientist &
Engineers Inc

Geophysical Instruments

AMS Inc
Geophysical Survey Systems Inc
Kek Instruments Inc
Kornex-H2O Science

Geotextiles

Akzo Nobel Geosynthetics
Foss Environmental Services
GSE Lining Technology Inc
HPG International Inc
Koester Environmental
Services Inc
Louis R Hovater
Consulting Engineer
MPC Containment Systems Ltd
Reef Industries Inc

Glassware

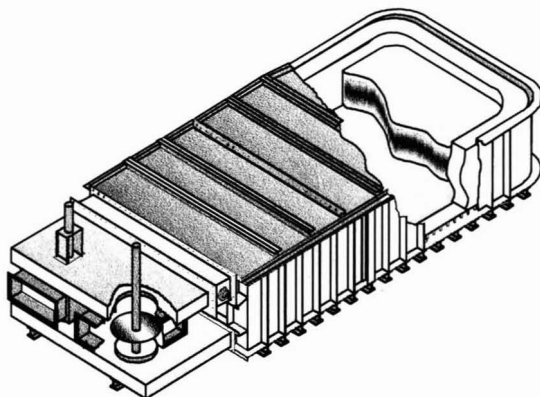
Apex Instruments Inc
Graseby Andersen Inc
SEE AD ON PAGE 69, 128
SKS Bottle & Packaging Inc

Gloves

Mapa Professional
SEE AD ON PAGE 109, 187

OXIDIZER SYSTEMS

The solution to your pollution!



- ▲ Combu-Changer® Regenerative Oxidizer
- ▲ Cor-Pak® Thermal & Catalytic Oxidizers
- ▲ 99% VOC destruction
- ▲ 95% heat recovery
- ▲ ABB Air Preheater, Inc. - a world leader in VOC Control equipment
- ▲ 1100 installations worldwide since 1958
- ▲ An ISO 9001 certified company



ABB Air Preheater, Inc.
P.O. Box 372, Wellsville, NY 14895
Phone (716) 593-2700
Fax: (716) 593-2721

Web Site: <http://www.pollutionline.com/storefronts/preheater.html>

Grit Handling Equipment

Automation Products Inc
D R Cordell & Associates Inc



Flo Trend Systems Inc
Jeffrey-Tropodyne
Waste-Tech Inc
Whiteford Environmental Services

Groundwater Reclamation

Asahi/America Inc
Atlantic Fluidics Inc
BJM Corp
Bisco Environmental
Blackhawk Environmental
Burns & McDonnell Waste Consultants Inc
CleanOX Environmental Services Inc
Delta Cooling Towers Inc
Earth Data Inc
Earthsource Consulting Inc
Ejector Systems Inc
Environmental & Information Resources Inc
Environmental Systems & Technologies Inc
Gedguson DPI Inc
Godwin Pumps of America Inc
Hargis & Associates Inc
Hydro Group Inc
In-Situ Oxidative Technologies Inc
Incon Inc
Leggette, Brashears & Graham Inc
Mark Schultz Associates
Maxon Industries Inc
NES Inc
Oil Skimmers Inc
SEE AD ON PAGE 55, 145
P J Products Co
Pall Corporation
Pantera Environmental
Consulting/Real Estate Recovery
Pollution Research & Technology Inc
Rosengarten, Smith & Associates Inc
Western Filter Products/Osmotics
Western Waste Consultants Inc

Groundwater Testing & Monitoring Equipment

AMS Inc
Acton-Mickelson Environmental Inc
Atlantic Screen & Mfg Inc
Automation Products Inc
BioRenewal Technologies Inc
Blackhawk Environmental
Chemetrics Inc
Chemtrac Systems Inc
Clean Environment Equipment
EPIC Inc
Enviro Supply & Service Inc
Enviro-Equipment Inc
EnviroLine Inc
Environmental Fuel Systems
Fultz Pumps Inc
G O Environmental Inc
Geotech Environmental
Equipment Inc



Global Water
HNU Systems Inc
SEE AD ON PAGE 81, 162
Hydrolab Corp
SEE AD ON PAGE 64, 126

In-Situ Inc
Jensen Inert Products
Keck Instruments Inc
Leggette, Brashears & Graham Inc
MMC International Corp
Microbial Insights Inc
Myron L Co

Off-Road Conversions Inc
-MATTRACK
Pantera Environmental
Consulting/Real Estate Recovery



QED Environmental Systems Inc
Rocky Mountain Consultants Inc
SENTEX Systems Inc
Schumacher Filters America Inc
Strategic Diagnostics Inc
SEE AD ON PAGE 161



Turner Designs
US Filter/Johnson Screens
Voss Technologies Inc
Wicks Enterprise Inc

Groundwater Treatment/Services

Abanaki Corp/Oil Skimmer Div
SEE AD ON PAGE 46, 152

Acton-Mickelson
Environmental Inc
Adirondack Environmental
Associates Inc



Adrian Brown Consultants Inc
Aeromix Systems Inc
American Waste Services Inc
Atlantic Screen & Mfg Inc
August Mack Environmental Inc
B A Liesch Associates Inc
B L Myers Bros Inc
BDM International Inc
Bisco Environmental
Boelter & Yates Inc
Buffalo Drilling Co Inc
Calgon Carbon Corp
Carbtrol Corp
Carson Geologic & Environmental Inc
Carter, Darnell & Grubbs
Engineers Inc
Chapman Inc
CleanOX Environmental Services Inc
Confi Environmental Inc
Creative Waste Management Inc
Dahl & Associates Inc



Dames & Moore Group
Dancer Communications Inc
Dziurman/Associates PC
ENSR
Eckenfelder Inc
Eco Services Inc
Enercon Services Inc
Enercon Services Inc
Entrix Inc
Environmental Fuel Systems
Environmental Maintenance
Technology
Environmental Technology Inc
Envirotrol Inc
Geo-Environmental Solutions
Golder Associates
SEE AD ON PAGE 27, 105
Groundwater & Environmental
Services Inc
Groundwater Services Inc
HPC Inc
Hahn & Associates Inc
Haley & Aldrich Inc
Handex Environmental Midwest
Harding Lawson Associates
Hargis & Associates Inc
HazWaste Technologies Corp
Hydro Group Inc
Hydro Quip Inc

In-Situ Oxidative
Technologies Inc
Industrial Marine Service Inc
Institute Environmental
Technologies Inc
International Technology Corp
Jacobs Environmental Inc
K & S Engineers Inc
Killam Associates
Consulting Engineers
Komex-H2O Science
Laurel Environmental
Associates Inc
Leggette, Brashears
& Graham Inc
**Lexicon Environmental
Associates Inc**
SEE AD ON PAGE 7, 135



**Martin Marietta Magnesia
Specialties Inc**
SEE AD ON PAGE 165

Metropolitan Manufacturers
Association
Morrison Knudsen Corp
NEEP Systems
NES Inc
Nassef Engineering &
Equipment Co Inc
Omni Professional Environmental
Associates PA
Onron Enterprises
P E LaMoreaux & Associates
Pantera Environmental
Consulting/Real Estate Recovery
Penn Environmental &
Remediation Inc
Phyto Works Inc



Premier Services Corp
Rutgers University-
Office of Continuing Prof Educ
SBP Technologies Inc

Solvay Interco Inc
TRAK Environmental Group Inc



Telog Instruments
Terra Systems Inc
US Filter/Westates
Unipure Environmental
Van Note-Harvey
Associates PC
Versar Inc
WCM Group Inc
Walsh Environmental Scientist &
Engineers Inc
Water Remediation Technologies

Hazardous Material Handling

APEX Environmental Services Inc
Academy of Certified Hazardous
Materials Managers
Advanced Concepts & Design Inc
American Rolloff



The Leader in Portable Emission Analyzers



- O₂, CO, NO, NO₂, SO₂ CxHy measurements
- Easy to Use
- Reliable Accurate
- Built for tough environments
- Optional Sample Conditioning
- Meets State & Federal Regulations

ECOM America offers a wide range of instruments for the measurement of emissions from Boiler, Burner and Engine Applications.

Call for Free Literature or a Demonstration Today!

ECOM America Ltd.

3075 Breckinridge Blvd. #420 • Duluth, GA 30096

Phone (770) 806-0220 • Fax (770) 806-0120

Visit our Web Site at www.ecomusa.com

Hazardous Material Handling

Andax Environmental Corp
Bayou City Pump Works Inc
Business & Legal Reports
Carson Geologic & Environmental Inc
Chemical Information System
Conti Environmental Inc
EOHSI-CET
Environmental Consulting Ltd
Image Wave Corp
Justrite Manufacturing Co
MPC Environmental
Marketing Counselors International Inc
Mercury Technologies Intl LP
Network Environmental Systems Inc
Process Packaging & Control Inc
Racal Health & Safety Inc
SEMCO
Safety Management Resources Corp
Safety Storage Inc

Servenson Environmental Services Inc
Smalls Conveyors
Sorbent Products Co Inc
ToxGon Corp
Tracker Technologies
Tri-State Environmental
Products & Equipment
University of California Extension-CMIL
Workplace Safety Products
Zorbit Technologies Inc

**Hazardous Material/
Waste Disposal**
Advanced Environmental
Recycling Co LLC
American Waste Services Inc
B A Liesch Associates Inc
Bio-Reaction Industries Inc
Business & Legal Reports

ConVault Inc



Eldredge Inc
Environmental Works Inc
Evergreen Environmental Group
Image Wave Corp
Industrial Marine Service Inc
MITI Manufacturing
Mercury Technologies Intl LP



Radiac Environmental Services
Reactivities Management Corp

Rhodia Inc Eco Services
Roehrig & Associates Inc
Safelete of America Inc



Surface Combustion Inc
Terra Systems Inc
US Filter Recovery Services
University of California Extension-CMIL
West Group
SEE AD ON PAGE 4, 111

Hazardous Waste Containers

Albax Inc
American Rolloff
Assmann Corporation of America
Baker Tanks Inc
Basic Concepts Inc
Bes-Pac Inc
Bucks Fabricating
Chem-tainer Industries
ConVault Inc
Easi-Set Ind



Eldredge Inc
Environmental Compliance Products
General Container Corp
Justrite Mfg Co
McPhee Environmental Supply
Process Packaging & Control Inc
Radiac Environmental Services
Rain for Rent
Rexam Muxco Inc
Safety Storage Inc
Skolnik Industries Inc
Specialized Cargo Handling Services
U F Strainrite
SEE AD ON PAGE 10, 116
Universal Fabric Structures
Waste Control Systems Inc
Youngstown Barrel & Drum

Hazardous Waste Equipment

Advanced Concepts & Design Inc
Albax Inc
American Rolloff
Andersen 2000 Inc
Automation Products Inc
Basic Concepts Inc
Bayou City Pump Works Inc
Brown Bear Corp
SEE AD ON PAGE 55, 149
Foss Environmental Services
General Container Corp
Haztech Systems Inc
Hydrocarbon Environmental
Recovery Systems
Justrite Mfg Co
Kappler Protective Apparel & Fabrics
MITI Manufacturing
Maxon Industries Inc
McPhee Environmental Supply
Mincy Inc
New Pig Corp
Occupational Training & Supply Inc
PBR Industries
Petroleum Systems Services Corp
RMT Machinery Inc
SRS Crisafulli Inc
SRS Industrial Engineering Inc
Safety Storage Inc
Thermatrix Inc
ToxGon Corp
Trans Environmental Systems Inc
SEE AD ON PAGE 81, 157

U F Strainrite
SEE AD ON PAGE 10, 116
Waste Control Systems Inc
Western Research Institute

Hazardous Waste Handling

Academy of Certified Hazardous
Materials Managers
Business & Legal Reports

Conti Environmental Inc
DSC Distributors Service Corp



Eldredge Inc
Environmental Consulting Ltd
MITI Manufacturing
MPC Environmental
Marketing Counselors
International Inc



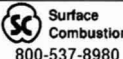
Morrison Knudsen Corp
National Technical Information Service
Racal Health & Safety Inc
Radiac Environmental Services
SEMCO
Safety Management Resources Corp
Sorbent Products Co Inc
University of California
Extension-CMIL

Hazardous Waste/ Mat Treatment, Storage, Disposal

Academy of Certified Hazardous
Materials Managers
Adirondack Environmental
Associates Inc
Automation Products Inc
ConVault Inc
Creative Waste Management Inc
EMAT-Environmental Management &
Technology Expo
Environmental Compliance Products
Envirotrol Inc
Essential Technologies Inc
SEE AD ON PAGE 52, 101
Evergreen Environmental Group
In-Situ Oxidative Technologies Inc
Justrite Manufacturing Co
Koester Environmental Services Inc
Midwest Center for Occupational
Health & Safety



Morrison Knudsen Corp
P E LaMoreaux & Associates
Quantum Compliance Systems Inc
SEE AD ON PAGE 13, 131
Radiac Environmental Services
Rutgers University-Office of
Continuing Prof Educ
Safety Storage Inc



Surface Combustion Inc
US Filter Recovery Services
US Filter/JWI
Universal Fabric Structures
University of California Extension-CMIL
Walsh Environmental Scientists &
Engineers Inc
Zorbit Technologies Inc

Hazardous Waste Recycling

Advanced Environmental
Recycling Co LLC
Alfa Laval Sharples
Business & Legal Reports



Eldredge Inc
Envirotrol Inc
Mercury Technologies Intl LP
PBR Industries
PND Corp
Radiac Environmental Services

Your Environmental Process Requires Oxygen?

A Cost-Saving Oxygen Source is
Right Under Your Nose.



Many of the world's bioremediation, chemical oxidation, and thermal oxidation processes require supplemental oxygen. In the past, gas supply alternatives were limited, not to mention expensive. Today, AirSep® Pressure Swing Adsorption (PSA) Oxygen Systems offer an economical way to produce an on-site supply of oxygen.

To get a free brochure under your nose, call 1-800-320-0303, fax us at (716) 691-8304, or e-mail your inquiry to marketing@airsep.com

Discover how easy and cost-effective it is to produce oxygen on site for your environmental process.

Toll-Free U.S./Canada: 1-800-320-0303



AirSep Corporation 260 Creekside Drive, Buffalo, NY 14228-2075 U.S.A.
Tel: (716) 691-0202 • Fax: (716) 691-8304
E-mail: marketing@airsep.com

AirSep - Worldwide Supplier of Standard & Custom-Designed PSA Oxygen Systems
<http://www.airsep.com>

Rutgers University-Office of
Continuing Prof Educ
SRS Industrial Engineering Inc
SSI Shredding Systems Inc
TNT Technology Co
US Filter Recovery Services
US Filter/Westates
Westport Environmental Systems

Hazardous Waste Services

Acculab Environmental
Services Inc
Advanced Environmental
Recycling Co LLC
BDM International Inc
BEM Systems Inc
Baker Tanks Inc
Beijing Consultants
Benchmark Environmental Corp
Black & Veatch
Blasland, Bouck & Lee Inc
Buchart-Horn Inc
Burns & McDonnell Waste
Consultants Inc
Business & Legal Reports
Carson Geologic & Environmental Inc
Compliance Solutions Occupational
Trainers Inc
Creative Waste Management Inc
Crouse Enterprises Inc
Dewberry & Davis
Dziurman/Associates PC
ENSR



Eldredge Inc
Enercon Services Inc
Environmental Resources Management
Environmental Works Inc
Evergreen Environmental Group
Forrester Group Inc
Geo-Environmental Solutions
Hahn & Associates Inc
Haley & Aldrich Inc
HazWaste Technologies Corp
Hixson A/E Inc
Innovative Consultants Inc
J L & Associates
K & S Engineers Inc
Komet-H2O Science
Laurel Environmental Associates Inc
**Lexicon Environmental
Associates Inc**
SEE AD ON PAGE 7, 135
Mercury Technologies Intl LP
Metropolitan Manufacturers
Association
Midwest Research Institute
Mincy Inc
Moshman Environmental
Engineering
Mystic Air Quality Consultants Inc
NES Inc
Radiac Environmental Services



Reactive Management Corp
Roehrig & Associates Inc
Roy F Weston Inc
**Rust Environment
& Infrastructure**
SEE AD ON PAGE 3, 115
STC Remediation Inc
Safety & Environmental
Resources Inc
Savant Enterprises LLC
Stonehill Environmental Inc
TRAK Environmental Group Inc
TRC
Tetra Tech NUS
US Filter Recovery Services
VFL Technology Corp
Van Note -
Harvey Associates PC
Versar Inc
WES Corp
Wixel

Hazardous Waste Transportation



Eldredge Inc
MPC Environmental
Radiac Environmental Services

Heat Exchangers

ABB Air Preheater Inc
SEE AD ON PAGE 76, 136
Adwest Technologies Inc
SEE AD ON PAGE 28, 153
Anguil Environmental Systems Inc
Boiler & Burner Systems
Brown-Minneapolis Tank-
Div of ITEQ Storage Systems
Dynalene Heat Transfer Fluids
George Fischer Inc
Sam Dick Industries
Thermal Transfer Corp

Heat Recovery Systems

ABB Air Preheater Inc
SEE AD ON PAGE 16, 136
Adwest Technologies Inc
SEE AD ON PAGE 28, 153
Boiler & Burner Systems
Dynalene Heat Transfer Fluids
Hi Temp Technology Corp
Huntington Environmental Systems
John Zink Co



Monsanto Enviro-Chem Systems
REECO
Ross Air Systems
Thermal Transfer Corp
Trewin & Smith Inc
US Filter/HPD

Heating Cable/Tape

Apex Instruments Inc
Omega Engineering Inc
SEE AD ON PAGE 2, 133

Heavy Metal Detectors

Brooks Rand Ltd

Hose/Tubing

Apex Instruments Inc
Dustvent Inc
Gator Pump Inc
Godwin Pumps of America Inc
Jensen Inert Products
Midland Metal Mfg Co
Omega Engineering Inc
SEE AD ON PAGE 2, 133
Watson-Marlow Inc

Humidity Instrumentation

Athena Controls Inc
Control Co
Davis Instruments
EPIC Inc
Hanna Instruments
Met One Instruments Inc
SEE AD ON PAGE 87, 162
Newport Electronics Inc
Onset Computer Corp
Panametrics Inc
Regin Hvac Products Inc
**Rosemount Analytical Inc/
Uniloc Division**
SEE AD ON PAGE 72, 148
Rotronic Instrument Corp
Scientific Sales Inc
Telatemp Corp
Terra Universal Inc
Testo Inc
SEE AD ON PAGE 85, 154
Vaisala Inc

Hydrocarbon Detectors

Baldwin Environmental Inc
BioRenewal Technologies Inc
Cherokee Instruments Inc

Control Instruments Corp
Detector Electronics Corp
Dyna-Fid Inc
Enviro-Equipment Inc
Environmental Fuel Systems



Foxboro Environmental
Gas Tech Inc
General Monitors
Grace Industries Inc
Incon Inc
Industrial Scientific Corp
Infincon
SEE AD ON PAGE 11, 107
J U M of North America Inc
K & M Environmental Inc
Keck Instruments Inc
PE Photovac
SEE AD ON PAGE 79, 144
RAE Systems Inc
SRI Instruments

Sierra Monitor Corp
Thermo Environmental Instruments
SEE AD ON PAGE 43, 113



Turner Designs

Hydrogen Sulfide Control

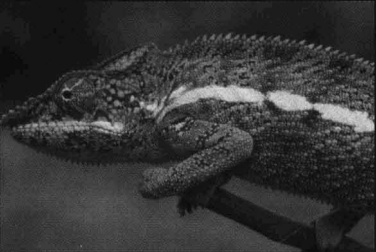
Bio Science Inc
Biothane Corp
Mazzei Injector Corp
SEE AD ON PAGE 87, 160
Odor Control Co Inc
Orec Ozonation Systems/Osmonics
Solvay Interox Inc
US Filter/Lo-Cat
US Filter/RJ Environmental
Westport Environmental Systems

**Hydrogen
Sulfide Detectors**
ASC Professionals

Advanced Pollution
Instrumentation Inc
Arizona Instrument Corp
Biosystems Inc
CEA Instruments Inc
Detector Electronics Corp
EIT
Energy Efficiency Systems Inc
SEE AD ON PAGE 59, 157

Enmet Corp
Gas Tech Inc
General Monitors
HNU Systems Inc
SEE AD ON PAGE 81, 162
Industrial Scientific Corp
Isco Inc
K & M Environmental Inc
Metrosonics Inc
Mil-Ram Technology Inc
Mine Safety Appliances Co
RAE Systems Inc
SRI Instruments
Scott Health & Safety
Sierra Monitor Corp

We're changing!



You've always looked to Det Norske Veritas for world-class training and management systems auditing. We've recently expanded our scope to include a wide range of advisory services addressing safety, health, environmental and quality issues.

Are you ready for a change too? Change with DNV.

Advisory Services


Management Systems Auditing

Implementation Assistance

Benchmarking

Customized Programs

Educational Materials



DET NORSKE VERITAS (U.S.A.), Inc.

Loss Control Management

3805 Crestwood Parkway, Suite 200

Duluth, Georgia 30096

800.486.4524 770.279.0001

www.dnvda.com

**WE HELP YOU
MANAGE RISK
BEFORE IT
AFFECTS YOUR
BOTTOM LINE**



**Where can you find environmental liability
insurance that can help your firm become
more productive?**

Look to CNA/Schinnerer. We put a wealth of resources in your hands so you can manage risk before it affects your bottom line.

We'll review your professional service contracts, identify liability issues and insure the risk properly. Through our newsletters and web site, we'll provide information you can use to help minimize your exposure to risk. And, of course, these services are provided to all our insureds at no extra charge.

So contact your independent agent or broker, or call Schinnerer today for more information at **301-961-9800**.

Victor O. Schinnerer & Company, Inc. Two Wisconsin Circle, Chevy Chase, MD 20815-7022. Phone: 301-961-9800. Fax: 301-951-5444. Coverage provided by Continental Casualty Company, one of the property-casualty companies of CNA. CNA is a registered service mark of the CNA Financial Corporation. This ad is not a contract. Only the policy can provide the actual description of terms, coverages, amounts, conditions and exclusions.

Victor O.
Schinnerer
& Company, Inc.

CNA

Hydrogen Sulfide Detectors Industrial Hygiene

US Industrial Products Co
Zellweger Analytics
Zneotronics/Zsolomat
Zellweger Analytics Inc

**Hydrological
Equipment**

EPIC Inc
Scientific Sales Inc

Identification Systems

Design Compliance Assoc
Haztech Systems Inc
Software Certification Institute
Stick Shop Div of Light
Fabrications Inc
Tracker Technologies

Incineration Systems

ABB Air Preheater Inc
SEE AD ON PAGE 16, 136
Advanced Environmental Systems Inc
Adwest Technologies Inc
SEE AD ON PAGE 28, 153
Andersen 2000 Inc
Anguil Environmental
Systems Inc
Boiler & Burner Systems
ERS Services Inc
Hi Temp Technology Corp
Huntington Environmental Systems
John Zink Co
K C S Environmental Corp



314-275-5907

Monsanto Enviro-Chem Systems



PROCESS TECHNOLOGIES
INCORPORATED
208-385-0900

Process Combustion Corp
Prototech Co
SEE AD ON PAGE 29, 31, 145, 147

REECO
Research Products/
Blankenship
Ross Air Systems



Surface
Combustion
800-537-8980

Surface Combustion Inc
Thermatrix Inc
Turner Enviro Logic Inc
UPE Universal Process
Equipment Inc
US Filter/Zimpro

Wolverine (Massachusetts) Corp
SEE AD ON PAGE 80, 156

Indoor Air Quality

AIM Safety USA Inc
APEX Environmental
Services Inc
ATC Associates Inc
Aires Consulting Group Inc
BEM Systems Inc
Boelter & Yates Inc
Drugin Corp
ERD Environmental Inc



ENTECH
INSTRUMENTS, INC.
800-555-8034

Entech Instruments Inc
Environmental Solutions Inc
Environmental Technologies Inc
Environmental Waste Management
Associates LLC
Evans & Mitchell Inc/
The Safety Advisors
Forensic Analytical



800-321-0322

Foxboro Environmental
GO Mavs



888-777-GLET

**Goal Line Environmental
Technologies**

SEE AD ON PAGE 76, 130
Graseby Andersen Inc
SEE AD ON PAGE 69, 128

HML Inc dba Hoosier
Microbiological Laboratory
Health & Hygiene/ELB
Kanomax USA Inc
Midac Corp
Midwest Center for Occupational
Health & Safety
Mystic Air Quality Consultants Inc
Network Environmental
Systems Inc
Occusafe Inc
Optimal Technologies Inc
Precision Analysis Inc
R B Consulting Services
Ronald L Beethe, CIH
Safety Management
Resources Corp
Slosky & Co Inc
TRC
Visual Light
Walsh Environmental Scientist &
Engineers Inc
Wonder Makers Inc
Zelon Analytical
Zellweger Analytics
Zneotronics/Zsolomat

Industrial Hygiene

APEX Environmental Services Inc
ATC Associates Inc
Acculab Environmental Services Inc
Aires Consulting Group Inc
Ashland Chemical Co
August Mack Environmental Inc
B A Liesch Associates Inc
BEM Systems Inc
Belting Consultants



800.663.4977

Bios International Corp
Boelter & Yates Inc
Buchart-Horn Inc
Dewberry & Davis



800-555-8034

Entech Instruments Inc
Enviro Supply & Service Inc
EnviroNet LLC
Environmental Dimensions Inc
Environmental
Monitoring Systems
Environmental Supply Co Inc
Environmental Technologies Inc
Environmental Waste Management
Associates LLC
Environmental, Health & Safety
Search Associates

Essential Technologies Inc
SEE AD ON PAGE 52, 101

Evans & Mitchell Inc/
The Safety Advisors
Forensic Analytical
GO Mavs

Golder Associates Inc
SEE AD ON PAGE 27, 105

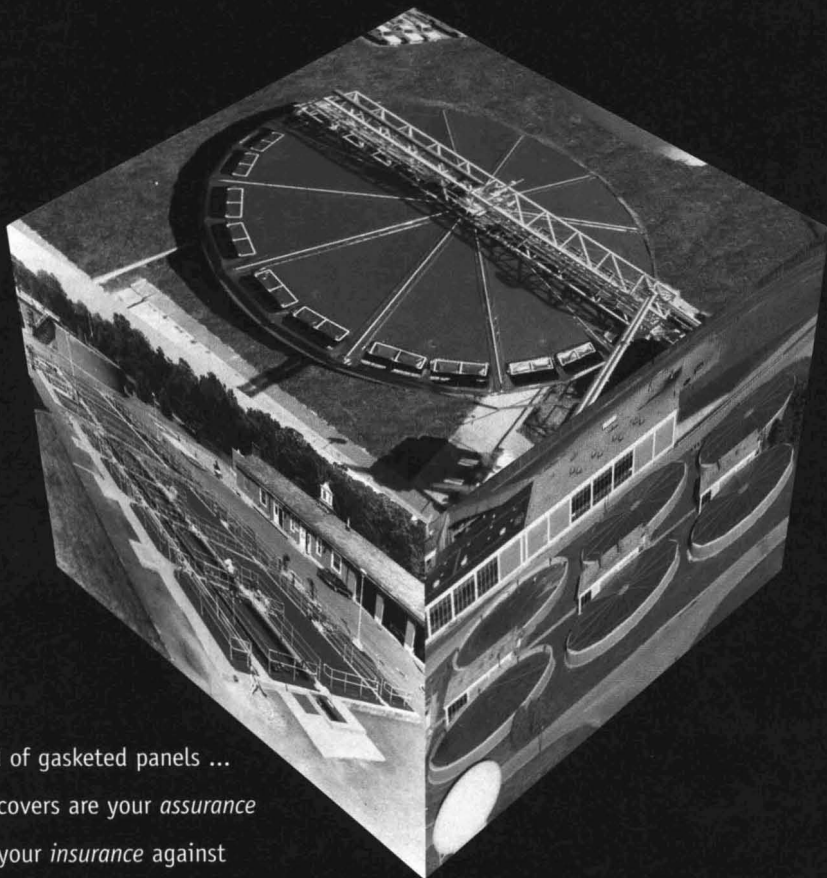
Green Tek Inc
Health & Hygiene/ELB
Hixson A/E Inc
Jacobs Environmental Inc
Kanomax USA Inc
Knorr Associates
Lancaster Laboratories
Midac Corp
Miguel A Antonetti & Associates
Mountain Valley Ventures Inc
Mystic Air Quality Consultants Inc
Network Environmental
Systems Inc



®

The Ultimate in ODOR Containment

The Structural-Fabric Cover



With heat-sealed seams instead of gasketed panels ...
VAPOR GUARD® structural-fabric covers are your *assurance*
of total odor containment and your *insurance* against
neighbors' complaints.

And with the added benefits of:

- Full Weir Access for Operation and Maintenance
- Large Access Doors for Pumps & Other Equipment
- Integrated Walkways for Full Tank Access
- Large Modular Panels for Easy Removal
During Tank Maintenance
- Low Profile for Minimum Emission Equipment Costs

VAPOR GUARD® is truly: The Ultimate in ODOR Containment



ILC DOVER INC

PROTECTING MAN & HIS ENVIRONMENT

1-800-631-9567

FREDERICA, DE • (302)335-1320 FAX
<http://www.ilcdover.com>

patent pending

Circle 130 on card.

Take It On The Road. The Portable Solution.

NEW!
DryCal DC-Lite Primary Flow Calibrator

Flow ranges:
Std: 10 cc to 12 Lpm
Low: 2 to 500 cc/min.
High: 20 cc to 20 Lpm

It's fast, yet easy to handle, with 7-years of road testing. The New DryCal DC-Lite.

Call today to get started!

BIOS INTERNATIONAL

230 West Parkway, Unit 1, Pompton Plains, NJ 07444
Phone: 973-839-6960 Toll Free: 800-663-4977
e-mail: sales@biosint.com

Industrial Hygiene

Occufase Inc
Optimal Technologies Inc
Pacific Environmental Services Inc
Precision Analysis Inc
Quantum Compliance Systems Inc
SEE AD ON PAGE 13, 131

Ronald L Beethe, CIH
SKC Inc
SSOE Inc
Safety Management Resources Corp
Savant Enterprises LLC
Slosky & Co Inc
TRC
Tetra Tech NUS
Thermo Environmental Instruments
SEE AD ON PAGE 43, 113

Versar Inc
Wonder Makers Inc
Zefon Analytical

Instrument Accessories

Cole-Parmer Instrument Co
Midwest Center for Occupational Health & Safety
Newport Electronics Inc
Omega Engineering Inc
SEE AD ON PAGE 2, 133
Omegadyne Inc
Scantek Inc
Thel-Mar Co
UVP Inc
Varian Analytical Instruments

Instrument Rental

ASC Professionals
Controlotron
Enviro Supply & Service Inc
Global Water
Keck Instruments Inc
OI Analytical
SRI Instruments
Scantek Inc

Insulation, Thermal

Albany Intl High
Performance Materials
Hi Temp Technology Corp
SGL Carbon Composites Inc-HITCO

Insurance

American Safety Insurance Group
SEE AD ON PAGE 62, 134

BISA

800-346-1031

Bonding & Insurance Specialists Inc
CNA/Schinnerer

SEE AD ON PAGE 73, 140

DPIC Companies Inc
ECS Inc
Environmental & Commercial Insurance
Intercoop Inc
O Financial Group
Van Oppen & Co Insurance Services Inc
Victor O Schinnerer & Co Inc

Z

800-382-2150

ZURICH

Zurich-American Insurance Group

Intake Screens

US Filter/Envirex

Intercoms

Setcom Corp

Ion Exchange

Automation Products Inc
J T Baker - Div of Mallinckrodt
Baker Inc
ResinTech Inc
Sybron Chemicals Inc
Touhill Technology Management Corp
US Filter Recovery Services
Unipure Environmental
United States Filter Corp

Visual Light

ISO 14000

Registration/Training
SGS International Certification Services Inc
SEE AD ON PAGE 35, 121

Labeling Equipment

Occupational Training & Supply Inc
Quantum Compliance Systems Inc
SEE AD ON PAGE 13, 131

Laboratory Equipment/Supplies

Air Products & Chemicals Inc
Associated Design & Manufacturing Co
Automation Products Inc
BOC Gases
Barnstead/Thermolyne

BIOS
INTERNATIONAL
800.663.4977

Bios International Corp
Brinkmann Instruments Inc
Brooks Rand Ltd
Cole-Parmer Instrument Co
Control Co
Dynalene Heat Transfer Fluids
Engelhard Corp
GE Co
Genium Publishing Corp

HACH

800-227-4224

Hach Co
Jensen Inert Products
Justrite Manufacturing Co
Kappler Protective Apparel & Fabrics
Lutz Pumps Inc
Midac Corp
Monarch Instrument
Mountain Valley Ventures Inc
Nasco
Newport Electronics Inc
OI Analytical
Occupational Training & Supply Inc
Ohaus Corp
Omega Engineering Inc
SEE AD ON PAGE 2, 133

Omega-Vanzetti Inc
Orion Research Inc
Petroleum Systems Services Corp
Phipps & Bird
R T Corporation
SKS Bottle & Packaging Inc
Safetec of America Inc
Stick Shop Div of Light Fabrications Inc

Strategic Diagnostics Inc

SEE AD ON PAGE 161

Taylor Technologies Inc
Terra Universal Inc
Thermo Environmental Instruments
SEE AD ON PAGE 43, 113
Thomas Industries/Thomas Lighting
UVP Inc
Ultra Scientific
Varian Analytical Instruments
Watson-Marlow Inc
Wilkins-Anderson Co
Zefon Analytical

Laboratory Services/Testing

AQC Environmental Engineers
ATC Associates Inc
Acculab Environmental Services Inc
Adrian Brown Consultants Inc
Aires Consulting Group Inc
American Aquatic Testing Inc
American Waste Services Inc
Ashland Chemical Co
Beijing Consultants
BioRenewal Technologies Inc
Biothane Corp

Leachate Treatment

Bird Machine Co
Brooks Rand Ltd
Carter, Darnell & Grubbs
Engineers Inc
Clayton Group Services Inc
ENSR
Eckenfelder Inc
Ecology & Environment Inc
Eldredge Inc
Environmetrics Inc
Forensic Analytical
HML Inc dba Hoosier
Microbiological Laboratory
Hazen & Sawyer PC
Holzmacher, McLendon & Murrell PC
Hydrocarbon Environmental
Recovery Systems

IATL

609-231-9449

IATL-International Asbestos Testing
Laboratories
Interlek Testing Services
Environmental Laboratories
Lancaster Laboratories
Microbial Insights Inc
Midwest Research Institute
National Technical Systems
P E LaMoreaux & Associates
Precision Analysis Inc
Professional Analytical &
Consulting Services Inc
Raytheon Environmental &
Quality Programs
Ross Analytical Services Inc
SGS US Testing Co Inc
STC Remediation Inc
Solar Testing Laboratories Inc
TRC
Talem Inc
Target Environmental Services
Thielsch Engineering Inc
Toxikon Corp
Water Technology
International Corp

Lagoon Separators/Baffles

BOC Gases
Engelhard Corp
MPC Containment Systems Ltd
Slickbar Products Corp

Land Application Equipment



612-933-9006

Ag-Chem Equipment Co Inc
Brown Bear Corp
SEE AD ON PAGE 55, 149
Fergus Power Pump Inc
LWT Inc

Land Application Systems



612-933-9006

Ag-Chem Equipment Co Inc
Bio Gro Div/Wheelabrator Water
Technologies Inc
G B Willson Associates Inc
Godwin Pumps of America Inc
LWT Inc
Whiteford Environmental Services

Landfills

American Waste Services Inc
B A Liesch Associates Inc
Brown, Vence & Associates Inc
Central Wisconsin Engineers &
Architects Inc
Conti Environmental Inc
HDR Engineering Inc
Harding Lawson Associates
Louis R Hovater
Consulting Engineer

Nielsons Inc
Patrick Engineering Inc
Rust Environment
& Infrastructure
SEE AD ON PAGE 3, 115
Tribble & Richardson

Landfill Equipment

AMS Inc
Advanced Environmental
Systems Inc
Aeromix Systems Inc
Air Resource Specialists Inc
Akzo Nobel Geosynthetics
Ameron International Fiberglass
Pipe Group
Ametek-Regenerative
Blower Group

AMETEK

ROTORON TECHNICAL MOTOR DIVISION

914-246-3711

Ametek-Rotoron Biofiltration
Clean Environment Equipment
John Zink Co
King Buck Technology
Koester Environmental
Services Inc
Malcom Co-Leister
Hot Air Systems
McPhee Environmental Supply
Misonix Inc
SEE AD ON PAGE 18, 143

QED

800-624-2026

QED Environmental Systems Inc
Reef Industries Inc
Rusmar Inc
Schumacher Filters America Inc
Thel-Mar Co

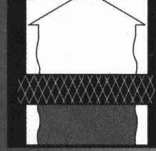
Landfill Services

AIL Systems Inc
Beling Consultants
Brown & Caldwell
Brown, Vence & Associates Inc
Burns & McDonnell Waste
Consultants Inc
Carter, Darnell & Grubbs
Engineers Inc
Compliance Solutions Occupational
Trainers Inc
Crouse Enterprises Inc
Eckenfelder Inc
G B Willson Associates Inc
HPC Inc
HPG International Inc
Haley & Aldrich Inc
Handex Environmental Midwest
International Technology Corp
Resource Management Group Inc
Sevenson Environmental
Services Inc
Toxikon Corp
US Filter/Lo-Cat
Versar Inc
Western Water Consultants Inc

Leachate Treatment

Aeromix Systems Inc
Automation Products Inc
Babcock Water
Engineering LP
SEE AD ON PAGE 47, 154
Biothane Corp
Brown, Vence & Associates Inc
Buchart-Horn Inc
Chapman Inc
Chlorinators Inc
Clean Environment Equipment
Dragun Corp
Ejector Systems Inc
Godwin Pumps of America Inc
In-Situ Oxidative
Technologies Inc
Koester Environmental
Services Inc
Onron Enterprises
PCI-Wedeco Environmental
Technologies Inc

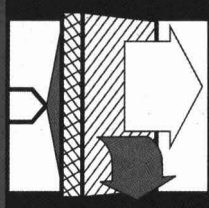
MYSTAIRE® SCRUBBERS



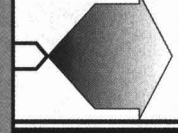
ACTIVATED CARBON



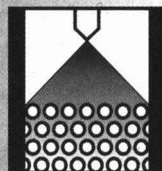
VENTURI



WATERWEB® MESH



SONIMIST® CHAMBER



PACKED BED

The Latest
Technology.

The Best Products.
The Newest Answers.

MYSTAIRE® Scrubber Technology

- **WATERWEB® MESH** – Proven, proprietary compressed mesh for highly turbulent, efficient scrubbing pathway
- **EDUCTOR VENTURI** – Turbulent throat area facilitates contaminant absorption into scrubbing liquid and removal of particulates
- **PACKED BED** – High efficiency tower packings to abate gaseous contaminants
- **SONIMIST® SPRAY CHAMBER** – Ultrasonic mist entrains particulates or hydrolyzes vapors and cools gas streams
- **ACTIVATED CARBON** – Standard and impregnated to adsorb VOC's and odorous gases

Engineering Assistance

Our experienced engineering staff thoroughly analyzes every scrubbing situation and recommends the best scrubbing system, or best combination of scrubbing methods, to solve the contamination problem. Call today for engineering assistance or more information.

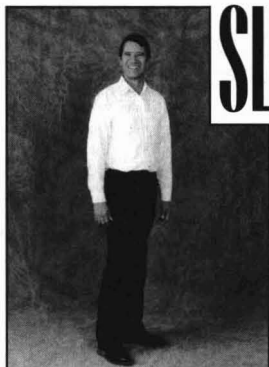


MISONIX INCORPORATED

"For over 35 years you've known us as Heat Systems"
1938 New Highway, Farmingdale, New York 11735
FAX: 516-694-9412 • Telex: 825339
For application assistance and information call:
800-645-9846 • In NY 516-694-9555

THESE TWO JUST PAID TO REMOVE THEIR

SLUDGE



FRANK CALLED US



ERIC DIDN'T

Managers like Frank have saved 30-70% on their treatment plant and lagoon sludge removal costs by using our probiotic technology.

DON'T LOSE YOUR SHIRT!

For a free brochure, call 1-800-961-1220

PROBIOTIC[®]
SOLUTIONS

INNOVATIVE SOLUTIONS FOR MEETING THE WORLD'S WASTEWATER CHALLENGES

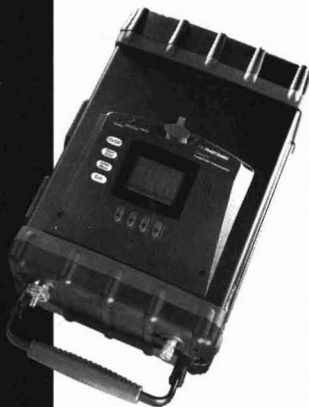
Circle 133 on card.

Total Confidence in VOC Monitoring

Is the tool you are using for VOC monitoring free from response to interferences? In all of your applications? The PE Photovac Voyager Portable Gas Chromatograph separates interferences from the compound(s) you need to measure. And because the Voyager is lightweight (under 15 lb./7kg), and is intrinsically safe, you can take it, easily, to your samples, no matter where you need to go. Total Confidence. Easy. PE Photovac. Contact us for details. Today.

Take it. Easy.

PE PHOTOVAC



761 Main Ave. Norwalk, CT 06859
Tel: 203-761-5330 • Fax 203-761-2677
pvcmtg@perkin-elmer.com

Leachate Treatment

Phyto Works Inc
Sevenson Environmental Services Inc
US Filter Recovery Services
US Filter/Davco
US Filter/HPD
US Filter/Zimpro
Unipure Environmental
United States Filter Corp
Water Remediation Technologies
Zorbit Technologies Inc

Lead Paint Abatement

APEX Environmental Services Inc
Aires Consulting Group Inc
Carboline Co
Dewberry & Davis
Environmental Monitoring Systems

IATL
609-231-9449

IATL-International Asbestos Testing Laboratories
Mystic Air Quality Consultants Inc
Neotek Health Technologies Inc
Occusafe Inc
Pentek Inc
SBP Technologies Inc
University of Texas at Arlington/Environmental Research Versar Inc

Lead Paint Analysis

IATL
609-231-9449

IATL-International Asbestos Testing Laboratories

Leak Detectors

AIM Safety USA Inc
Air Products & Chemicals Inc
Arizona Instrument Corp
Auburn International Inc
Bacharach Inc
CEA Instruments Inc
Controlotron
EFA Technologies Inc
Environmental Fuel Systems
Fluid Components Intl
Fluid Controls Inc

FOXBORO[®]
800-321-0322

Foxboro International
Furness Controls Inc
Gas Tech Inc
Gems Sensors Inc
General Monitors
Grace Industries Inc
Incon Inc
Industrial Scientific Corp
J U M of North America Inc
K & M Environmental Inc
MEGA Systems & Chemicals
Metrotech Corp
Sierra Monitor Corp
Thermo Environmental Instruments
SEE AD ON PAGE 43, 113
Tracer Research Corp
SEE AD ON PAGE 68, 118
Tracker Technologies
US Industrial Products Co
Varian Analytical Instruments
Veeder-Root Co

Legal Information/Documentation

West Group
SEE AD ON PAGE 4, 111

Level

Instrumentation

Automation Products Inc
Computer Instruments Corp
Consilium Metritec Inc

Danfoss-Instrumark
Drexelbrook Engineering Co
Dwyer Instruments Inc
EPIC Inc
Fluid Components Intl
Gems Sensors Inc
Global Water
Harwil Corp
Incon Inc
Interson Corp
Isco Inc
MEGA Systems & Chemicals
Milltronics Inc
SEE AD ON PAGE 66, 124
Omega Engineering Inc
SEE AD ON PAGE 2, 133
Omegadyne Inc
Peek Measurement A
Thermo Electron Co
Stevens Water
Monitoring Systems
Trans Environmental Systems Inc
SEE AD ON PAGE 81, 157

Level, Sight Gauges

Gems Sensors Inc
Incon Inc
Omega Engineering Inc
SEE AD ON PAGE 2, 133
Plast-O-Matic Valves Inc
Thel-Mar Co

Lift Stations

GR
PUMPS
419-755-1011

Gorman-Rupp Co
Incon Corp
US Filter/EMU Products

Lime Slakers

Chemical Lime Co
US Filter/Wallace & Tiernan
US Filter/Zimpro

Liners

Basic Concepts Inc
Brown, Vence & Associates Inc
CDF Corp
GSE Lining Technology Inc
General Container Corp

HPG
800-457-6634

HPG International Inc
ITW Devcon Engineered Coatings
Jensen Int'l Products
Louis R Hovatter
Consulting Engineer
MPC Containment Systems Ltd
Mid America Railway Supply Inc
Morton International
PacTec Inc
Packaging Research & Design
PolySpec Corp
Reef Industries Inc

Liquid Extractors

Associated Design & Manufacturing Co
Blackhawk Environmental
CINC
Jones Chromatography Inc
OI Analytical

Locators, Pipe/Valve/Cable

Geophysical Survey Systems Inc
Metrotech Corp
Reef Industries Inc

Management Services

Academy of Certified Hazardous Materials Managers
Behavioral Science Technology Inc
Carson Geologic & Environmental Inc
Enercon Services Inc
EnviroNet LLC

Mobile Labs

Environmental Liability
Management Inc
Environmental Resources
Center Inc
Environmental Software
Resource Guide
Environmental Systems &
Technologies Inc
Evans & Mitchell Inc/
The Safety Advisors
Excel Partnership Inc

SEE AD ON PAGE 36, 114

Fergus Power Pump Inc
Forrester Group Inc
Geo-Environmental Solutions
Hands & Associates Inc
Health & Hygiene/ELB
J L & Associates
Marketing Counselors
International Inc



Morrison Knudsen Corp
Pantera Environmental
Consulting/Real Estate Recovery
Patrick Engineering Inc
Quantum Compliance Systems Inc

SEE AD ON PAGE 13, 131

Resource Management Group Inc
Ronald L Beebe, CIH
Roy F Weston Inc
SEMCOR
Savant Enterprises LLC
Touhill Technology Management Corp
Veeder-Root Co
WES Corp
Wixel

Manometers

Dwyer Instruments Inc
Environmental Monitoring Systems
Omega Engineering Inc
SEE AD ON PAGE 2, 133
Omegadyne Inc

Medical Waste Disposal

BioSterile Technology Inc
ERS Services Inc
Marketing Counselors
International Inc
Medical Coaches Inc
Safelec of America Inc
West Group

SEE AD ON PAGE 4, 111

Mercury Instruments

Arizona Instrument Corp
Brooks Rand Ltd
Mercury Technologies Intl LP

Mercury Spill Cleanup Products

Advanced Environmental
Recycling Co LLC
J T Baker, A Div of Mallinckrodt
Baker Inc
Mercury Technologies Intl LP

Metal Recovery Systems

Polylox Separation
Technologies Inc
Roberts & Schaefer Co
U F Strainrite

SEE AD ON PAGE 10, 116

US Filter/HPD
Unipure Environmental
United States Filter Corp

Meteorological Services

BEE-Line Software
Climatronics Corp
Davis Instruments
EPIC Inc
J L & Associates

Met One Instruments Inc
SEE AD ON PAGE 87, 162

Omega Engineering Inc
SEE AD ON PAGE 2, 133

Omegadyne Inc
Optimal Technologies Inc
Scientific Sales Inc

Tetra Tech NUS
Trinity Consultants Inc
Undata America
W Gale Biggs Associates

Meters

Alicat Scientific Inc
BOC Gases
Badger Meter Inc
Cole-Palmer Instrument Co
Controlotron
EMCO Flowmeters
Engineered Systems & Design
Hersey Measurement Co
Horiba Instruments Inc
Newport Electronics Inc
Omega Engineering Inc
SEE AD ON PAGE 2, 133

Scantek Inc
Sparling Instruments Inc
Taylor Technologies Inc
Water Specialties

Microscopes

Environmental Monitoring Systems
Terra Universal Inc

Mist

Eliminators/Collectors

Advanced Environmental
Systems Inc
Aerology
Airlow Systems Inc



Airetech Inc
Amistco Separation Products
Andersen 2000 Inc
Clean Gas Systems Inc
Hillard Corp



Monsanto Enviro-Chem Systems
Pneumafil Corp
Thiel Air Technologies

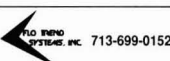
Mixed Oxidant Generators



Miox Corp

Mixers

ABS Pumps Inc
Aeromix Systems Inc
Associated Design &
Manufacturing Co
Baker Tanks Inc
Barnstead/Thermolyne
CINC
Capital Controls Co Inc
Chem-tainer Industries



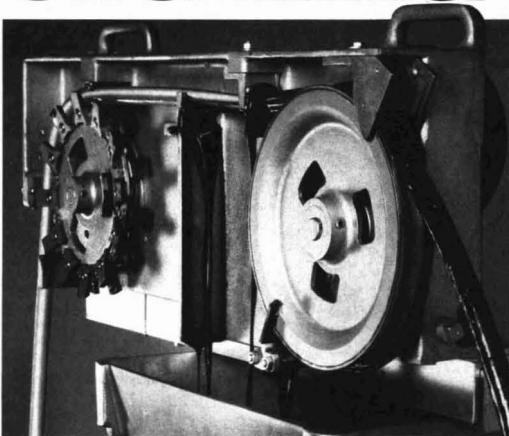
Flo Trend Systems Inc
Franklin Miller Inc
Liquid Dynamics Corp
Maxon Industries Inc
Neptune Mixer Co
PRO Scientific Inc
Phipps & Bird
Sam Dick Industries
US Filter/EMU Products
US Filter/Jet Tech

Mobile Labs



CAE Instrument Rental

Oil Skimmer



Simple, Efficient Waste Oil Recovery

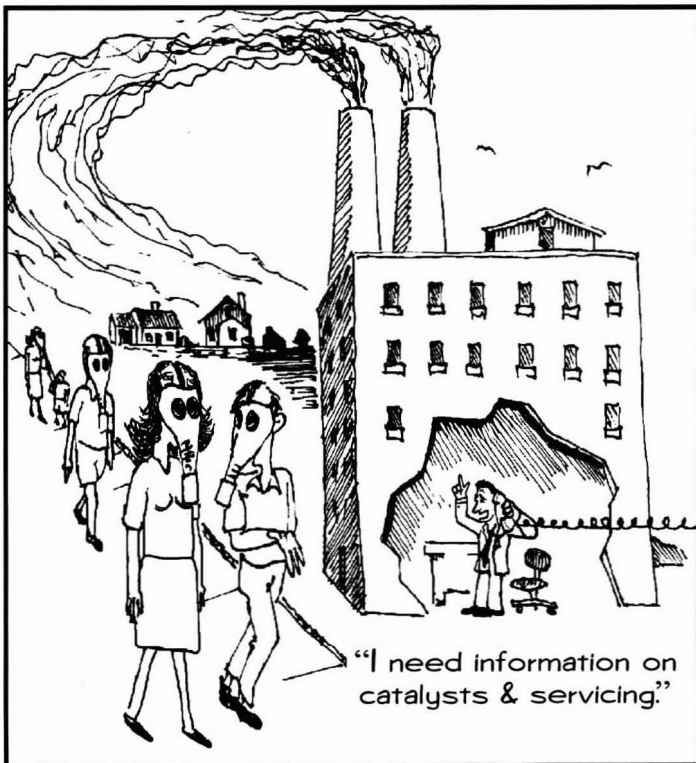
Oil Skimmers oil recovery systems remove waste oil from water and pipe it into a drum. The systems work in any industry where floating oil is a problem. Uncomplicated, dependable, maintenance-free, Oil Skimmers systems are engineered to operate continually and unsupervised, 365 days a year.

If floating oil is causing you a problem, call Oil Skimmers, Inc. collect at **216/237-4600**. Find out how simple, efficient and profitable waste oil recovery can be.

OILSKIMMERS, INC.

P.O. Box 33092 • Cleveland, Ohio 44133 U.S.A.

Circle 136 on card.



Restek's SilcoCanTM Canister

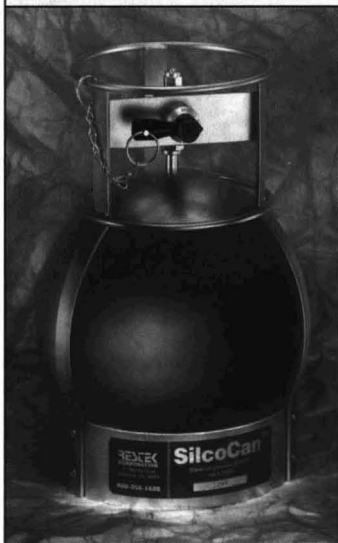
Call our air specialists for
product information, price,
and availability.

<http://www.restekcorp.com>

RESTEK (800) 356-1688
CORPORATION



ISO 9001



Mobile Labs

Lancaster Laboratories
Medical Coaches Inc
Target Environmental Services

Moisture Instrumentation

Arizona Instrument Corp
EPIC Inc
Environmental Supply Co Inc
Ohaus Corp
Panametrics Inc
Rotronic Instrument Corp
Vaisala Inc

Monitoring Systems, Air

AIL Systems Inc
AIM Safety USA Inc
ASOMA-WTC Engineering Inc
Advanced Pollution
Instrumentation Inc
Air Resource Specialists Inc
Apex Instruments Inc
Auburn International Inc
Baldwin Environmental Inc
Biosystems Inc
Brooks Rand Ltd
Contec Systems Industrial Corp
Control Instruments Corp
Dancer Communications Inc
Detector Electronics Corp
Dyna-Fid Inc
EIT
ERD Environmental Inc
Environmental Supply Co Inc

Essential Technologies Inc
SEE AD ON PAGE 52, 101
Fluid Components Intl

FOXBORO
800-321-0322

Foxboro Environmental
Gas Tech Inc
Graseby Andersen Inc
SEE AD ON PAGE 69, 128
Green Tek Inc
J U M of North America Inc
K & M Environmental Inc
KVB
Kanomax USA Inc
MIE Inc (Monitoring Instruments
for the Environment)
Mil-Ram Technology Inc
Monarch Instrument
OI Analytical
Omega Engineering Inc
SEE AD ON PAGE 2, 133

Omegadyne Inc
PCI-Wedeco Environmental
Technologies Inc
Pace Environmental
Products Inc
SKC Inc
Scientific Sales Inc
Terra Universal Inc
Testo Inc
SEE AD ON PAGE 85, 154
US Industrial Products Co
Vaisala Inc
Zellweger Analytics Inc

Monitoring Systems, Hazardous Material

Automation Products Inc
Dancer Communications Inc
Essential Technologies Inc
SEE AD ON PAGE 52, 101

FOXBORO
800-321-0322

Foxboro Environmental
Mil-Ram Technology Inc
Monarch Instrument
RACO Engineering
& Manufacturing
Strategic Diagnostics Inc
SEE AD ON PAGE 161

Monitoring Systems, Water

ASOMA-WTC Engineering Inc
Anatel Corp
Athena Controls Inc
BioRenewal Technologies Inc
Blackhawk Environmental
Brant Luebbe Inc
Chemtrac Systems Inc
Clean Environment Equipment
Contec Systems Industrial Corp
Controlotron
Dancer Communications Inc
Global Water
H F Scientific Inc
Hydrolab Corp
SEE AD ON PAGE 64, 126

Iso Inc
Keck Instruments Inc
Lakewood Products/Osmotics
Midac Corp
Mil-Ram Technology Inc
Monarch Instrument
Myron L Co
Newport Electronics Inc
Omega Engineering Inc
SEE AD ON PAGE 2, 133
Omegadyne Inc
Orion Research Inc
RACO Engineering & Manufacturing
Rocky Mountain Consultants Inc
Stevens Water Monitoring Systems
Thei-Mar Co

TURNER DESIGNS
On Water Monitors
408-749-0994

Turner Designs
US Filter/Stranco
Undata America
Wilks Enterprise Inc

Motor Controllers

JDS Products Inc
K C S Environmental Corp
M J S & Associates

Motors

B I Myers Bros Inc
GE Co
TECO-Westinghouse Motor Co
Weil Pump Co Inc

Nitrogen Oxide Detectors

Advanced Pollution Instrumentation Inc
California Analytical Instruments
Cherokee Instruments Inc
Control Instruments Corp

Datatest
215-943-0668

DataTest Inc
Detector Electronics Corp
EIT
Energy Efficiency Systems Inc
SEE AD ON PAGE 59, 157
Enmet Corp

FOXBORO
800-321-0322

Foxboro Environmental
Gas Tech Inc
Mil-Ram Technology Inc
Sierra Monitor Corp

Noise Deadening Supplies

Albany Intl High Performance
Materials
Dustvent Inc
Implant Enviro-Systems 2000 Inc
Setcom Corp

Noise/Sound Instruments

ASC Professionals
Implant Enviro-Systems 2000 Inc

Kanomax USA Inc
Metrosonics Inc
Premier Safety & Service Inc
Scantek Inc

Non-Hazardous Oil/Water/Solids Reclamation Facilities

Eldredge
610-486-4748

Eldredge Inc

Nozzles

Advanced Dust Solutions Inc
Clean Gas Systems Inc
Enviro Quip Intl Inc
Midland Metal Mfg Co
Mincy Inc
Odor Control Co Inc
Technical Products & Services Inc

Nuclear Waste Handling Equipment

Advanced Concepts & Design Inc
Automation Products Inc
Basic Concepts Inc
Koester Environmental Services Inc
Polylinx Separation
Technologies Inc
Reef Industries Inc
Safety Storage Inc
Thermatrix Inc
ToxGon Corp
U F Strainrite
SEE AD ON PAGE 10, 116
Waste Control Systems Inc

Oceanographic Equipment

G O Environmental Inc

Odor Control Equipment

ABB Air Preheater Inc
SEE AD ON PAGE 16, 136
Advanced Environmental
Systems Inc
Adwest Technologies Inc
SEE AD ON PAGE 28, 153
Airlift Systems Inc
Amtec Inc
Andersen 2000 Inc
Anguil Environmental Systems Inc
Barnebey & Sutcliffe Corp

BASYS
800-254-5525

Basys Technologies
SEE AD ON PAGE 85, 157

Beco Engineering Co
Bio-Reaction Industries Inc
Calgon Carbon Corp
Carbtrol Corp
Chemical Lime Co
Clean Gas Systems Inc
D R Cordell & Associates Inc
General Carbon Corp
Glenro Inc
Gregory Leonards-Environmental
Odor Consultant
Hobas Pipe USA Inc
Huntington Environmental Systems
ILC Dover Inc
SEE AD ON PAGE 123, 141

John Zink Co
Johnson Matthey Environmental
Products
Mazzei Injector Corp
SEE AD ON PAGE 87, 160
Misonix Inc
SEE AD ON PAGE 18, 143

Neucon
314-275-5907

Monsanto Enviro-Chem Systems
Munters Corporation-Zeol Division

NuTech
environmental
corp.
800-321-8824

NuTech Environmental Corp
Odor Control Co Inc
Odor Management Inc
Odor Management Technologies
Orec Ozonation Systems/Osmotics
Process Technologies Inc
REECO
RaySolv Inc
Ross Air Systems
Rusmar Inc
Temcor

TRINITY AIR
800-299-4824

Trinity Air Technologies
Turner Enviro Logic Inc
US Filter/Lo-Cat

U.S. FILTER
RJ ENVIRONMENTAL
619-455-7688

US Filter/RJ Environmental
Visual Light
Warminster Fiberglass Co
Waste-Tech Inc
Westport Environmental Systems

**Odor Control
Treatment**

Betz Dearborn
Bio-Systems Corp
Brown, Vence & Associates Inc
Clean Gas Systems Inc
Gregory Leonardos-Environmental
Odor Consultant
Hydrocarbon Environmental
Recovery Systems
Lemna USA Inc
Mazzei Injector Corp
SEE AD ON PAGE 87, 160

NuTech
environmental
corp.
800-321-8824

NuTech Environmental Corp
Odor Control Co Inc
Odor Management Inc
Odor Management Technologies
Orec Ozonation Systems/Osmotics
PBR Industries
PCI-Wedeco Environmental
Technologies Inc

PREMIER
SERVICES CORPORATION
800-227-4287

Premier Services Corp
Probiotic Solutions
SEE AD ON PAGE 63, 144
Process Technologies Inc
Rusmar Inc
Solvay Interox Inc
US Filter/RJ Environmental

Oil Skimmers

ABANAKI
HTTP://WWW.OILSKIMMERS.COM
800-358-7546

Abanaki Corp/Oil Skimmer Div
SEE AD ON PAGE 46, 152
Clean Environment Equipment
Ejector Systems Inc
EnviroLine Inc
Foss Environmental Services
Gerguson DPI Inc
Hudson Industries
Jeffrey-Tropodyne
Keck Instruments Inc
Kepner Plastics Fabricators Inc
Megator Corp
New Pig Corp
Oil Skimmers Inc
SEE AD ON PAGE 55, 145

VQED
800-624-2026

QED Environmental Systems Inc
Slickbar Products Corp

**Oil Spill Control
Equipment/Services**
Abanaki Corp/Oil Skimmer Div
SEE AD ON PAGE 46, 152

Aidronack Environmental
Associates Inc
Andax Environmental Corp
Arbitt Glove & Safety Products
Basic Concepts Inc
Bayou City Pump Works Inc
CSR Hydro Conduit
Dialogic Communications Corp
Direct Safety Co Inc
Drexelbrook Engineering Co
Ecosorb International Inc

Eldredge
610-438-4748

Eldredge Inc
Foss Environmental Services
Geotech Environmental
Equipment Inc
Hudson Industries
Hydrocarbon Environmental
Recovery Systems
Industrial Marine Services48 Inc
Kepner Plastics Fabricators Inc
MPC Environmental
McPhee Environmental Supply
New Pig Corp
Oil Skimmers Inc
SEE AD ON PAGE 55, 145
PCCI Inc
Petro-Green Inc
Slickbar Products Corp

SPP
SORBENT PRODUCTS CO., INC.
800-333-0080

Sorbent Products Co Inc
Stonehill Environmental Inc
Trans Environmental Systems Inc
SEE AD ON PAGE 81, 157
Tri-State Environmental Products &
Equipment
Vortech Inc
SEE AD ON PAGE 47, 158
Zorbit Technologies Inc

Oil/Water Monitors

Automation Products Inc
Brant Luebbe Inc
Chemtrac Systems Inc
Ejector Systems Inc
HNU Systems Inc
SEE AD ON PAGE 81, 162
Horiba Instruments Inc
Hudson Industries
Ionics Inc/Instrument Div
MMC International Corp

TURNER DESIGNS
Oil In Water Monitors
408-749-0994

Turner Designs
Veeder-Root Co
Wilks Enterprise Inc
World Water Systems Inc

Oil/Water Separation
Abanaki Corp/Oil Skimmer Div
SEE AD ON PAGE 46, 152

Alfa Laval Sharples
Amistco Separation Products
Aero Power Utilized Fueler
Automation Products Inc
Betz Dearborn
Bird Machine Co
Bisco Environmental
CSR Hydro Conduit
Carbrol Corp
Clean Gas Systems Inc

Dustvent Inc
Dynatec Systems Inc
EEC USA Inc
EnviroLine Inc
Groundwater Recovery
Systems Inc
Great Lakes Environmental Inc
SEE AD ON PAGE 84, 106
Highland Tank & Manufacturing Co
Hilliard Corp
Hudson Industries
Hydro Quip Inc
Jeffrey-Tropodyne
Kepner Plastics Fabricators Inc
Landa Water Cleaning Systems
McPhee Environmental Supply
Megator Corp
Oil Skimmers Inc
SEE AD ON PAGE 55, 145

Onron Enterprises
Pall Corporation
RGF Environmental Systems Inc
S C Altman & Associates
SAMSCO Inc
Safety & Environmental
Resources Inc
Schumacher Filters America Inc
Sorbent Products Co Inc
Taylor Environmental Products Inc
SEE AD ON PAGE 60, 159
Veeder-Root Co

Vortech Inc
SEE AD ON PAGE 47, 158

Water Remediation Technologies
Winston Manufacturing Corp
World Water Systems Inc

Opacity
Anguil Environmental Systems Inc

Datatest
215-943-0668

DataTest Inc

Energy Efficiency Systems Inc
SEE AD ON PAGE 59, 157
KVB
Land Combustion
SEE AD ON PAGE 50, 166
Pace Environmental Products Inc
Resochem Corp
Thermo Environmental
Instruments
SEE AD ON PAGE 43, 113
Trinity Consultants Inc

**Operation &
Maintenance Services**
Abbottfield Industrial Training Inc
Brown, Vence & Associates Inc
Chapman Inc
ERS Services Inc
Eco Services Inc
GeoCore Services Inc
Hyde Consultants Inc
Industrial Marine Service Inc
Jones & Henry Engineers Ltd
Killam Associates Consulting
Engineers
Roy F Weston Inc
Sevenson Environmental
Services Inc
ToxGon Corp
Zorbit Technologies Inc

ORP Instrumentation
Cole-Parmer Instrument Co
Engineered Systems
& Design
Hanna Instruments
Innovative Sensors Inc
Myron L Co
Newport Electronics Inc
Omega Engineering Inc
SEE AD ON PAGE 2, 133
Orion Research Inc
Rosemount Analytical Inc/
Unilox Division
SEE AD ON PAGE 72, 148

Oxidizers

Advanced Environmental Systems Inc
Adwest Technologies Inc
SEE AD ON PAGE 28, 153
Anguil Environmental
Systems Inc
Degussa Corp

DÜRR
813-207-8500

Dürr Environmental Inc
Eco Services Inc
Glenro Inc
Global Technologies

GOAL LINE
ENVIRONMENTAL TECHNOLOGIES
888-777-GLET

**Goal Line Environmental
Technologies**
SEE AD ON PAGE 76, 130

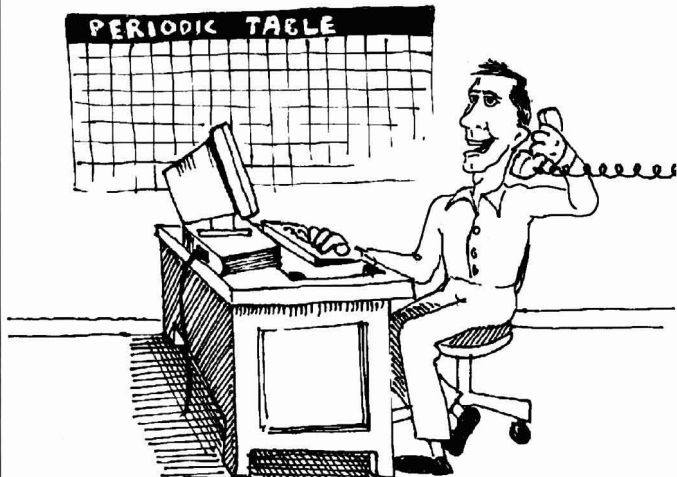
Hi Temp Technology Corp
Huntington Environmental Systems
In-Situ Oxidative
Technologies Inc
John Zink Co
Johnson Matthey
Environmental Products
K C S Environmental Corp
King Buck Technology
Koester Environmental
Services Inc
McGill Airclean Corp

e 314-275-5907
Monsanto

Monsanto Enviro-Chem Systems
Munters Corporation-Zeol Division
Ozonia North America Inc
Prototech Co
SEE AD ON PAGE 29, 31, 145, 147



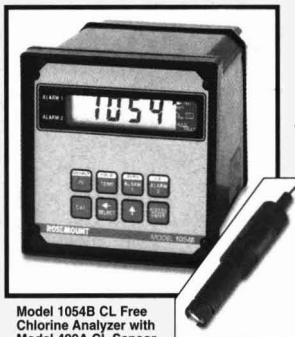
Prototech
A subsidiary of United Catalysts Inc.
(781) 444-5188 Fax: (781) 444-0130



"You called the right place.
We can take care of that!"

Clean Deal

No Hassle Chlorine Measurement



Model 1054B CL Free Chlorine Analyzer with Model 499A CL Sensor

Sampling Systems are expensive and break down.

Replacing reagents costs time and money. You don't want to deal with them and we don't think you should. Rosemount Analytical, Uniloc Division offers an inexpensive on-line analyzer for automatic measurement and control of free chlorine. This means you can get a continuous record of your chlorine residual and control disinfection both easily and economically.

The **Model 1054B CL** Analyzer has been extensively field tested in applications just like the ones you have. It uses an easy to maintain, Model 499A amperometric sensor that installs directly in a process line or in a low-flow assembly. Startup can be as simple as connecting the sensor cable and entering the numerical value on the sensor tag into the analyzer. Later calibration using DPD or other titrations are also supported.

The **Model 1054B CL** offers many features:

- Automatic temperature compensation
- Automatic pH compensation
- .001 ppm resolution display and
- User selectable filtering for low noise or rapid response.

Save yourself time and money, eliminate those unnecessary reagents and get a continuous reading instead!

ROSEMOUNT ANALYTICAL FISHER-ROSEMOUNT® Managing The Process Better.®

Rosemount Analytical Inc., Uniloc Division
2400 Barranca Parkway, Irvine, CA 92606 USA
Tel: (714) 863-1181 <http://www.RAuniloc.com>

Oxidizers

REECO
RaySolv Inc
Ross Air Systems
S C Altman & Associates



Surface Combustion Inc
Thiel Air Technologies
Trewin & Smith Inc



Trinity Air Technologies
Turner Enviro Logic Inc
US Filter/Lo-Cat
Wolverine (Massachusetts) Corp
SEE AD ON PAGE 80, 156

Oxygen Detectors
Baldwin Environmental Inc
BioRenewal Technologies Inc
Biosystems Inc
California Analytical Instruments
Control Instruments Corp



DataTest Inc
Detector Electronics Corp
EIT
Gas Tech Inc
Industrial Scientific Corp
Land Combustion
SEE AD ON PAGE 50, 166

Metrosonics Inc
Mil-Ram Technology Inc
Mine Safety Appliances Co
Panametrics Inc
RAE Systems Inc
Scott Health & Safety
Sierra Monitor Corp
Zellweger Analytics
Zneotronics/Zsolomast

Ozonators
AirSep Corporation –
Industrial Div
Fuji Electric Corp of America
Orec Ozonation Systems/Osmonics
Ozonaria North America Inc
PCI-Wedeco Environmental
Technologies Inc
Progressive Equipment Corp
RGF Environmental Systems Inc
S C Altman & Associates
UVP Inc
Visual Light
Water Remediation Technologies

Ozone Detectors
Advanced Pollution
Instrumentation Inc
CEA Instruments Inc
EIT
Enmet Corp
K & M Environmental Inc
Mil-Ram Technology Inc
Orec Ozonation Systems/Osmonics
Ozonaria North America Inc
PCI-Wedeco Environmental
Technologies Inc
Response Rentals



Spectrex
Zellweger Analytics Inc

**Package Wastewater
Treatment Plants**
Babcock Water Engineering LP
SEE AD ON PAGE 47, 154

Bio Science Inc
Biothane Corp
Dynatec Systems Inc

Institute Environmental Technologies Inc
Purac Engineering
ToxGon Corp
Tristate Machinery Co
US Filter/Davco
US Filter/Zimpro
Unipure Environmental

Packing Materials
Clean Gas Systems Inc
Process Packaging & Control Inc
Specialized Cargo Handling Services
Youngstown Barrel & Drum

Particle Detectors
Chemtrac Systems Inc
DataTest Inc
Graseby Andersen Inc
SEE AD ON PAGE 69, 128
MIE Inc (Monitoring Instruments
for the Environment)
Terra Universal Inc
Thermo Environmental Instruments
SEE AD ON PAGE 43, 113

**Particle Sizing
Instruments**
Apex Instruments Inc



CAE Instrument Rental
Chemtrac Systems Inc
Cherokee Instruments Inc
Environmental Supply Co Inc
Graseby Andersen Inc
SEE AD ON PAGE 69, 128
Green Tek Inc
Horiba Instruments Inc
Kanomax USA Inc



Spectrex

**Passive Hydrocarbon
Recovery Systems**
Eldredge Inc
EnviroLine Inc
Environmental Basics Co
Groundwater Recovery Systems Inc

PCB Testing
Environmetrics Inc
Golder Associates
SEE AD ON PAGE 27, 105

HML Inc dba Hoosier
Microbiological Laboratory
Interlek Testing Services
Environmental Laboratories
Lancaster Laboratories
Midwest Research Institute
Mystic Air Quality Consultants Inc
Ross Analytical Services Inc
Strategic Diagnostics Inc
SEE AD ON PAGE 161
Talem Inc
Thielsch Engineering Inc
Toxikon Corp
Van Note-Harvey Associates PC

Permitting
Acculab Environmental Services Inc
BDM International Inc
Benchmark Environmental Corp
Brown, Vance & Associates Inc
Buchart-Horn Inc
Carson Geologic & Environmental Inc
Claymore Engineering
Commonwealth Biomonitoring
Dahl & Associates Inc



Dames & Moore Group
Dominion Environmental Consultants Inc
ERD Environmental Inc

Eco Analysis Inc
Entrix Inc
EnviroNet LLC
Environmental Consulting Ltd
Environmental Dimensions Inc
Environmental Mitigation Group
Environmental Resources Center Inc
Environmental Science Services Inc
Environmental Solutions Inc
Environmental Waste Management
Associates LLC
Gabbard Environmental Services Inc
Golder Associates Inc
SEE AD ON PAGE 27, 105

Groundwater & Environmental
Services Inc
HPC Inc
Haley & Aldrich Inc
Hands & Associates Inc
Hazen & Sawyer PC
HydroQual Inc
Innovative Consultants Inc
J L & Associates
Jacobs Environmental Inc
Lan Associates Inc
Midwest Research Institute
Miguel A Antonetti & Associates
NES Inc
Nassif Engineering & Equipment Co Inc
Omni Professional Environmental
Associates PA
Pacific Environmental Services Inc
Penn Environmental & Remediation Inc
Raytheon Environmental &
Quality Programs
Regulatory Compliance Management Inc
Resource Management Group Inc
Rosenberger, Smith & Associates Inc
Rust Engineering & Infrastructure
SEE AD ON PAGE 3, 115

SSEO Inc
STV Inc
Savant Enterprises LLC
TRC
Tribble & Richardson
Trinity Consultants Inc
UAI Group LP
Van Note-Harvey Associates PC
W Gale Biggs Associates
WCM Group Inc
WES Corp



Ward & Associates
Western Water
Consultants Inc

Pest/Weed Control
Bird B Gone Inc

pH Instrumentation
American Sigma Inc
Analytical Measurements Inc
Cole-Parmer Instrument Co
Engineered Systems & Design
George Fischer Inc



Hach Co
Hanna Instruments
Horiba Instruments Inc
Innovative Sensors Inc
Lakewood Products/Osmonics
Martin Marietta Magnesia
Specialties Inc
SEE AD ON PAGE 165

Myron L Co
Newport Electronics Inc
Omega Engineering Inc
SEE AD ON PAGE 2, 133
Orbeco Analytical Systems Inc
Onion Research Inc
Rosemount Analytical Inc/
Uniloc Division
SEE AD ON PAGE 72, 148
Telatemp Corp
Wilkins-Anderson Co

Pilot Plants

Automation Products Inc
Brown & Caldwell
Dynatec Systems Inc
Niro Inc
Philip ServicesCorp/
Industrial Services Group



Surface Combustion Inc
Touhill Technology Management Corp
US Filter/Jet Tech

Pipeline Cleaning, Repair

Industrial Marine Service Inc
Petro-Green Inc
Sorbent Products Co Inc

Piping, Dual Containment

Ameron International Fiberglass
Pipe Group
Asahi/America Inc
Fluid Controls Inc
George Fischer Inc
Interon Corp
Smith Fiberglass Products Co

Piping Equipment

Asahi/America Inc
Atlantic Screen & Mfg Inc
Baker Tanks Inc
Eslon Thermoplastics
SEE AD ON PAGE 9, 117

Flowserve Corp
Fluid Controls Inc
Godwin Pumps of America Inc
Hobas Pipe USA Inc
Rain for Rent
Vitaallic Co of America

Pollution Survey Equipment

Business & Legal Reports
Haztech Systems Inc
MIE Inc (Monitoring Instruments
for the Environment)
Rutgers University-Office of
Continuing Prof Educ
SRI Instruments

Polymer Blending/Feeding Systems

Automation Products Inc
Cytec Industries Inc
Flo Trend Systems Inc
Kem-Tron Technologies Inc
Neptune Chemical Pump Co
Tristate Machinery Co
US Filter/Stranco
US Filter/Wallace & Tieman
Water Remediation Technologies
Watson-Marlow Inc

Pressure Boosters

Air Dimensions Inc

Pressure/Vacuum Instrumentation

Alicat Scientific Inc
Bailey-Fischer & Porter Co
Control Co
Dwyer Instruments Inc
Furness Controls Inc
Omega Engineering Inc
SEE AD ON PAGE 2, 133
Omegadyne Inc
Plast-O-Matic Valves Inc
Red Valve Co Inc
Technical Products & Services Inc
Vaisala Inc

Process Control Instrumentation

ASOMA-WTC Engineering Inc
Athena Controls Inc

Auburn International Inc
Automation Products Inc
Bailey-Fischer & Porter Co
Bristol Babcock Inc
Computer Instruments Corp
Contec Systems Industrial Corp



DataTest Inc
Dwyer Instruments Inc
Gems Sensors Inc
HNU Systems Inc
SEE AD ON PAGE 81, 166
Hersey Measurement Co
Hyde Consultants Inc
Lakewood Products/Osmonics
Logic Beach Inc
Millitronics Inc
SEE AD ON PAGE 66, 124
Pace Environmental Products Inc
Plast-O-Matic Valves Inc
Powers Process Controls
RMT Machinery Inc
Ross Air Systems
SENTEX Systems Inc
Zone Automation

Professional & Trade Associations

Academy of Certified Hazardous
Materials Managers
Air & Waste Management Association
American Institute of Chemical
Engineers
Behavioral Science Technology Inc
National Registry of Environmental
Professionals

Programmable Controllers/Timers

Athena Controls Inc
Bristol Babcock Inc
Control Co
GE Co
Interon Corp
Koester Environmental Services Inc
Precision Multiple Controls

Protective Clothing

ABBS/Guard-Dogs
DSC Distributors Service Corp
Direct Safety Co Inc
EnviroLine Inc
ILC Dover Inc
SEE AD ON PAGE 123, 141
Iron Age Safety Shoes
Mapa Professional
SEE AD ON PAGE 109, 187
Mar Mac Manufacturing Co Inc
North Safety Products
Occupational Training & Supply Inc
Premier Safety & Service Inc
Racal Health & Safety Inc
Ronco Textile Products Inc
Western Research Institute

Publications

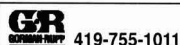
Air & Waste Management
Association
American Institute of
Chemical Engineers
Donley Technology
Florida Specifier
Genium Publishing Corp
Georgia & Southeast
Environmental News
J J Keller & Associates Inc
SEE AD ON PAGE 86, 112
National Registry of Environmental
Professionals
National Technical Information Service
Network Environmental Systems Inc
Technomic Publishing Co Inc
Worldwide Technologies
SEE AD ON PAGE 158

Pulverizers

Franklin Miller Inc
Helken Equipment Co
SSI Shredding Systems Inc

Pump Controllers

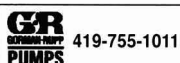
ABS Pumps Inc
Blackhawk Environmental
Clean Environment Equipment
Cole-Parmer Instrument Co
Danfoss-Instrumark
Geotech Environmental
Equipment Inc



Gorman-Rupp Co
Interon Corp
Omega Engineering Inc
SEE AD ON PAGE 2, 133
Watson-Marlow Inc
Weil Pump Co Inc

Pumping Stations/Systems

Air Dimensions Inc
B L Myers Bros Inc
BBS Corp
Blackhawk Environmental
Butterworth Jetting
Systems Inc
ChemPump -
Div of Crane Pumps & Systems
Flowserve Corp
Fultz Pumps Inc
Geotech Environmental
Equipment Inc
Godwin Pumps of America Inc



Gorman-Rupp Co

ITT A-C Pump
Interon Corp
MEGA Systems & Chemicals
Pumpex Inc
SEE AD ON PAGE 159
SRS Crisafulli Inc
Sam Dick Industries
Tahoe Design Software
US Filter/EMU Products
Weil Pump Co Inc

Pumps (Sludge, Wastewater, Groundwater, Misc.)

A R Manufacturing
& Supply Inc
ABS Pumps Inc
AMS Inc
B L Myers Bros Inc
BJM Corp
Baker Tanks Inc
Bayou City Pump Works Inc
Bisco Environmental
Blackhawk Environmental
Butterworth Jetting
Systems Inc
ChemPump -
Div of Crane Pumps & Systems
Clean Environment Equipment
Cole-Parmer Instrument Co
Ejector Systems Inc
EnviroLine Inc
Flowserve Corp
Fultz Pumps Inc
Gator Pump Inc
Gemstone Environmental
Geotech Environmental
Equipment Inc
Godwin Pumps of America Inc



Gorman-Rupp Co

ITT A-C Pump
Interon Corp
Kock Instruments Inc
Kornline-Sanderson
LWT Inc
Lutz Pumps Inc
MITI Manufacturing
MPC Environmental
Megator Corp
Nagle Pumps Inc
Onron Enterprises
Osmonics
Price Pump Co
Pumpex Inc
SEE AD ON PAGE 159



QED Environmental
Systems Inc
Rain for Rent
Response Rentals

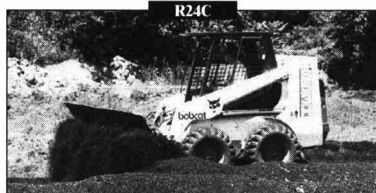


SRS Crisafulli Inc



Seepex Inc
Slickbar Products Corp
Tahoe Design Software
Technical Products
& Services Inc
US Filter/EMU Products
US Filter/Zimpro
V-Ram Solids
Water Works
Watson-Marlow Inc
Weil Pump Co Inc

BBBROWN BEAR

**Flexibility**

Flexibility: For your project and your budget
Flexibility: For Composting, Dewatering, Bioremediation
Flexibility: From the smallest to the largest projects
Flexibility: From attachments to self propelled
Flexibility: From job site to job site
Flexibility: From the company that was the original

BBBROWN BEAR

Three Brown stripes... The sign of quality
Brown Bear Corp., Corning, Iowa 50841 (515) 322-4220

TAKE CONTROL OF SUBJECT PROPERTY LOCATION.



STARVIEW™. FULL CONTROL. INSTANT REPORTS. NO MODEM. NO HASSLE.

STARVIEW™ software provides immediate desktop access and total control over environmental report production:

- Verify and precisely locate subject property locations.
- Define custom search criteria or use ASTM standards.
- Create reports anytime—24 hours a day, 7 days a week
- Reduce expenses with affordable annual licensing fees
- Windows compatible CD-ROM

"STARVIEW™ puts the control and the choices where they belong, at PEER."

Dave Vieau, president,
PEER Environmental & Engineering Resources, Inc.



Free Risk Assessment Products Directory
Call (800) 767-0403

VISTA

VISTA INFORMATION SYSTEMS, INC.
5060 SHOREHAM PLACE, SAN DIEGO, CA 92122
WWW.VISTAINFO.COM

Pyrolytic Processing

Pyrolytic Processing



Surface Combustion Inc

Radiometer/Radiation Instrumentation

S E International Inc
Scientific Sales Inc
UVP Inc
Williamson Corp

Radon, Testing & Analysis

Environmental Solutions Inc
Environmental Technologies Inc
Moshman Environmental Engineering
Precision Analysis Inc

Recorder Accessories

Abbott Enterprises Inc
Fuji Electric Corp of America
Monarch Instrument
Onset Computer Corp

Recorders

Abbott Enterprises Inc
Barnstead/ThermoLine
Bristol Babcock Inc
Contec Systems Industrial Corp
Dancer Communications Inc
Dwyer Instruments Inc
Fuji Electric Corp of America
Logic Beach Inc
Monarch Instrument
Newport Electronics Inc
Omega Engineering Inc
SEE AD ON PAGE 2, 133
Onset Computer Corp
Water Specialties

Recycling Equipment/Services

Advanced Environmental
Recycling Co LLC
Allied Signal Environmental
Systems & Services
American Roll-off
Arbitt Glove & Safety Products
Automation Products Inc
Bandit Industries Inc
Bes-Pac Inc
Brown Bear Corp
SEE AD ON PAGE 55, 149
Delta Cooling Towers Inc
Dynalene Heat Transfer Fluids
EEC USA Inc
J V Manufacturing Inc/Cram-A-Lot
Mercury Technologies Intl LP
PBR Industries
Polylinex Separation Technologies Inc
S C Altman & Associates
SAMSCO Inc
SRS Industrial Engineering Inc
SSI Shredding Systems Inc
Smales Conveyors
Soil Safe Inc



Surface Combustion Inc
US Filter Recovery Services
Unipure Environmental
Westport Environmental Systems

Reference Materials

Air & Waste Management Association
Chem Service Inc
EH&S RegSmart



Eldredge Inc
Environmental & Information
Resources Inc
Environmental Resource Center
SEE AD ON PAGE 85, 159

Genium Publishing Corp
Sanford L Werner Consulting
Geohydrologist
Ultra Scientific
West Group
SEE AD ON PAGE 4, 111
Western Research Institute

Refractometers

EPIC Inc

Refractory Materials

C B P Engineering Corp
Martin Marietta Magnesia
Specialties Inc
SEE AD ON PAGE 165

Regulators

Air Products & Chemicals Inc
CPI Electronic Publishing
Plast-O-Matic Valves Inc
Powers Process Controls
Scott Specialty Gases

Remediation

All Systems Inc
Abanaki Corp/Oil Skimmer Div
SEE AD ON PAGE 46, 152

Advanced Environmental
Recycling Co LLC
Advanced Geoservices Corp
Atlantic Fluidics Inc
B A Liesch Associates Inc
Bisco Environmental
Blasland, Bouck & Lee Inc
CPI Electronic Publishing
Carbtrol Corp
Central Wisconsin Engineers & Architects Inc
Clayton Group Services Inc
Clean Environment Equipment
CleanOX Environmental Services Inc
Crouse Enterprises Inc



Dames & Moore Group
Delta Cooling Towers Inc
Earthsource Consulting Inc
Entrix Inc
Enviro Supply & Service Inc
Envirogenics
Environmental Fuel Systems
Environmental Mitigation Group
Environmental Resources
Management
Environmental Risk Ltd
Environmental Technology Inc
GeoCore Services Inc
Global Technologies
Golder Associates
SEE AD ON PAGE 27, 105

Groundwater & Environmental
Services Inc
Groundwater Services Inc
HDR Engineering Inc
Harding Lawson Associates
HydroQual Inc
Hydrocarbon Environmental
Recovery Systems
In-Situ Oxidative Technologies Inc
Industrial Marine Service Inc
Innovative & Creative
Environmental Solutions
International Technology Corp
Jacobs Environmental Inc
King Buck Technology
Kornex-H2O Science
Leggett, Brashears & Graham Inc

Little Beaver Inc

SEE AD ON PAGE 57, 108
Microbial Insights Inc
NES Inc
National Technical Information Service
Oronon Enterprises
Ontario Center for Environmental
Technology Advancement
Patrick Engineering Inc
Petro-Green Inc
Philip ServicesCorp/
Industrial Services Group
Phyto Works Inc

Remediation Services

Princeton-Somerset Group Inc
Probiotic Solutions
SEE AD ON PAGE 63, 144

Process Technologies Inc
Radiac Environmental Services
Reef Industries Inc
Roberts & Schaefer Co
Roehrig & Associates Inc
SBP Technologies Inc
STC Remediation Inc
Serengeti Environmental
Svenson Environmental Services Inc
Soil Safe Inc
Solvay Interlox Inc
TRAK Environmental Group Inc
Tetra Tech NUS

Trumpf Power Tools
SEE AD ON PAGE 81, 167
VFL Technology Corp

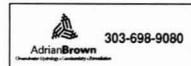
Remediation, In Situ

BOC Gases
Blasland, Bouck & Lee Inc
Boelter & Yates Inc
CleanOX Environmental Services Inc
Conti Environmental Inc
Crouse Enterprises Inc
Dahl & Associates Inc
Ejector Systems Inc
Environmental & Information
Resources Inc
Environmental Mitigation Group
Environmental Technology Inc
Environmental Waste Management
Associates LLC
Groundwater & Environmental
Services Inc
Harding Lawson Associates
In-Situ Oxidative Technologies Inc
Leggett, Brashears & Graham Inc
NES Inc
Pantera Environmental Consulting/
Real Estate Recovery
Probiotic Solutions
SEE AD ON PAGE 63, 149

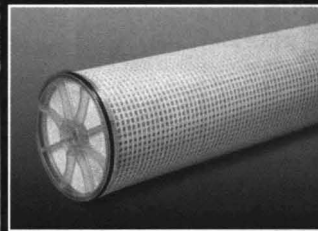
SBP Technologies Inc
STC Remediation Inc
Schumacher Filters America Inc
Serengeti Environmental
Svenson Environmental Services Inc
Terra Systems Inc
VFL Technology Corp
Zorbit Technologies Inc

Remediation Services

ABR Inc
AIL Systems Inc
APEX Environmental Services Inc
ATC Associates Inc
Acton-Mickelson Environmental Inc
Adirondack Environmental Associates Inc



Adrian Brown Consultants Inc
Advanced Environmental Systems Inc
Advanced Geoservices Corp
Aires Consulting Group Inc
American Waste Services Inc
August Mack Environmental Inc
BDM International Inc
BEM Systems Inc
Baker Tanks Inc
Beling Consultants
Benchmark Environmental Corp
Betz Dearborn
Black & Veatch
Brown & Caldwell
Buffalo Drilling Co Inc
Burns & McDonnell Waste
Consultants Inc
Calgon Carbon Corp
Carson Geologic & Environmental Inc
Carter, Darnell & Grubbs Engineers Inc
Chapman Inc
CleanOX Environmental Services Inc
Compliance Solutions Occupational
Trainers Inc
Conti Environmental Inc
Creative Waste Management Inc
Crouse Enterprises Inc



Reclaim & Recycle Your Resources ... *Discover Osmonics.*

Acids. Metals. Water.

Your production process requires considerable resources. And resources cost money. Reclaiming and recycling is a viable cost-recovery option. Membrane filtration and separation of your production waste stream can reclaim process acids, metals, and recycle water without stream neutralization or sludge generation. Making our solution both cost-efficient and environmentally sensitive.

Osmonics Desal is the recognized leader in innovative spiral membrane separation and filtration technology. Whether you require system design and development guidance, enhanced membrane capabilities, system pumps, filters, or casings for reclaiming your resources ... Osmonics Desal is the one name to remember.

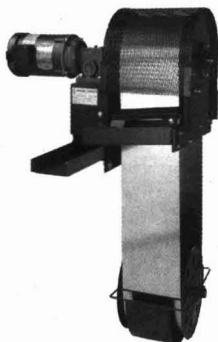
For more information call
1-800-423-3725.



OSMONICS
DESAL

760 Shadowridge Dr., Vista, CA 92083
(760) 598-3334, Fax: (760) 598-3335
<http://www.osmonics.com>

We Eat Oil For Breakfast...



...And Grease For Lunch

**And we've been
doing it for
over 25 years!**

Abanaki is the
world leader
in industrial skimming
of oil and grease.
Save money, save time.
Call the experts today.

800-358-SKIM ext. 509
<http://www.abanaki.com>

ABANAKI CORPORATION OIL SKIMMER DIVISION

17387 Munn Road
Chagrin Falls, OH 44023
(440) 543-7400
FAX (440) 543-7404



Remediation Services

Design Compliance Assoc
ENSR
Earth Data Inc
Eco Services Inc
Eco Solv Inc
Eldredge Inc
Environmental & Information
Resources Inc
Environmental Dimensions Inc
Environmental Maintenance
Technology
Environmental Personnel Agency
Environmental Technology Inc
Environmental Waste Management
Associates LLC
Forrester Group Inc
GeoCore Services Inc
Groundwater Recovery Systems Inc
Groundwater & Environmental
Services Inc
Groundwater Services Inc
HDR Engineering Inc
HPC Inc
Hahn & Associates Inc
Haley & Aldrich Inc
Handex Environmental Midwest
Hargis & Associates Inc
HazWaste Technologies Corp
Holzmacher, McLendon & Murrell PC
Huntington Environmental Systems
Hyde Consultants Inc
In-Situ Oxidative Technologies Inc
Innovative Consultants Inc
K & S Engineers Inc
Kilam Associates
Consulting Engineers
King Buck Technology
Laurel Environmental Associates Inc
Leggett, Brashears
& Graham Inc
Lexicon Environmental
Associates Inc
SEE AD ON PAGE 7, 135
Metropolitan Manufacturers
Association
Midwest Research Institute



Morrison Knudsen Corp
Moshman Environmental Engineering
NES Inc
Nassell Engineering & Equipment Co Inc
Nielsen Inc
Omni Professional Environmental
Associates PA
P E LaMoreaux & Associates
Penn Environmental & Remediation Inc
Pentek Inc
Phillip Services Corp/Industrial
Services Group
Raytheon Environmental & Quality
Programs
Rosengarten, Smith & Associates Inc
Roy F Weston Inc
SBP Technologies Inc
STC Remediation Inc
STV Inc
Safety & Environmental Resources Inc
Savant Enterprises LLC
Serengeti Environmental
Sevenson Environmental Services Inc
Slosky & Co Inc
Soil Safe Inc
Stonehill Environmental Inc
Target Environmental Services
Terra Systems Inc
Touhill Technology Management Corp
Toxicon Corp
Unipure Environmental
Universal Fabric Structures
VFL Technology Corp
Van Note-Harvey Associates PC
Versar Inc
W Gale Biggs Associates
WCM Group Inc
WES Corp
Western Water Consultants Inc

Rental Services
ASC Professionals
Baker Tanks Inc

Bird Machine Co



CAE Instrument Rental
Cherokee Instruments Inc
Eco Services Inc
Enviro-Equipment Inc
Fergus Power Pump Inc
Flo Trend Systems Inc
Global Technologies
Godwin Pumps of America Inc
Hertz Equipment Rental
Keck Instruments Inc
King Buck Technology
LWT Inc
Malcom Co-Leister Hot
Air Systems
Mincy Inc
Pentek Inc
Response Rentals
Visual Inspection Technologies Inc

Respiratory Protection Equipment



MST-Modern Safety Technologies

Respirometers
Arthur Technology Inc
Bio Science Inc
Columbus Instruments

Reverse Osmosis Equipment

Automation Products Inc
Barnstead/ThermoLine
Dynatec Systems Inc
EEC USA Inc
LCI Corp
Myron L Co
Niro Inc
Osmonics
United States Filter Corp
Water Remediation
Technologies
World Water Systems Inc

Risk Analysis

A B B Environmental Services Inc
Advanced Geoservices Corp
BEM Systems Inc
Benchmark Environmental Corp
Boelter & Yates Inc
Dahl & Associates Inc
Dzurman/Associates PC
E Data Resources Inc
Entrix Inc
Environmental & Information
Resources Inc
Environmental Compliance
Consultants Inc
Environmental Risk Ltd
Environmental Science
Services Inc
Environmental Systems &
Technologies Inc

Golden Associates Inc

SEE AD ON PAGE 27, 105

Hyde Consultants Inc
HydroQual Inc
InterCorp Inc
International Technology Corp
Komet-H2O Science
N B Olewine Co Inc
PCCI Inc
Pantera Environmental
Consulting/Real Estate Recovery
Pollution Research &
Technology Inc
Princeton-Somerset Group Inc
Quality Assurance Associates
Ronald L Beethe, CIH
Safety Management
Resources Corp
Slosky & Co Inc
Software Certification Institute
Trinity Consultants Inc

Rupture Disks
Jensen Inert Products

Safety Equipment & Products

ABBS/Guard-Dogs
Abbottfield Industrial Training Inc
Air Products & Chemicals Inc
Alaco Ladder Co
Altro Floors
American Orthopedic
Appliance Group Inc
Andax Environmental Corp
Arbitt Glove & Safety Products
BCAM International Inc
BNA Communications Inc
Bacharach Inc
Basic Concepts Inc
Bay Gen Power USA Inc
Behavioral Science Technology Inc
Best Manufacturing Co
Biosystems Inc
CPI Electronic Publishing
Chums Ltd
Compliance Solutions Occupational
Trainers Inc
DSC Distributors Service Corp
Direct Safety Co Inc
Eastern Metal/USA-Sign
Ecosorb International Inc
Enviro Supply & Service Inc
EnviroLine Inc
Envirogenics
Gas Tech Inc
Gemtor Inc
Genium Publishing Corp
Grace Industries Inc
H L Bouton Co
Haztech Systems Inc
ILC Dover Inc

SEE AD ON PAGE 123, 141

J J Keller & Associates Inc
SEE AD ON PAGE 86, 112

JDS Products Inc
Justrite Manufacturing Co
Kappler Protective
Apparel & Fabrics
Knorr Associates
Louisville Ladder Corp
MITI Manufacturing



MST-Modern Safety Technologies

Mapa Professional

SEE AD ON PAGE 109, 187

Mar Mac Manufacturing Co Inc
Mine Safety Appliances Co
Mountain Valley Ventures Inc
Neoterik Health Technologies Inc
New Pig Corp
North Safety Products
Occupational Training
& Supply Inc
Premier Safety & Service Inc
Racal Health & Safety Inc
SKC Inc
Safetec of America Inc
Safety Storage Inc
Scott Health & Safety
Sierra Monitor Corp
Skedco Inc
Steele Inc
Sur-Loc Inc
Survivor Inc
TISCOR
The Reflectory
Tracker Technologies
Trans Environmental
Systems Inc
SEE AD ON PAGE 81, 157

U O Equipment Co
UVEX Safety
Wag-Aero Group
Water-Jel Technologies
Weldas Co
Western Research Institute
Williams Jewelry &
Manufacturing Co
Workplace Safety Products
Youngstown Barrel & Drum

Sedimentation Equipment

Sample Containers



Entech Instruments Inc
EnviroLine Inc
Jensen Inert Products
MMC International Corp
Nasco
Plastic Film Enterprises Inc
SASSCO
SKS Bottle & Packaging Inc
Trumpf Power Tools
SEE AD ON PAGE 81, 167

Sampling Systems

AMS Inc
Advanced Concepts & Design Inc



Air Dimensions Inc
Air Resource Specialists Inc
American Sigma Inc
Apex Instruments Inc
Associated Design & Manufacturing Co
Clean Environment Equipment



Entech Instruments Inc
EnviroLine Inc
Environmental Supply Co Inc
Eventide Software Co
Geotech Environmental Equipment Inc
Isco Inc
Kek Instruments Inc
MIE Inc (Monitoring Instruments for the Environment)
Occupational Training & Supply Inc
Phipps & Bird
Target Environmental Services
Teledyne Brown Engineering
Control Applications
US Filter/Johnson Screens
Universal Analyzers Inc



Voss Technologies Inc
Wonder Makers Inc
Zefon Analytical

Screens

JWC Environmental
Kornline-Sanderson
Royal Guard Corp
US Filter/Johnson Screens
Waste-Tech Inc

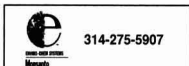
Scrubbers



Arotech Inc
Andersen 2000 Inc



Automation Products Inc
Beco Engineering Co
Biothane Corp
Brown-Minneapolis Tank -
Div of TEQ Storage Systems
Clean Gas Systems Inc
Delta Cooling Towers Inc
Durr Environmental Inc
ERS Services Inc
Global Technologies
Hi Temp Technology Corp
King Buck Technology
McGill Airclean Corp
Misonix Inc
SEE AD ON PAGE 18, 143



Monsanto Enviro-Chem Systems
Morlan & Morlan Inc
NuTech Environmental Corp
RaySolv Inc
Research-Cottrell



Thiel Air Technologies
Trewin & Smith Inc
Turner Enviro Logic Inc



US Filter/RJ Environmental
Wheelabrator Air Pollution Control Inc
Winston Manufacturing Corp

Sealants

GE Co
ITW Devcon Engineered Coatings
Louis R Hovater Consulting Engineer



Morton International
PolySpec Corp

Secondary Containment

Andax Environmental Corp
Asahi/America Inc
Assmann Corporation of America
Basic Concepts Inc
Carboline Co
Chem-tainer Industries
ConVault Inc
Direct Safety Co Inc
Easi-Set Ind
Environetics Inc
Environmental Compliance Products
Fluid Controls Inc
General Container Corp
George Fischer Inc



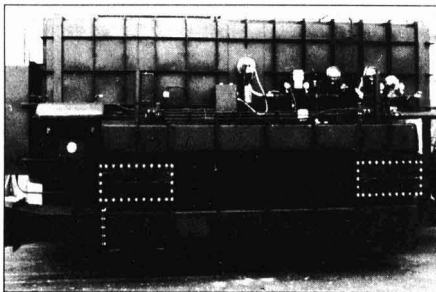
Haz Safe Buildings
SEE AD ON PAGE 160

ITW Devcon Engineered Coatings
Justrite Mig Co
Kepner Plastics Fabricators Inc
LeapFrog Technologies Inc
Louis R Hovater Consulting Engineer
MPC Containment Systems Ltd
Morton International
PacTec Inc
PolySpec Corp
Rain for Rent
Reef Industries Inc
Safety Storage Inc
Skolnik Industries Inc
Slickbar Products Corp
Smith Fiberglass Products Co
Trans Environmental Systems Inc
SEE AD ON PAGE 81, 157

Tri-State Environmental
Products & Equipment
Waste Control Systems Inc
Youngstown Barrel & Drum

Sedimentation Equipment

Automation Products Inc
Bird Machine Co
Jeffrey-Tropodyne
Philip Services Corp/Industrial
Services Group
Regulatory Compliance
Management Inc
SRS Crisafulli Inc
Vortech Inc
SEE AD ON PAGE 47, 158



POINT SOURCE APPLICATIONS:

- Chemical Processing/Expanded Foam
- Pharmaceuticals/Ethylene Oxide
- ABS Resin/Styrene/Formaldehyde
- Web Converting/Coating/Adhesives
- Paint Finishing/Varnishing/Spray Coating
- Phenolic Composites/Treating
- Semiconductor/Circuit Boards/Adhesives
- Metal/Plastic Coating/Can Coating

PRODUCTS/SERVICES:

- RETOX™ RTO Twin Bed Regenerative Thermal Oxidizers
- Katox Catalytic Oxidizers
- Skid or Trailer Mounted Units
- Single Source Turnkey Installation
- Lease Finance Options
- TEL-MAX Telemetry/PLC Controls
- Special Halogenated Designs

TURNKEY OXIDIZER SYSTEMS FROM 100-100,000 SCFM FLOWRATES

E Mail or Call Today for a Free Catalog



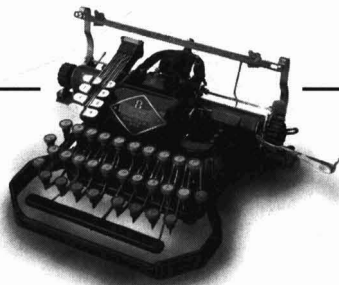
Corporate Office
1175 North Van Horne Way
Anaheim, CA 92806-2506
Tel: 714-632-9801
Fax: 714-632-9812
E-mail: adwestusa@ioc.net
Website: adwestusa.com

EAST COAST OFFICE
151 Trapping Brook Rd.
Wellsville, NY 14895-9465
TEL: (716) 593-1405
FAX: (716) 593-6614
E-MAIL: adwestny@eznet.net

Visit our website: adwestusa.com

Circle 146 on card.

A little out of date with EPA compliance?



Irritating the EPA is not a happy thought. With MIRS™ the worry over deadlines can be reduced considerably. Easy-to-use and accurate, MIRS™ is the first choice of hundreds of environmental managers throughout the country. Shouldn't you learn more about MIRS™ before your next deadline?

Easy-to-use environmental management software.
Call (313) 973-3000.

MIRS™
MATERIAL INVENTORY
REPORT SYSTEM
A V SYSTEMS, INC.

www.mich.com/~avsys/mirs.htm

Sensors

Sensors

Athena Controls Inc
Automation Products Inc
BioRenewal
Technologies Inc
Blue-White Ind
CEA Instruments Inc
Computer Instruments Corp
Consilium Metritrac Inc
Engineered Systems & Design
Fluid Components Intl
Gems Sensors Inc
Green Tek Inc
Hersey Measurement Co
In-Situ Inc
Incon Inc
Innovative Sensors Inc
Interson Corp
MEGA Systems & Chemicals
MIE Inc (Monitoring Instruments for
the Environment)
MKS Instruments -
HPS Vacuum Products

McMillan
C·O·M·P·A·N·Y

800-861-0231

McMillan Co

Met One Instruments Inc

SEE AD ON PAGE 87, 162

Mit-Ram Technology Inc

Milltronics Inc

SEE AD ON PAGE 66, 124

Mine Safety Appliances Co

Newport Electronics Inc

Omega Engineering Inc

SEE AD ON PAGE 2, 133

Omega-Vanzetti Inc

Omegadyne Inc

Red Valve Co Inc

Scantek Inc

Vaisala Inc

Veeder-Root Co

Separation Systems

AirSep Corporation-Industrial Div
Amistco Separation Products
Bird Machine Co
CINC
Eriez Magnetics
Hayward Industrial Products Inc
Hudson Industries
Hydro Quip Inc
HydroCal Inc
Mott Corp
Oil Skimmers Inc
SEE AD ON PAGE 55, 145
PacTec Inc
Pall Corporation
Pennwalt India Ltd
Polylox Separation Technologies Inc
SOMAT Corp
Taylor Environmental Products Inc
SEE AD ON PAGE 60, 159
US Filter/HPD
US Filter/JWI
US Filter/Zimpro
Vara Intl-
Div of Calgon Carbon Corp
Vortech Inc
SEE AD ON PAGE 47, 158
World Water Systems Inc

Separators

Alfa Laval Sharples
Amistco Separation Products
Bird Machine Co
CINC
Clean Gas Systems Inc
Eriez Magnetics
Hayward Industrial Products Inc
Highland Tank & Manufacturing Co
Hilliard Corp
Hudson Industries
Megator Corp
Pall Corporation
Pennwalt India Ltd
Purac Engineering

Taylor Environmental Products Inc

SEE AD ON PAGE 60, 159

Winston Manufacturing Corp
World Water Systems Inc

Septic Tanks

Chem-tainer Industries
Infiltrator Systems Inc
Valley Well Drilling

Sequencing Batch Reactors

Automation Products Inc
Lemna USA Inc
MKS Instruments-HPS Vacuum Products
Monitek Technologies Inc
Taylor Environmental Products Inc
SEE AD ON PAGE 60, 159
US Filter/Jet Tech
Water Pollution Control Corp

Settling Chambers

Buffalo Drilling Co Inc
Jeffrey-Tropdyne

Sewage/Sludge Disposal Equipment/Services

Aeromix Systems Inc
Alfa Laval Sharples
American Waste Services Inc
BJM Corp
Bio Gro Div/Wheelabrator Water
Technologies Inc
CDR Environmental Inc
Creative Waste Management Inc
D R Cordell & Associates Inc
EEC USA Inc
Ecosorb International Inc

Eldredge
610-438-4748

Eldredge Inc

Environmental Science Services Inc

Fergus Power Pump Inc
Frontier Technology Inc
G B Willson Associates Inc
HML Inc dba Hoosier
Microbiological Laboratory
Innovative Consultants Inc
LWT Inc
Rutgers University-
Office of Continuing Prof Educ

U.S. FILTER
JWI
800-245-3006

US Filter/JWI
Warminster Fiberglass Co
Water Technology International Corp
Watson-Marlow Inc
Whiteford Environmental Services

Sewage Transport Systems

Alvord, Burdick & Howson Engineers

Eldredge
610-438-4748

Eldredge Inc
Hobas Pipe USA Inc
Interson Corp

Sewer Inspection TV Systems

R S Technical Services Inc
Visual Inspection Technologies Inc

Sewer & Stormline Root Control

ROOTX 800-844-4974

General Chemical Co

Shelters

Easi-Set Ind
Plasti-Fab Inc
Safety Storage Inc
Universal Fabric Structures
Warminster Fiberglass Co

Shredders

Ameri-Shred Corp
Franklin Miller Inc
Helken Equipment Co
JWC Environmental
Morlan & Morlan Inc
SSI Shredding Systems Inc
Waste Control Systems Inc

Signal Conditioners

Omega Engineering Inc
SEE AD ON PAGE 2, 133

Silencers/Mufflers

Dustvent Inc

Site Assessment

A B B Environmental
Services Inc
Advanced Geoservices Corp
August Mack Environmental Inc
B A Liesch Associates Inc
Burns & McDonnell Waste
Consultants Inc
Clayton Group Services Inc
Compliance Solutions
Occupational Trainers Inc
Design Compliance Assoc
Dragun Corp
E Data Resources Inc
EH&S RegSmart
Earth Data Inc
Earthsource Consulting Inc
Environmental Fuel Systems
Environmental Resources
Management
Environmental Risk Ltd



SBR Wastewater Treatment for Domestic, Municipal & Industrial Applications

For More Information Contact:

Babcock Water Engineering, L.P.

15707 Rockfield Blvd., Suite 333

Irvine, CA 92618

Phone: 714-472-9110 ♦ Fax: 714-472-9210

E-Mail: wastewater@sbrass.com

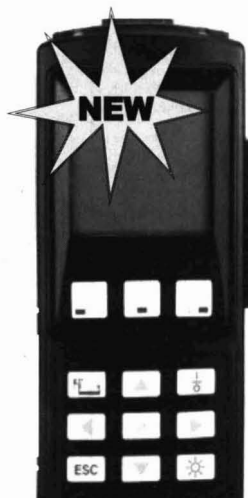
http://www.sbrass.com

CASS
by Babcock

Babcock
International

Set Your Sights On The Best Portable Combustion Analyzer, Anywhere!

testo



The testo 300 offers:

- Immediate readings
- Combustion Efficiency
- O₂, CO₂, readings
- Easy to use
- Lightweight

IDEAL FOR:
Emergency
Response
CO detector
Gas leak detector

Call for Free Brochure

800-227-0729

Testo, Inc. Flanders, NJ

Fax: 973-252-1729, Http://www.testo.com

Sludge Dewatering/Disposal Services

Environmental Systems & Technologies Inc

Environmental Technologies Inc
Geo-Environmental Solutions
GeoCore Services Inc

Golden Associates Inc

SEE AD ON PAGE 27, 105

Groundwater & Environmental Services Inc

Groundwater Services Inc

Hahn & Associates Inc

Haley & Aldrich Inc

Handex Environmental Midwest

Harding Lawson Associates

Holzmaier, McLendon & Murrell PC

Hyde Consultants Inc

Industrial Marine Service Inc

J L & Associates

K & S Engineers Inc

Komex-H2O Science

Laurel Environmental Associates Inc

Leggett, Brashears & Graham Inc

Microbial Insights Inc

NES Inc

Network Environmental Systems Inc

Normandeau Associates

Pollution Research & Technology Inc

Precision Analysis Inc

Princeton-Somerset Group Inc

Quality Assurance Associates

Resource Management Group Inc

Roehrig & Associates Inc

Ronald L. Beebe, CIH

SBP Technologies Inc

STV Inc

Savant Enterprises LLC

Serengiti Environmental

Stonehill Environmental Inc

Target Environmental Services

Tribble & Richardson

Vista Information Solutions Inc

SEE AD ON PAGE 71, 150

WES Corp

West Group

SEE AD ON PAGE 4, 111

Western Water Consultants Inc

Sludge Blanket Level

Automation Products Inc

Drexelbrook Engineering Co

Nasco

Zellweger Analytics Inc

Sludge Concentrating Equipment

Alfa Laval Sharples

Automation Products Inc

FKC Co Ltd

Gemstone Environmental

Komline-Sanderson

SOMAT Corp

Sludge Dewatering/Disposal Services



612-933-9006

Ag-Chem Equipment Co Inc

Alfa Laval Sharples

Bio Gro Div/Wheelabrator Water

Technologies Inc

CDR Environmental Inc

Creative Waste Management Inc

D R Cordell & Associates Inc

Fergus Power Pump Inc

Handex Environmental Midwest

Innovative Consultants Inc

PacTec Inc

Philip ServicesCorp/Industrial

Services Group

Svenson Environmental Services Inc

US Filter Recovery Services

VFL Technology Corp

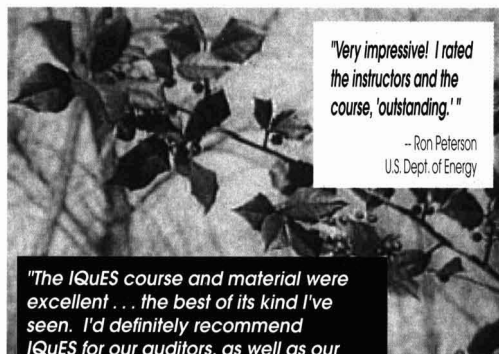
West Group

SEE AD ON PAGE 4, 111

Whiteford Environmental Services

ISO 14000

ANSI/RAB ACCREDITED TRAINING



"Very impressive! I rated the instructors and the course, 'outstanding.'"

— Ron Peterson
U.S. Dept. of Energy

"The IQuES course and material were excellent . . . the best of its kind I've seen. I'd definitely recommend IQuES for our auditors, as well as our clients."

— Brent Backus
TUV Rheinland

IQuES is *the* leading provider of ISO 14000 training and management services in North America.

800-793-2691

(248) 344-4466

FAX: (248) 344-9759

e-mail: IQuES@aol.com

IQuES

INTERNATIONAL QUALITY & ENVIRONMENTAL SERVICES, LLC

Circle 152 on card.

OZONIA®

THE CLEAN TECHNOLOGY



OZAT CF-6

- Ozone Oxidation
- Up to 10% Concentration and Higher (FROM OXYGEN)
- Chemical Process Oxidation
- Groundwater Oxidation
- Recycle Process Water
- Wastewater Oxidation
- Sterilize DI Water
- Pilot Units Available
- Ozone Monitors & Decomposers

Reduce or eliminate costly chemical oxidants and disinfectants.

Advanced Technology design allows ozone generation at high concentrations (to 15% from oxygen; 5% from air) with proven reliability and cost efficiency.

<http://www.ozonianorthamerica.com>



OZONIA

NORTH AMERICA

491 Edward H. Ross Drive

P.O. Box 455

Elmwood Park, NJ 07407

USA

Tel.: 201-794-3100

Fax: 201-794-3358

OZONIA LTD
Switzerland

OZONIA
France

OZONIA TRIODEN
Scotland

CHAMP OZONE CO., LTD.
Korea

OZONIA GUANGZHOU
China

Ozonix® products are available in countries all over the world. Please contact us for details of your representative.

IMMEDIATE GROUNDWATER REMEDIATION

Patented System - Five Year Proven Track Record

DNAPL - BTEX - VOCs - Pesticides

Remediates Organic Contamination

Large and small plumes - Fractured rock

The CleanOX® Process uses an environmentally safe Fenton-like chemistry. Safe and effective - no dangerous chemicals or pressures or special injectors.

No capital equipment. Test 7 days and beyond post injections for results.

Injection hardware fits inside monitoring wells and other subsurface access.

Low cost in-situ solution / rapid remediation for sites.

Use examples: gas stations, dry cleaners, manufacturing, Superfund NPL.

Call for information package and case studies:

CleanOX Environmental Services, Inc.

17 Watchung Avenue, Chatham, NJ 07928

Phone: 973-701-1288 - Fax: 973-635-0751

Offices nationwide

<http://www.cleanox.com>

Circle 151 on card.

Sludge Dewatering Equipment

Sludge Dewatering Equipment

Albax Inc
Alfa Laval Sharples
Automation Products Inc
Barrett Centrifugals Inc
Brown Bear Corp

SEE AD ON PAGE 55, 149

Bucks Fabricating
Chemtrac Systems Inc
FKC Co Ltd
Flo Trend Systems Inc
Frontier Technology Inc
Gator Pump Inc
Gemstone Environmental

Great Lakes Environmental Inc

SEE AD ON PAGE 84, 106

Hydro Quip Inc
HydroCal Inc
Kem-Tron Technologies Inc
Kornline-Sanderson
PacTec Inc
Pennwall India Ltd
Rain for Rent

SOMAT Corp
Tristate Machinery Co
US Filter/Envirex

U.S. FILTER

JWI
800-245-3006

US Filter/JWI
United States Filter Corp
Waste-Tech Inc
Water Works
Whiteford Environmental Services

Sludge Management

Ag-Chem Equipment Co Inc
Bayou City Pump Works Inc
Bio Gro Div/Wheelabrator Water Technologies Inc
CDR Environmental Inc
Creative Waste Management Inc
Fergus Power Pump Inc
G B Willson Associates Inc
Hazen & Sawyer PC
Odor Management Technologies

SRS
Crisafulli
760-728-1790

SRS Crisafulli Inc
V-Ram Solids
VFL Technology Corp
Whiteford Environmental Services

Sludge Solidification

Creative Waste Management Inc
Crouse Enterprises Inc
Ecosorb International Inc
Maxon Industries Inc
Senvenson Environmental Services Inc
ToxGon Corp
VFL Technology Corp

Slurry Cut-Off Walls

Conti Environmental Inc
Crouse Enterprises Inc
Hydro Group Inc
Louis R Hovater Consulting Engineer
Senvenson Environmental Services Inc

Soil Gas/ Groundwater Surveys

ATC Associates Inc
Adirondack Environmental Associates Inc
BDM International Inc
Buchart-Horn Inc
Burns & McDonnell Waste Consultants Inc
Earthsource Consulting Inc
Eckenfelder Inc
Environmental Maintenance Technology
Environmental Technology Inc
Environmental Waste Management Associates LLC
GeoCore Services Inc
Groundwater & Environmental Services Inc
HPC Inc
Hahn & Associates Inc
Harding Lawson Associates
HazWaste Technologies Corp
Laurel Environmental Associates Inc
Leggett, Brashears & Graham Inc
Mark Schultz Associates
NEEP Systems
NES Inc
Patrick Engineering Inc
Pollution Research & Technology Inc
Quadrel Services Inc
Rocky Mountain Consultants Inc
Rosengarten, Smith & Associates Inc
Sanford L Werner, Consulting Geohydrologist
Slosky & Co Inc
Solar Testing Laboratories Inc
Stonehill Environmental Inc
TRAK Environmental Group Inc
Target Environmental Services
Tetra Tech NUS

Thermo Environmental Instruments
SEE AD ON PAGE 43, 113
Toxikon Corp
Tracer Research Corp
SEE AD ON PAGE 68, 118
Walsh Environmental Scientist & Engineers Inc

Soil Sampling Equipment

AMS Inc
Enviro Supply & Service Inc
Enviro-Equipment Inc
Environmental Maintenance Technology
GeoCore Services Inc
Little Beaver Inc
SEE AD ON PAGE 57, 108
Nasco
Off-Road Conversions Inc
-MATTRACK
SIMCO Drilling Equipment Inc
Strategic Diagnostics Inc
SEE AD ON PAGE 161
Wilks Enterprise Inc

Solvent Recovery Systems

Advest Technologies Inc
SEE AD ON PAGE 28, 153
Amec Inc

BARNEBEY & SUTCLIFFE CORPORATION
800-886-2272

Barnebey & Sutcliffe Corp
Brinkmann Instruments Inc
CINC
Edwards Engineering Corp
Hydrocarbon Environmental Recovery Systems
Jones Chromatography Inc
LCI Corp
OI Analytical
Process Technologies Inc
REECO
RaySolv Inc
SRS Industrial Engineering Inc
Solvent-Kleene Inc
Thiel Air Technologies
US Filter/HPD

VITA
INTERNATIONAL
851-567-1320

Vara Int'l-Div of Calgon
Carbon Corp
Waste-Tech Inc
Water Works
Westport Environmental Systems

Sonic Cleaning Devices

King Buck Technology

Speed Reducers

Harmonic Drive Technologies
Jeffrey-Tropodine
Smalls Conveyors

Spill Control Equipment/ Products/Services

Abanaki Corp/Oil Skimmer Div

SEE AD ON PAGE 46, 152


Andax Environmental Corp
Basic Concepts Inc
Central Wisconsin Engineers & Architects Inc
DSC Distributors Service Corp
Dialogic Communications Corp
Direct Safety Co Inc
Drexelbrook Engineering Co
Foss Environmental Services
HazWaste Technologies Corp
Hydrocarbon Environmental Recovery Systems
ILC Dover Inc
SEE AD ON PAGE 123, 141
Industrial Marine Service Inc
J T Baker,
A Div of Mallinckrodt Baker Inc
Justrite Manufacturing Co
Kepner Plastics Fabricators Inc
LeapFrog Technologies Inc
M J S & Associates
MPC Containment Systems Ltd
MPC Environmental
McPhee Environmental Supply
Mercury Technologies Intl LP
Metropolitan Manufacturers Association
New Pig Corp
Oil Skimmers Inc
SEE AD ON PAGE 55, 145
Omni Professional Environmental Associates PA
PBR Industries
PCCI Inc
PND Corp
Patrick Engineering Inc
Petro-Green Inc
PolySpec Corp
Premier Safety & Service Inc
Premier Services Corp
Safelec of America Inc
Safety & Environmental Resources Inc
Safety Storage Inc
Schumacher Filters America Inc
Slickbar Products Corp

SORBERT PRODUCTS CO., INC.
800-333-0080

Sorbert Products Co Inc
Stonehill Environmental Inc
TRAK Environmental Group Inc
Thomas Hill Inc Consulting Engineers

TRANS ENVIRONMENTAL SYSTEMS, INC.
800-220-2466

Trans Environmental Systems Inc
SEE AD ON PAGE 81, 157
Tri-State Environmental Products & Equipment
Vortech Inc
SEE AD ON PAGE 47, 158
Western Research Institute
Youngstown Barrel & Drum
Zorbit Technologies Inc



Wolverine

Catalytic Oxidizers • Thermal Oxidizers • Regenerative Oxidizers • Rotary Concentrator Systems

MEMO

TO: POLLUTION CONTROL PROJECT TEAM

FROM: DENNIS & MIKE

RE: WOLVERINE (MASSACHUSETTS) CORPORATION


MIKE AND I VISITED A FEW WOLVERINE INSTALLATIONS TODAY, TOURED THEIR FACILITY AND MET WITH COMPANY MANAGEMENT. WE WERE VERY IMPRESSED. THE FOLLOWING SUMMARIZES OUR FINDINGS AND OUR RECOMMENDATION.

WOLVERINE OFFERS--

- IMPECCABLE REFERENCES (EXPERIENCE/QUALITY/SERVICE)
- DEDICATED STAFF OF EXPERIENCED PROFESSIONALS
- ABILITY TO CUSTOMIZE THEIR EQUIPMENT TO FULFILL OUR NEEDS
- EXPERT STAFF TO MANAGE THE INSTALLATION FOR US
- HIGHEST QUALITY AND BEST VALUE IN THE INDUSTRY

WE'RE CONVINCED THAT NOBODY WILL WORK HARDER FOR US.

RECOMMENDATION: BUY FROM WOLVERINE



Wolverine
Est. 1930

Catalytic Oxidizers • Thermal Oxidizers • Regenerative Oxidizers

Call 1-800-VOC-OXIDIZE

Wolverine (Massachusetts) Corporation
1755 E. Matthew Drive, P.O. Box 5817
De Pere, Wisconsin 54115-5817
Tel: (920) 336-5231 • Fax: (920) 336-5360

Stack Emissions Testing

Spraying Equipment

Automation Products Inc
Kem-Tron Technologies Inc
MITI Manufacturing
Odor Management Technologies
Technical Products & Services Inc

Stack Emissions Monitors

Auburn International Inc
Baldwin Environmental Inc
Brant Luebbe Inc



800-223-3877

CAE Instrument Rental
Contec Systems Industrial Corp



DataTest Inc
ERD Environmental Inc
ERS Services Inc

Energy Efficiency Systems Inc

SEE AD ON PAGE 59, 157
Fluid Components Intl

Graseby Andersen Inc

SEE AD ON PAGE 69, 128

Green Tek Inc

HNU Systems Inc

SEE AD ON PAGE 81, 166

Horiba Instruments Inc
J U M of North America Inc
John Zink Co

KVB

Land Combustion

SEE AD ON PAGE 50, 166

MIE Inc (Monitoring Instruments for the Environment)
Resochem Corp

Testo Inc

SEE AD ON PAGE 85, 154
Thermo Environmental Instruments
SEE AD ON PAGE 43, 113

UAI Group LP
Universal Analyzers Inc
Williamson Corp
Zellweger Analytics
Zetronics/Zsolomat

Stack Emissions Testing



419-627-1976 OH
201-684-2880 NJ

Affiliated Environmental Services Inc
Ashland Chemical Co
Cherokee Instruments Inc
Conversion Technology Inc
Dyna-Fit Inc
ERD Environmental Inc
ERS Services Inc
Enercon Services Inc



Entech Instruments Inc
Environmental Dimensions Inc
Environmental Science Services Inc
Environmental Technologies Inc
Evergreen Environmental Group
Inficon

SEE AD ON PAGE 123, 141

Interlek Testing Services
Environmental Laboratories
International Technology Corp
J U M of North America Inc
KVB



Metro Environmental Optimal
Technologies Inc

DON'T OVERSTATE YOUR EMISSIONS!

ENERAC™ 3000 Series Credible Data for an Uncertain Environment.



Simplify your life.
Automatic features ensure
accurate reproducible data,
reducing both operational
and compliance risks.

- Auto Mass Emissions
✓ Velocity
✓ EPA-Method 2 **NEW!**
- Meets EPA-CTM-022
✓ Multi-Range
(10-5,000 PPM NOx)
✓ Auto Temperature Control
✓ Auto QA/QC
- Advanced SEM™ Sensors



For the information you need today, call 1-800-695-3637.
For continuous technical updates: www.enerac.com

1300 Shames Drive, Westbury, NY 11590
(516) 997-2100 • 1-800-695-3637 • Fax: (516) 997-2129
ENERAC and SEM are trademarks of their respective companies.



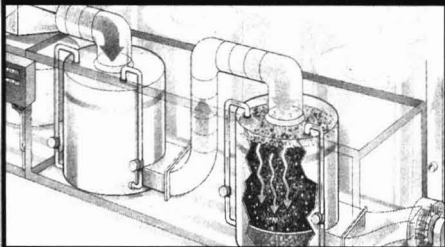
Circle 155 on card.

PRODUCTS/SERVICES

INNOVATION IN BIOFILTRATION



The Basys Biofilter Patented Process



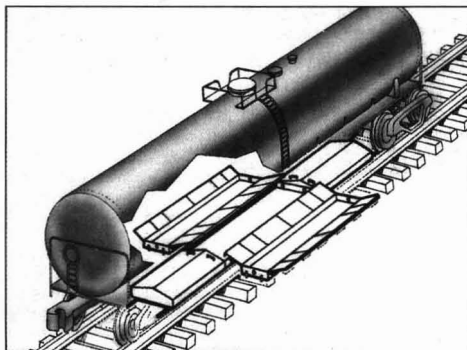
The Basys Biofilter is an expandable/modular air pollution control system for VOCs and odors. Microbial filter media destroys contaminants in air flows up to 120,000 ACFM. Features include:

- Modular Construction
- State Of The Art PLC
- Negative Pressure
- Low Capital/Operating Costs
- High Removal Rates
- Leased Demo Units Available

VISIT OUR NEW WEBSITE AT
www.basysystem.com

1345 NORTHLAND DR., MENDOTA HEIGHTS, MN 55120
800-254-5525 • FAX 612-683-8888

Railroad Track Spill Containment



The Ounce of Prevention to Preclude a Ton of Headaches!

Unique, Relocatable Spill Containment Pans with Rolling Raincovers.
Opens When You Need It and Closed and Locked When Not Needed.

Avoid Collecting Snow, Rainwater and Debris!

Lower Your Environmental Liability!

TRANS ENVIRONMENTAL SYSTEMS, Inc.

P.O. Box 40163
Cleveland, Ohio 44140

800-220-2466

216-871-3214
FAX 216-871-3414

Stack Emissions Testing

Pace Environmental Products Inc
Pacific Environmental Services Inc
Resochem Corp
Rosengarten, Smith
& Associates Inc
Ross Analytical Services Inc
TRC
Target Environmental Services

Stack Flow Meters

Baldwin Environmental Inc
Controlotron
KVB
Omega Engineering Inc
SEE AD ON PAGE 2, 133
Panametrics Inc

Standards

Accustandard Inc
Chem Service Inc

Design Compliance Assoc
EnviroNet LLC
Genium Publishing Corp
National Technical
Information Service

Restek Corp

SEE AD ON PAGE 56, 146
Scott Specialty Gases
Ultra Scientific
West Group
SEE AD ON PAGE 4, 111

Sterilizers

Barnstead/ThermoLine
BioSterile Technology Inc
Ozonia North America Inc
UVP Inc

Stormwater Monitoring

American Sigma Inc

Commonwealth Biomonitoring
Earth Data Inc
Eco Analysis Inc
Environmental Mitigation Group
Environmental Risk Ltd
Environmental Works Inc
Evans & Mitchell Inc/
The Safety Advisors



Global Water
HML Inc dba Hoosier
Microbiological Laboratory
HPC Inc
Hahn & Associates Inc
Hydrolab Corp
SEE AD ON PAGE 64, 126

Innovative Consultants Inc
Institute Environmental
Technologies Inc
Ionics Inc/Instrument Div
Iso Inc
Leggette, Brashears &
Graham Inc
Metropolitan Manufacturers
Association
Pacific Environmental
Services Inc
Patrick Engineering Inc
Ross Analytical Services Inc
SENTEX Systems Inc
SGS US Testing Co Inc
TRAK Environmental
Group Inc
Talem Inc
Taylor Technologies Inc
Thel-Mar Co
Tribble & Richardson

Sulfate/Sulfide Detectors

Gas Tech Inc

Sulfur Dioxide Detectors

Air Products & Chemicals Inc
California Analytical Instruments
Detector Electronics Corp
GE Co
General Monitors
Mil-Ram Technology Inc
US Filter/Lo-Cat
Zellweger Analytics
Zneotronics/Zsolomat

Sulfur Oxide Detectors

Advanced Pollution
Instrumentation Inc
Energy Efficiency Systems Inc
SEE AD ON PAGE 59, 157

Enmet Corp
Gas Tech Inc
RAE Systems Inc
Sierra Monitor Corp
US Filter/Wallace & Tiernan
US Industrial Products Co



Turner Designs

Stormwater Treatment

Abanaki Corp/Oil Skimmer Div
SEE AD ON PAGE 46, 152

BBS Corp
Brown & Caldwell
CSR Hydro Conduit
Conti Environmental Inc
Flo Trend Systems Inc
Great Lakes

Environmental Inc
SEE AD ON PAGE 84, 106

Hazen & Sawyer PC
Highland Tank &
Manufacturing Co
Holzmacher, McLondon
& Murrell PC
Hydro Quip Inc

Infiltrator Systems Inc
Landa Water
Cleaning Systems
Leggette, Brashears
& Graham Inc
Nielsen Inc
Oil Skimmers Inc

SEE AD ON PAGE 55, 145

PND Corp
Patrick Engineering Inc
RGF Environmental
Systems Inc
Rutgers University-Office of
Continuing Prof Educ



SRS Crisafulli Inc
Tri-State Environmental
Products & Equipment
US Filter Recovery Services
Unipure Environmental



Vortechs Inc
SEE AD ON PAGE 47, 158

Strainers

Acme Engineering Products Inc
Amiad Water Systems
Technologies
SEE AD ON PAGE 67, 100
Flomatic Valves
Hayward Industrial Products Inc
Hilliard Corp
Plast-O-Matic Valves Inc



Rosedale Products Inc
Royal Guard Corp
Technical Products & Services Inc

Suspended Solids Instrumentation



Automation Products Inc
Bio Science Inc
Danfoss-Instrument
Zellweger Analytics Inc

Sweepers, Air Sweepers



TYMCO Inc

Sweepers, In Plant Sweepers



TYMCO Inc

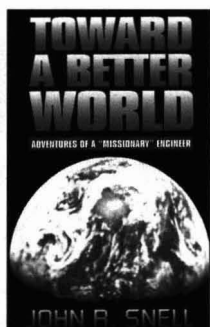
Sweepers, Truck Mounted, In Plant



TYMCO Inc

Tanks

A O Smith Engineered
Storage Products Co
Aero Power Unitized Fueler
Assmann Corporation of America
Baker Tanks Inc
Brown-Minneapolis Tank -
Div of ITEC Storage Systems
Buffalo Drilling Co Inc
Chem-tainer Industries
ConVault Inc
Delta Cooling Towers Inc
Environetics Inc
Environmental Fuel Systems
Technology
Environmental Works Inc
Evergreen Environmental Group
Fergus Power Pump Inc
Highland Tank
& Manufacturing Co
Infiltrator Systems Inc
Lexicon Environmental
Associates Inc
SEE AD ON PAGE 7, 135
MEGA Systems & Chemicals
MGS Inc
Metropolitan Manufacturers
Association
Petro-Steel



"Toward a Better World"

by John R. Snell.

Engineers will be entertained, educated and uplifted by these adventures. Written by a Harvard graduate with a doctorate in engineering, his true stories detail encounters with communist guerillas & man-eating tigers in China, avoiding wartime capture & death, and discovering the importance of listening to that "inner voice." Snell's consulting firm practiced in over 20 states and 25 developing countries. This captivating 250-page book can be purchased with a credit card for ONLY \$15.00.

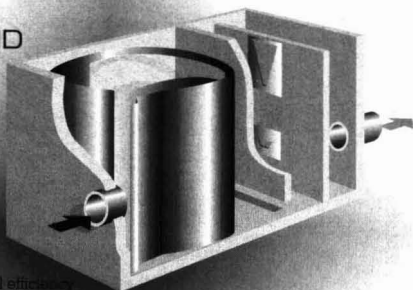
Order now. Call 800-917-BOOK.
Great for gifts, too! BE UPLIFTED.

Circle 157 on card.

Vortechs™

Stormwater Treatment System

**BREAKING
NEW GROUND**



- Low maintenance costs
- Over 80% net TSS removal efficiency
- Treatment capacities from 1.6 to 25 cfs
- High-performance design prevents pollutant resuspension & release
- Small footprint, quick installation
- Unsurpassed technical support



Vortechs, Inc. • 41 Evergreen Drive, Portland, Maine 04103
Ph 207.878.3662 • Fax 207.878.8507 • Online www.vortechs.com

- ▶ Watershed Protection
- ▶ Commercial/Residential Development
- ▶ Municipal/Roadways
- ▶ Industrial & Recycling Facilities

Test Equipment, Misc.

RMT Machinery Inc
Rain for Rent
Slosky & Co Inc
Temcor

Trumpf Power Tools

SEE AD ON PAGE 81, 167

Trusco Tank Inc
Water Works

TCLP

Associated Design &
Manufacturing Co
Forensic Analytical
Talem Inc
Thielsch Engineering Inc
Toxikon Corp

Telemetry Systems

Air Products & Chemicals Inc
Bristol Babcock Inc
Climatronics Corp
Dancer Communications Inc
Groundwater Recovery
Systems Inc

Hydrolab Corp

SEE AD ON PAGE 64, 126

Omega Engineering Inc

SEE AD ON PAGE 2, 133

Scantek Inc

telog
716-359-1110

Tellog Instruments

Telescoping Valves

HP
HALLIDAY PRODUCTS
407-298-4470

Halliday Products Inc
Jeffrey-Tropodyne

Temperature Instrumentation

Apex Instruments Inc
Athena Controls Inc
Bailey-Fischer & Porter Co
Climatronics Corp
Control Co
Davis Instruments
Dwyer Instruments Inc
Fluid Components Intl

Hydrolab Corp

SEE AD ON PAGE 64, 126

Jones Chromatography Inc
K C S Environmental Corp
Logic Beach Inc

Met One Instruments Inc

SEE AD ON PAGE 87, 162

Newport Electronics Inc

Omega Engineering Inc

SEE AD ON PAGE 2, 133

Omega-Vanzetti Inc
Onset Computer Corp
Petroleum Systems Services Corp
Scientific Sales Inc
Technical Products & Services Inc
Telatemp Corp
Terra Universal Inc

Testo Inc

SEE AD ON PAGE 85, 154

Williamson Corp

Test Equipment, Misc.

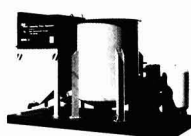
Advanced Concepts
& Design Inc
Automation Products Inc
Cole-Parmer Instrument Co
Furness Controls Inc
Haztech Systems Inc
Logic Beach Inc
Monarch Instrument
Myron L Co
Newport Electronics Inc
Occupational Training & Supply Inc



Taylor Environmental Products, Inc.



Model MV



Model CLLV



Model SDLV

Taylor Environmental Products, Inc. is committed to providing industry and business with the best solution to the problem of wastewater clean-up and recovery.

Taylor CPS 2000 Three Phase separation systems are specifically engineered to customer applications. They are very efficient and operator friendly with low maintenance costs.

Sanitary Sewer Discharge Systems	Closed Loop Recycle Systems
Surface Discharge Systems	Storm Water Run-Off Systems
By-Product Recovery Systems	pH Control Systems

Some operations using Taylor CPS 2000 oil-water-solids separation systems...

- Equipment Washdowns • Transportation • Manufacturing • Chemical Companies
- Engine Repair • Marine Applications • Construction • Steel Mills
- Equipment Rental Companies • Rendering • Mining Industry
- Food Processing • Agriculture By-Products • Government Facilities

TAYLOR ENVIRONMENTAL PRODUCTS, INC.

628 Old Robinson Road, Louisville, Mississippi 39339-9099
Phone (601) 773-3421 / Fax (601) 773-7139

Circle 160 on card.

MAXIMUM PUMP PERFORMANCE

MINIMUM PUMP MAINTENANCE

Pumpex submersible wet and dry-pit pumps move your toughest wastewater, sludges, and slurries without clogging or prematurely wearing down. Cost-effective, preventive maintenance features include guaranteed replacement mechanical seal cartridges, adjustable wear rings, and environmentally safe, closed loop dry-pit cooling systems.

More than 40 years of design and manufacturing experience back the full line of Pumpex submersible pumps. Call, write, or fax today for more information about the wastewater, sludge, or dewatering pump that matches your specific application.

PUMPEX

103A Molasses Hill Road, Lebanon, NJ 08833
(908) 730-7004 • FAX: (908) 730-7580



The Environmental, Health, and Safety Conference and Exposition

May 11-13, 1998
Research Triangle Park,
North Carolina

DISCOVER

new compliance strategies for water, air, ISO 14000, hazardous waste, emergency response, and other EH&S challenges.

INTERACT

with leaders in industry, government, and academia who will discuss national and global issues.

ACQUIRE

products and services to meet the challenges of the next millennium from the industry's top vendors.

REGISTER NOW

to take advantage of early-bird discounts and secure your spot at the must-attend conference for 1998. Visit <http://ercweb.com/summit98>, call 1-888-4ES-1998, fax (919) 469-4137, or e-mail bramos@ercweb.com for more information and to register.

Call 1-888-4ES-1998 today!

For information on exhibiting, call (919) 469-1585, ext. 223

Test Equipment, Misc.

Omega Engineering Inc

SEE AD ON PAGE 2, 133

Omega-Vanzetti Inc
Omegadyne Inc
Petroleum Systems Services Corp
Regin Hvac Products Inc
Scantek Inc

Strategic Diagnostics Inc

SEE AD ON PAGE 161

Taylor Technologies Inc
Visual Inspection Technologies Inc

Test Kits/Services

Chemetics Inc
Flomatic Valves
Hess Environmental Services
H F Scientific Inc



800-227-4224

Hach Co

Nalco Chemical Co

Omega Engineering Inc

SEE AD ON PAGE 2, 133

Orbeco Analytical Systems Inc
Strategic Diagnostics Inc

SEE AD ON PAGE 161

Taylor Technologies Inc
Zefon Analytical

TOC Detectors

Anatel Corp
H F Scientific Inc
Ionics Inc/Instrument Div
Isco Inc
Zellweger Analytics Inc

Tools

Victaulic Co of America

Total Carbon Detectors

Ionics Inc/Instrument Div



313-665-8201

Rosedale Products Inc

Total Nitrogen

Analizers

Brinkmann Instruments Inc
Energy Efficiency Systems Inc
SEE AD ON PAGE 59, 157

Total Oxygen Demand

Ionics Inc/Instrument Div

Total Sulfur Detectors

Hyde Consultants Inc

Toxic Gas Detectors

Bacharach Inc
Biosystems Inc
CEA Instruments Inc
Control Instruments Corp
EIT
Enmet Corp
Enviro Supply & Service Inc



800-321-0322

Foxboro Environmental
Gas Tech Inc
General Monitors
Industrial Scientific Corp
K & M Environmental Inc
Metrosonics Inc
Mil-Ram Technology Inc

PE Photovac

SEE AD ON PAGE 79, 144

Premier Safety & Service Inc
RAE Systems Inc
Scott Specialty Gases

Sierra Monitor Corp
US Industrial Products Co
Zellweger Analytics
Zneotronics/Zsolomat

Toxicological Services

American Aquatic Testing Inc
Commonwealth Biomonitoring
Dames & Moore Group
Dragun Corp
Eckenfelder Inc
Entrix Inc
Princeton-Somerset Group Inc
SGS US Testing Co Inc
Stonehill
Environmental Inc
Toxikon Corp

Training

Management Software

Abbottfield Industrial
Training Inc

American Institute of
Chemical Engineers
BNA Communications Inc
Corbus A Div of CMS Inc

Environmental Resource Center

SEE AD ON PAGE 85, 159

Environmental Software
Resource Guide
Genium Publishing Corp
Hands & Associates Inc

J J Keller & Associates Inc
SEE AD ON PAGE 86, 112

Knorr Associates
Quantum Compliance
Systems Inc

SEE AD ON PAGE 13, 131

Software Certification Institute
Spectrum Human Resource
Systems Corp

Water Technology
International Corp

Wixel

Training Services/Equipment

Training Services/ Equipment

Abbottfield Industrial Training Inc
Academy of Certified Hazardous
Materials Managers
Acculab Environmental Services Inc
Air & Waste Management Association
Aires Consulting Group Inc
American Institute of Chemical
Engineers
BEE-Line Software
BNA Communications Inc
Benchmark Environmental Corp
Center for Professional Advancement
Compliance Solutions
Occupational Trainers Inc
EOHSI-CET
Eco Services Inc
Enercon Services Inc
EnviroNet LLC
Envirogenics

Environmental Resource Center

SEE AD ON PAGE 85, 159

Environmental Resources

Management

Environmental Support Solutions

Environmental Systems &

Technologies Inc

Evans & Mitchell Inc/

The Safety Advisors

Excel Partnership Inc

SEE AD ON PAGE 36, 114

Geo-Environmental Solutions

Government Institutes Inc

GreenWare Environmental Systems Inc

Hands & Associates Inc

HazWaste Technologies Corp

Health & Hygiene/ELB

Hixson A/E Inc

IOUES-International Quality & Environmental Services

SEE AD ON PAGE 83, 155

J J Keller & Associates Inc

SEE AD ON PAGE 86, 112

J T Baker, A Div of Mallinckrodt

Baker Inc

Lakeshore Technical College

Lion Technology Inc

Midwest Center for

Occupational Health & Safety

NES Inc

NW Center for Occupational

Health & Safety

Network Environmental Systems Inc

New Environment Inc

Occupational Training & Supply Inc

Oklahoma State University

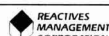
Omni Professional

Environmental Associates PA

PCCI Inc

Professional Analytical &

Consulting Services Inc



800-372-6742

Reactivities Management Corp

Roehrig & Associates Inc

Ronald L Beethe, CIH

SGS International Certification

Services Inc

SEE AD ON PAGE 35, 121

SRS Technologies

Safety Management

Resources Corp

Software Certification Institute

Trinity Consultants Inc

UAI Group LP

University of California

Extension-CMIL

University of Florida TREEO Center

University of Texas at Arlington/

Environmental Research

Victoria Group Inc

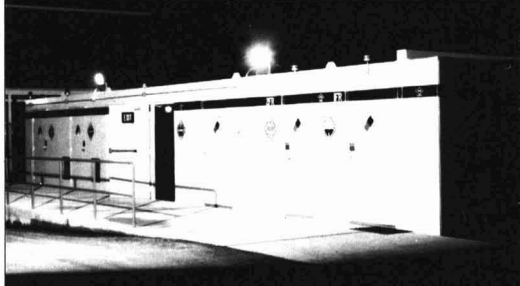
WCM Group Inc

Wald & Associates

Water Technology International Corp

Workplace Safety Products

Haz-Safe™ First with...



- **Surest** containment of chemical hazards in processing, mixing, filling, dispensing, testing, manufacturing, and storage - limiting liabilities and meeting all requirements and codes.
- **Strongest** prefab steel construction - continuously welded 1/4" thick tubular frame clad in thick plate up to 14' W x 72'L x 16'H, 150 lbs. ft.² blast and 4 hour fire rated. Porcelain enameled steel interior with 15 year warranty.
- **Slickest** modular assembly technology - **greatest** flexibility for unlimited size, expansion and site considerations.
- **Safest** protection - sloped floor spill alarm, dual ventilation switch over alarm, and fire rated shutters over explosion relief panels.



HAZ-SAFE
Buildings by Design

a division of
CID Associates, Inc.
PH: (724) 353-0300
FAX: (724) 353-0308
730 Ekastown Road
Sarver, PA 16055

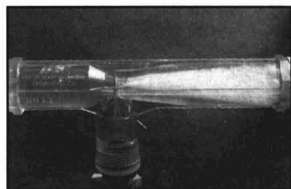


*U.S. Patent 5,191,942,
5,285,617, 5,301,479
Others Pending



Custom Approved Buildings

-AERATION-



**The Ultimate in
Mass Transfer
of
Gases**

Mazzei® Injectors

APPLICATIONS

ODOR CONTROL **H₂S REMOVAL**
BOD/COD REDUCTION **VOC REMOVAL**
OZONE INJECTION

- * **Very high Air Transfer Rate per HP**
- * **Designed for extreme ease of gas injection**
- * **Flow ranges of 1/2 gpm to 4,000 gpm**
- * **Durable Kynar or 316 SS construction**
- * **Technical Engineers on staff to assist you**



Setting the standard for efficiency

mazzei injector corporation

500 Rooster Drive • Bakersfield, CA 93307-9555, USA
Phone (805) 363-6500 • FAX (805) 363-7500
Internet <http://www.accelnet.com/mazzei/mazzei.html>

This is the test kit that Jack used, which enabled him to collect on-site data, which saved him a trip to the lab, which saved valuable time, which meant that the backhoe operator could continue excavating, which meant that the project was completed faster, which saved Jack money.

{This story was brought to you by SDI, the leader in rapid environmental testing. If you like happy endings, call 800-544-8881.}



Strategic Diagnostics Inc. brings together the expertise of the best-known names in rapid field testing. On-site immunoassay testing has just been simplified by combining, under SDI's roof, the most comprehensive line of proven field analytical products and technical support. For more information, call SDI at (800) 544-8881.



111 Pencader Drive • Newark, Delaware 19713
visit our website at: www.sdi.com



EnviroGard[®]

Circle 164 on card.

Training Videos

Training Videos

American Institute of Chemical Engineers
BNA Communications Inc
Environmental Resource Center
SEE AD ON PAGE 85, 159

Excel Partnership Inc
SEE AD ON PAGE 36, 114
Government Institutes Inc
Health & Hygiene/ELB
J J Keller & Associates Inc
SEE AD ON PAGE 86, 112

J T Baker,
A Div of Mallinckrodt Baker Inc
National Technical Information Service
New Environment Inc
Newport Electronics Inc
Omega Engineering Inc
SEE AD ON PAGE 2, 133
PCCI Inc
Savant Audiovisuals Inc
Workplace Safety Products

Transmitters

Bailey-Fischer & Porter Co
Bristol Babcock Inc
Dwyer Instruments Inc
Fuji Electric Corp of America
Gems Sensors Inc
Hersey Measurement Co
Omega Engineering Inc
SEE AD ON PAGE 2, 133
Water Specialties

Transportation

American Waste Services Inc



Eldredge Inc
Radiac Environmental Services

Rust Environment & Infrastructure

SEE AD ON PAGE 3, 115
Tribble & Richardson

Traps

Tracker Technologies

Trucks/Trailers

American Rolloff
Hertz Equipment Rental
MGS Inc
Medical Coaches Inc
Off-Road Conversions Inc
MATTRACK
Petro-Steel
Trans Environmental Systems Inc
SEE AD ON PAGE 81, 157

Turbidity Instrumentation

Chemetrics Inc
Danfoss-Instrumark
Engineered Systems & Design
Global Water
H F Scientific Inc



Hach Co
Hanna Instruments
Monitek Technologies Inc
Orbeo Analytical Systems Inc
Rosemont Analytical Inc/
Uniloc Division
SEE AD ON PAGE 72, 148

Wilkins-Anderson Co
Zellweger Analytics Inc

Turbidity Standards

H F Scientific Inc
Orbeo Analytical Systems Inc

Ultrafiltration Equipment

Automatic Filters Inc
Dynatec Systems Inc
Koch Membrane Systems Inc
Kohlmeier-Sanderson
LCI Corp
Niro Inc
Osmonics
Pall Corporation
Polylinx Separation Technologies Inc
Progressive Equipment Corp
Schumacher Filters America Inc
UPE Universal Process Equipment Inc
United States Filter Corp
World Water Systems Inc

Underground Storage Tank Equipment

Adirondack Environmental Associates Inc
Atlantic Screen & Mfg Inc
ConVault Inc
Highland Tank & Manufacturing Co
Rutgers University-Office of Continuing Prof Educ
Safety & Environmental Resources Inc
Trumpf Power Tools
SEE AD ON PAGE 81, 167

Trusco Tank Inc
Veeder-Root Co

Underground Storage Tank Leak Monitors

Arizona Instrument Corp
Environmental Fuel Systems
Environmental Maintenance Technology



Foxboro Environmental

Gems Sensors Inc

Incon Inc
Tracer Research Corp
SEE AD ON PAGE 68, 118
US Industrial Products Co
Veeder-Root Co

Vacuum Cleaning Equipment

Ametek-Regenerative Blower Group

Vacuum, Critical Filter

Pentek Inc

Valve Actuators/Operators

Flowserve Corp
Harmonic Drive Technologies
Hayward Industrial Products Inc
Hilliard Corp
Jamesbury
Jones Chromatography Inc
Plast-O-Matic Valves Inc
Therm-Omega-Tech Inc

Valve Positioners

Flowserve Corp
Harmonic Drive Technologies
Hayward Industrial Products Inc

Valve Replacement Parts

Flowserve Corp
Jamesbury
Plast-O-Matic Valves Inc

Valve Systems

Amiad Water Systems Technologies
SEE AD ON PAGE 67, 100

Asahi/America Inc
Bernad Inc
Flowserve Corp
Jamesbury
Plast-O-Matic Valves Inc
Therm-Omega-Tech Inc

Valves

Air Products & Chemicals Inc
Alicat Scientific Inc
Amiad Water Systems Technologies
SEE AD ON PAGE 67, 100

Asahi/America Inc
BOC Gases
Bernad Inc
Clean Gas Systems Inc
Dwyer Instruments Inc
Flexible Valve Corp
Flomatic Valves
Flowserve Corp
Fluid Controls Inc
George Fischer Inc
Hayward Industrial Products Inc
Hilliard Corp
Jamesbury
Lindsey Fabricators Inc
MKS Instruments-HPS Vacuum Products
Midland Metal Mfg Co
Plast-O-Matic Valves Inc
Powers Process Controls
Red Valve Co Inc
Tahoe Design Software
Technical Products & Services Inc
Therm-Omega-Tech Inc

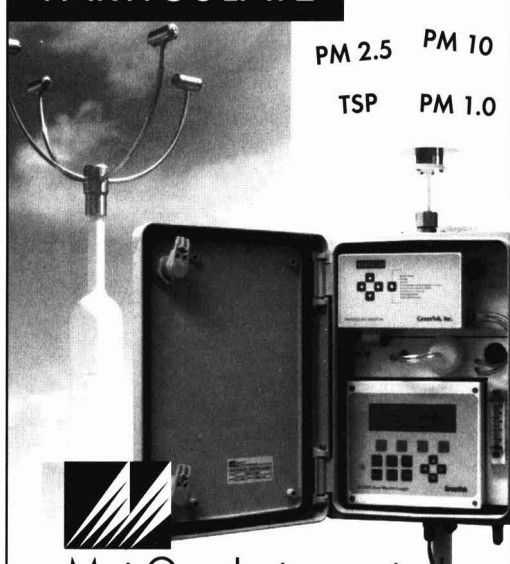


VICI Valco Instruments Co Inc
Vitalco Co of America

Vapor Recovery

Adirondack Environmental Associates Inc
Advanced Environmental Recycling Co LLC
Adwest Technologies Inc
SEE AD ON PAGE 28, 153
Amtec Inc

PARTICULATE



Met One Instruments, Inc.

1600 Washington Blvd., Grants Pass, Oregon 97526
Tel 541 471-7111 • Fax 541 471-7116
www.metone.com • metone@metone.com

METEOROLOGICAL

hnu hnu hnu hnu hnu hnu hnu hnu hnu hnu hnu

Need an automatic leak detector or an area monitor?

Call **hnu**

Monitor: EtO, Benzene, H₂S, NH₃, 1,3 butadiene, methylene chloride, hydrocarbons or other compounds, total or speciated, at ppb to ppm levels

- For process management
- To minimize worker exposure
- To reduce health & safety liabilities
- For compliance with government regulations



1973-1998
Twenty-Year
PIONEERS IN PHOTOIONIZATION AND
X-RAY FLUORESCENCE

FOR ADDITIONAL INFORMATION:

800-724-5600

hnu

HNU SYSTEMS, INC., 160 CHARLEMONT STREET, NEWTON, MA 02461-9987 USA
(617) 964-6690 • FAX: (617) 558-0056 • <http://www.hnu.com> • sales@hnu.com

VOC Removal Systems

Amistco Separation Products
Atlantic Fluidics Inc
Bisco Environmental
Edwards Engineering Corp
Groundwater Recovery Systems Inc
John Zink Co
REECO
RaySolv Inc
Schumacher Filters America Inc
Thermatrix Inc
Thiel Air Technologies
Vara Intl-Div of Calgon Carbon Corp
Westport Environmental Systems
Winston Manufacturing Corp

Variable Speed Drives

GE Co
Harmonic Drive Technologies

Vehicles, Off Road

Off-Road Conversions Inc-MATTRACK

Ventilation Equipment

Asahi America Inc
IFX
Neoterik Health Technologies Inc
New York Blower Co
Occupational Training & Supply Inc

Vents

Justrite Manufacturing Co

Vibration Instruments

Dancer Communications Inc
EPIC Inc
Monarch Instrument
Scantek Inc

Viscosity Instruments



Automation Products Inc
Brinkmann Instruments Inc
Petroleum Systems Services Corp

Wilkins-Anderson Co

VOC Removal Systems

ABB Air Preheater Inc

SEE AD ON PAGE 16, 136

Advanced Environmental Systems Inc

Advest Technologies Inc

SEE AD ON PAGE 28, 153

Allied Signal Environmental

Systems & Services

Amec Inc

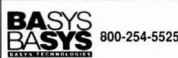
Ametek-Regenerative Blower Group



Ametek-Rotron Biofiltration

Anguil Environmental Systems Inc

B L Myers Bros Inc



Basys Technologies

SEE AD ON PAGE 85, 157

Bio-Reaction Industries Inc

Bisco Environmental

Carbtrol Corp

Dahl & Associates Inc

Delta Cooling Towers Inc



Dürr Environmental Inc

Edwards Engineering Corp

Ejector Systems Inc

Engelhardt Corp

Enviro Supply & Service Inc

Environmental Fuel Systems

Falmouth Products

Geotech Environmental Equipment Inc

Global Technologies



Specializing in the design of dewatering systems to eliminate industrial and municipal waste water sludge handling problems.

- Belt filter presses from 0.8 to 3 meters
- Filter presses
- Table thickeners
- Mobile & skid-mounted units
- SS & other special construction available



We offer laboratory and on-site pilot testing

Call us for all your dewatering needs

PHOENIX Process Equipment Co.
2402 Watterson Trail • Louisville, KY 40299
Phone: (502) 499-6198 • Fax: (502) 499-1079
E-Mail: phoenix@dewater.com

Rising to meet the need

Circle 142 on card.

Portable Tankage



Petro-Flex®
Aqua-Flex™
Chem-Flex™



- IDEAL FOR FUEL, WATER, WASTE, CHEMICALS & EMERGENCY SPILL CLEAN-UP
- 50 TO 100,000 GALLON CAPACITIES
- INSTANT HOLDING - FULLY COLLAPSIBLE
- USED BY ALL U.S. ARMED FORCES

ATL "FLEX TANKS":
THE ESSENTIAL HAZMAT TOOL ...
IN STOCK FOR FAST EMERGENCY RESPONSE

AERO TEC LABORATORIES INC.
TOLL FREE 800-526-5330

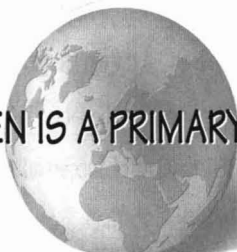
RAMSEY, NJ 07446-1251 USA

TEL: 201-825-1400 • FAX: 201-825-1962

e-MAIL: aerotec@cerf.net

AIChE Publications...Because, in the CPI,

GREEN IS A PRIMARY COLOR



Designing and running processes that reduce wastes and emissions is not only the right thing to do, it's also the smart thing...as good for the bottom line as it is for your community and the planet. AIChE publications can help, with titles like:

- *Environmental Progress*—a quarterly magazine that covers all aspects of pollution control, including air, water, and solid and liquid wastes.
- Environmental titles from *DECHEMA*, the German chemical engineering society, addressing such issues as industrial wastewater, and bioassays for soils.
- *The Environment: Air, Water, & Soil and Environmental Management and Pollution Prevention*—PEP Series books which compile the best articles from AIChE literature on critical industry issues.

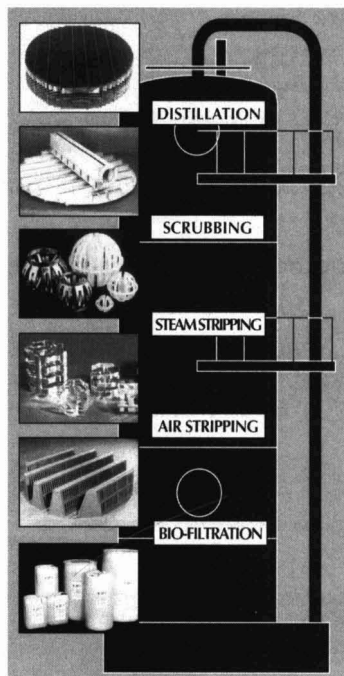
For more information on AIChE environmental products, call 1-800-242-4363 and request a copy of our Publications Catalog.

Circle 168 on card.

Circle 167 on card.

The Jaeger Advantage

When it Comes to Environmental Separations... We Don't Have to be Better than Jaeger, WE ARE JAEGER



The Jaeger Advantage is:

- The Best Engineers in the Field
- The Largest Number of Successful Applications
- Jaeger Tri-Packs®, the Standard of the Industry in Random Plastic Packings
- A Complete Line of Tower Internals
- Extensive Experience in Environmental and Chemical Applications
- A Responsive Service Attitude to OEMs, Consultants, and End Users



JAEGER

We are not the Largest, only the BEST Separations Company

JAEGER PRODUCTS, INC.

1611 Peach Leaf, Houston, TX. 77039

Phone: (713) 449 9500 or (800) 678 0345 FAX: (713) 449 9400

VOC Removal Systems



Goal Line Environmental Technologies

SEE AD ON PAGE 76, 130

Hi Temp Technology Corp
Huntington Environmental Systems
ILC Dover Inc

SEE AD ON PAGE 123, 141

Johnson Matthey
Environmental Products



Monsanto Enviro-Chem Systems
Munters Corporation-Zeol Division
NEEP Systems
New York Blower Co
Onron Enterprises



Process Technologies Inc

Prototech Co

SEE AD ON PAGE 29, 31, 145, 147

REECO
RaySolv Inc
Rocky Mountain Consultants Inc
Ross Air Systems
SBP Technologies Inc
Terra Systems Inc
Thermatrix Inc



Trinity Air Technologies
UPE Universal Process Equipment Inc



Vara Int-Div of Calgon Carbon Corp
Westport Environmental Systems
Wolverine (Massachusetts) Corp
SEE AD ON PAGE 80, 156

Waste Minimization

A B B Environmental Services Inc
August Mack Environmental Inc
Benchmark Environmental Corp
Brown, Vence & Associates Inc
Dynatec Systems Inc
EnviroNet LLC
Environmental Dimensions Inc
Environmental Liability Management Inc
Environmental Personnel Agency
Environmental Resources Center Inc
Environmental Resources Management
HDR Engineering Inc
Hands & Associates Inc
Harding Lawson Associates
Hixson A/E Inc
HydroQual Inc
Innovative Consultants Inc
International Technology Corp
J V Manufacturing Inc/"Cram-A-Lot"
JWB Environmental Engineering
Jacobs Environmental Inc
Koester Environmental Services Inc
MITI Manufacturing
McPhee Environmental Supply
Mercury Technologies Intl LP
Metropolitan Manufacturers Association
Miguel A Antonetti & Associates
Nalco Chemical Co
Philip ServicesCorp/
Industrial Services Group
Pollution Research & Technology Inc
Polylox Separation Technologies Inc
Raytheon Environmental &
Quality Programs



Rosedale Products Inc

Roy F Weston Inc
SAMSCO Inc
SEMCO
SSOE Inc
STC Remediation Inc
TNT Technology Co
Talem Inc
Terra Systems Inc
ToxGon Corp
UAI Group LP
US Filter Recovery Services
US Filter/JWI
United States Filter Corp
WES Corp
Waste Control Systems Inc
Water Technology International Corp
Westport Environmental Systems
Wixel
Zorbit Technologies Inc

Wastewater Treatment Systems

A B B Environmental Services Inc
Abanaki Corp/Oil Skimmer Div
SEE AD ON PAGE 46, 152

Aeromix Systems Inc
Allied Signal Environmental
Systems & Services
Amceec Inc

Amiad Water Systems Technologies
SEE AD ON PAGE 67, 100

Aqua-Chem Inc
Automatic Filters Inc
Automation Products Inc
BBS Corp

Babcock Water Engineering LP
SEE AD ON PAGE 47, 154

Bio Science Inc
Biothane Corp
Brown-Minneapolis Tank -
Div of ITEQ Storage Systems
Calgon Carbon Corp
ChemPump,

A Div of Crane Pumps & Systems
Chemical Lime Co

Chemtrac Systems Inc
Chlorinators Inc
Dürr Environmental Inc

Dynatec Systems Inc
EEC USA Inc
Eckentfelder Inc

Ecosorb International Inc
Environmental Works Inc

Envirotrol Inc
Flo Trend Systems Inc

Frontier Technology Inc
Fuji Electric Corp of America

Gemstone Environmental
General Carbon Corp

Great Lakes Environmental Inc
SEE AD ON PAGE 84, 106

HDR Engineering Inc
Hixson A/E Inc

Hudson Industries
Huntington Environmental Systems

Hydro Quip Inc
HydroCal Inc

HydroQual Inc
Infiltrator Systems Inc

Innovative Consultants Inc
Institute Environmental Technologies Inc

JWB Environmental Engineering
Jeffrey-Tropodyne

Koch Membrane Systems Inc
Komline-Sanderson

Landa Water Cleaning Systems
Lerma USA Inc

Martin Marietta
Magnesia Specialties

SEE AD ON PAGE 165

Maxon Industries Inc
Miox Corp

Mott Corp
Oil Skimmers Inc

SEE AD ON PAGE 55, 145

Pall Corporation
Penn Environmental & Remediation Inc

Phyto Works Inc

Pollution Research & Technology Inc
Polyionix Separation Technologies Inc
Progressive Equipment Corp
Purac Engineering
Research Products/Blankenship
Resource Management Group Inc
Roy F Weston Inc
SAMSCO Inc
SOMAT Corp
STC Remediation Inc
Sevenson Environmental Services Inc
TNT Technology Co
Tahoe Design Software

Taylor Environmental Products Inc
SEE AD ON PAGE 60, 159

Tribble & Richardson
US Filter Recovery Services
US Filter/Davco
US Filter/EMU Products

U.S. FILTER
JWI
800-245-3006

US Filter/JWI
US Filter/Jet Tech
US Filter/Lo-Cat
US Filter/Zimpro
Unipure Environmental
United States Filter Corp
Waste-Tech Inc
Water Technology
International Corp
Water Works
Watson-Marlow Inc
Western Filter Products/Osmonics
World Water Systems Inc

Water Conditioning Equipment

Automation Products Inc
B L Myers Bros Inc
ChemPump -
Div of Crane Pumps & Systems
Delta Cooling Towers Inc

ResinTech Inc
United States Filter Corp

Water Jetting Equipment

Atlantic Screen & Mfg Inc
Butterworth Jetting Systems Inc
Mincy Inc

Water Meters

Alicat Scientific Inc
Badger Meter Inc
Bernard Inc
Hersey Measurement Co
Omega Engineering Inc
SEE AD ON PAGE 2, 133

Progressive Equipment Corp
Water Specialties

Water Purification Systems

Aqua-Chem Inc
Automatic Filters Inc
Automation Products Inc
Barnstead/Thermolyne
Capital Controls Co Inc
Fuji Electric Corp of America
General Carbon Corp
Koch Membrane Systems Inc
Landa Water Cleaning Systems

**Martin Marietta
Magnesia Specialties**
800-648-7400

**Martin Marietta Magnesia
Specialties Inc**
SEE AD ON PAGE 165

Miox Corp
Osmonics
PCI-Wedeco
Environmental Technologies Inc
Pall Corporation
Progressive Equipment Corp
ResinTech Inc

R 313-665-8201

Rosedale Products Inc
UAI Group LP
Unifit Corp
Unipure Environmental
United States Filter Corp
Visual Light
Western Filter Products/Osmonics
World Water Systems Inc

Water Quality Instrumentation

ASOMA-WTC Engineering Inc
Advanced Concepts & Design Inc
Anatel Corp
Chemetrics Inc
Chlorinators Inc
G O Environmental Inc
GNM Inc
Geotech Environmental Equipment Inc
Global Water
H F Scientific Inc
HNU Systems Inc
SEE AD ON PAGE 81, 166

HACH
800-227-4224

Hach Co
Hanna Instruments
Hazen & Sawyer PC
Horiba Instruments Inc
Hydrolab Corp
SEE AD ON PAGE 64, 126
In-Situ Inc
Innovative Sensors Inc
Ionics Inc/Instrument Div
Lakewood Products/Osmonics
Monitek Technologies Inc
Myron L Co
OI Analytical

Orbeco Analytical Systems Inc
Orion Research Inc
Response Rentals
**Rosemount Analytical Inc/
Uniloc Division**
SEE AD ON PAGE 72, 148
Spectrex
Taylor Technologies Inc
Thielsch Engineering Inc

TURNER DESIGNS
Oil in Water Monitors
408-749-0994

Turner Designs
Wilks Enterprise Inc
Zellweger Analytics Inc

**Water/Wastewater
Treatment Equipment**
Abanaki Corp/Oil Skimmer Div
SEE AD ON PAGE 46, 152

AEROMIX
800-879-3677

Aeromix Systems Inc
AirSep Corporation-Industrial Div
Albax Inc
Allied Signal Environmental
Systems & Services
Ametek-Regenerative Blower Group

AMETEK
ROTRON TECHNICAL MOTOR DIVISION
914-246-3711

Ametek-Rotron Biofiltration
Aqua-Chem Inc
Automatic Filters Inc
BJM Corp
Babcock Water Engineering LP
SEE AD ON PAGE 47, 154

Calgon Carbon Corp
Capital Controls Co Inc
Carbtrol Corp

ChemPump,
A Div of Crane Pumps & Systems
Chemical Lime Co
Chemtrac Systems Inc
Chlorinators Inc
Cochrane Associates Inc
Delta Cooling Towers Inc
Dynatec Systems Inc
EEC USA Inc
Ecosorb International Inc
Enviro Quip Intl Inc
Envirotrol Inc
Flo Trend Systems Inc
Franklin Miller Inc
Frontier Technology Inc
Gemstone Environmental
Godwin Pumps of America Inc
Great Lakes Environmental Inc
SEE AD ON PAGE 84, 106

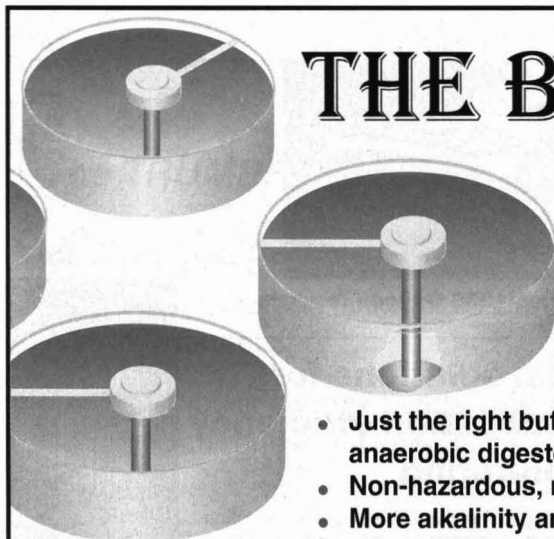
HP
HALLIDAY PRODUCTS
407-298-4470

Halliday Products Inc
Hydro Group Inc
Hydro Quip Inc
HydroCal Inc
ILC Dover Inc

SEE AD ON PAGE 123, 141
Infiltrator Systems Inc
Implant Enviro-Systems 2000 Inc
Isco Inc
JWC Environmental
Jeffrey-Tropodyne
Kem-Tron Technologies Inc
Koch Membrane Systems Inc
LCI Corp
Landa Water Cleaning Systems

**Martin Marietta
Magnesia Specialties**
800-648-7400

**Martin Marietta Magnesia
Specialties Inc**
SEE AD ON PAGE 165



THE BEST AID TO DIGESTION

FloMag® & MagneClear® Magnesium Hydroxide

- Just the right buffered pH control for aerobic and anaerobic digesters
- Non-hazardous, non-corrosive alkali that is safe to handle
- More alkalinity and pH control - pound for pound - than other alkalis

For all your water neutralization and metal removal requirements,
call Martin Marietta TODAY for magnesium-based solutions!

**Martin Marietta
Magnesia Specialties**

Martin Marietta Magnesia Specialties Inc.

P.O. Box 15470 ♦ Baltimore MD 21220-0470 ♦ 800-648-7400 ♦ FAX: 410-780-5777

Website: www.martinmarietta.com

Water/Wastewater Treatment Plants

Maxon Industries Inc
Megator Corp
Miox Corp
Nassel Engineering & Equipment Co Inc
Neptune Chemical Pump Co
Odor Management Technologies
Oil Skimmers Inc
SEE AD ON PAGE 55, 145

Onron Enterprises
Osmonics
Pall Corporation
Pennwalt India Ltd
Phipps & Bird
Powers Process Controls
Progressive Equipment Corp
Purac Engineering
Rain for Rent
Red Valve Co Inc
Ross Air Systems
SAMSCO Inc
SOMAT Corp
SRS Crisafulli Inc
Scarab Manufacturing & Leasing Inc
Slickbar Products Corp
Spectrex
TRAK Environmental Group Inc
Taylor Environmental Products Inc
SEE AD ON PAGE 60, 159

Temcor
Tristate Machinery Co
U F Strainrite
SEE AD ON PAGE 10, 116
UPE Universal Process Equipment Inc
US Filter Recovery Services
US Filter/Davco
US Filter/Envirex
US Filter/HPD

U.S. FILTER
JWI
800-245-3006

US Filter/JWI
US Filter/Stranco
US Filter/Wallace & Tieman
US Filter/Westates
US Filter/Zimpro
Unifilt Corp
Unipure Environmental
United States Filter Corp
Vortech Inc
SEE AD ON PAGE 47, 158
Warmister Fiberglass Co
Water Remediation Technologies
Water Technology International Corp
Water Works
Watson-Marlow Inc
Western Filter Products/Osmonics
World Water Systems Inc

Water/Wastewater Treatment Plants
Alvord, Burdick & Howson Engineers
Aqua-Chem Inc
BBS Corp
Babcock Water Engineering LP
SEE AD ON PAGE 47, 154
Beiling Consultants
Biothane Corp
Black & Veatch
Blasland, Bouck & Lee Inc
Brown & Caldwell
Dynatec Systems Inc
EEC USA Inc
Great Lakes Environmental Inc
SEE AD ON PAGE 84, 106
Hazen & Sawyer PC
Hydro Group Inc
Jacobs Environmental Inc
Kilham Associates Consulting Engineers
Metropolitan Manufacturers Association
Nielsen Inc
PCI-Wedeco Environmental Technologies Inc
Pennwalt India Ltd
Phyto Works Inc
RGF Environmental Systems Inc
Raytheon Environmental & Quality Programs
Rocky Mountain Consultants Inc
Roy F Weston Inc

Rust Environment & Infrastructure
SEE AD ON PAGE 3, 115
STC Remediation Inc
Svenson Environmental Services Inc
TNT Technology Co
Tahoe Design Software
US Filter/Davco
Unifilt Corp
Unipure Environmental
United States Filter Corp
Water Technology International Corp

Weather Monitoring
Air Resource Specialists Inc
Bay Gen Power USA Inc
Climatronics Corp
Control Co
Davis Instruments
EPIC Inc
Global Water
Intek Corp
Met One Instruments Inc
SEE AD ON PAGE 87, 162
Onset Computer Corp
Scientific Sales Inc
Undata America
Vaisala Inc

Weighing Equipment
BLH Electronics Inc
K-Tron America Inc
Millitronics Inc
SEE AD ON PAGE 66, 124
Ohaus Corp

Wetlands
ABR Inc
Central Wisconsin Engineers & Architects Inc
Commonwealth Biomonitoring Design Compliance Assoc
Dewberry & Davis
Dominion Environmental Consultants Inc
Earthsource Consulting Inc
Entrix Inc
HDR Engineering Inc
HPC Inc
Harding Lawson Associates
Hazen & Sawyer PC
Phyto Works Inc
Princeton-Somerseset Group Inc
Regulatory Compliance Management Inc
Resource Management Group Inc
Solar Testing Laboratories Inc
Stonehill Environmental Inc
Tribble & Richardson
United States Filter Corp
Van Note-Harvey Associates PC
WES Corp
Western Water Consultants Inc

Whole Effluent Toxicity Testing



610-434-9015

American Aquatic Testing Inc
Misc.
ABBS/Guard-Dogs
AMS Inc
APEX Environmental Services Inc
AQC Environmental Engineers
Accustandard Inc
Advanced Concepts & Design Inc
Advanced Dust Solutions Inc
AirSep Corporation-Industrial Div
Alaco Ladder Co
Altro Floors
American Institute of Chemical Engineers
American Rolloff
Ametek-Regenerative Blower Group
Anabab Inc
Andax Environmental Corp
B L Myers Bros Inc
BBS Corp
BCAM International Inc
BOC Gases
Badger Meter Inc
Benchmark Environmental Corp

Biothane Corp
Bird B Gone Inc
Bucks Fabricating
Carolina Global Maps
Chem Service Inc
Chemical Lime Co
Chums Ltd
Clean Gas Systems Inc
Commonwealth Biomonitoring
Con-Space Communications Inc
Conatech Consulting Group Inc
Corbus - Div of CMS Inc
Creative Office Systems Inc
D R Cordell & Associates Inc
DPIC Companies Inc
DSC Distributors Service Corp
Degussa Corp
Dragun Corp
EEC USA Inc
EH&S RegSmart
EMCO Flowmeters
Eastern Metal/USA-Sign
Engelhard Corp
EnviroExpo New England
EnviroNet LLC
Environmental Compliance Consultants Inc
Environmental Dimensions Inc
Environmental Maintenance Technology
Environmental Resources Center Inc
Environmental Risk Ltd
Environmental Solutions Inc
Falmouth Products
Fluid Components Intl
Fluid Controls Inc
Forensic Analytical
GSE Lining Technology Inc

gator pump, inc
800-735-9811

Gator Pump Inc
Geo-Environmental Solutions

GreenWare Environmental Systems Inc
Gregory Leonardos, Environmental Odor Consultant
Hobas Pipe USA Inc
Infincon
SEE AD ON PAGE 123, 141
Institute of Hazardous Materials Management
InterCorp Inc
Interface Design Inc
Intermark Inc Fine Watches
International Technology Corp
Justrite Mig Co
Kern-Tron Technologies Inc
LeapFrog Technologies Inc
Lec Technology Inc
Lockmasters
Louisville Ladder Corp
MEGA Systems & Chemicals
MGS Inc
MPC Environmental
Malcom Co-Leister Hot Air Systems
Maxon Industries Inc
Medic-Air Corp of America
Mercury Technologies Intl LP
Mid America Railway Supply Inc
Midwest Center for Occupational Health & Safety
Miguel A Antonetti & Associates
Mott Corp
N B Olewine Co Inc
NES Inc
PRO Scientific Inc
PacTec Inc
Pantera Environmental Consulting/Real Estate Recovery
Perma Pure Inc
Phyto Works Inc
Pneumatil Corp
Premier Safety & Service Inc
Process Packaging & Control Inc
Professional Analytical & Consulting Services Inc
Q Financial Group
Quality Assurance Associates

RadTech International North America
Raymar Medical Corp
Regin Hvac Products Inc
Research Products/Blankenship
Rubb Inc
SEMCOR
SIMCO Drilling Equipment Inc
SKC Inc
Sam Dick Industries
Sanford L Werner Consulting Geohydrologist
Svenson Environmental Services Inc
Skedco Inc
Sparing Instruments Inc
Specialized Cargo Handling Services
Spectrum Human Resource Systems Corp
Steele Inc
Sur-Loc Inc
Temcor
Thel-Mar Co
Therm-Omega-Tech Inc
Thomas Industries/Thomas Lighting
ToxGon Corp
US Filter/EMU Products
University of Florida TREEO Center
Veeder-Root Co
Victoria Group Inc
Visual Inspection Technologies Inc
Visual Light
Voss Technologies Inc

VOSS Products
800-247-6294

Voss Technologies Inc
W Gale Biggs Associates
WES Corp
Walter Grossman & Associates
Weldas Co
Whelen Engineering Co Inc
Williams Jewelry & Manufacturing Co
Workplace Safety Products



Series 1200 Oxygen Analyzer

total solutions for combustion efficiency monitoring

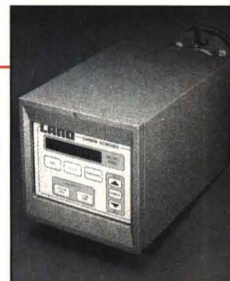
The most comprehensive range of combustion efficiency monitoring technology

LAND
combustion



the total efficiency concept

50
Years in Instrumentation
1947-1997



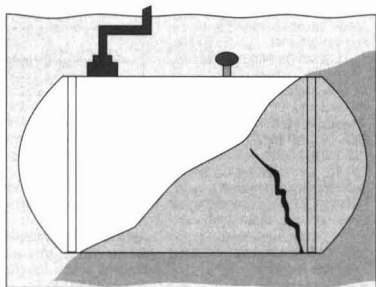
Model 9000 Carbon Monoxide Monitor

Division of Land Instruments International Inc.
2525B Pearl Buck Road, Bristol, PA 19007, USA
Telephone: 215 781-0810 Facsimile: 215 781-0798
Toll Free: (in USA) 800 922 9679
E-Mail: sales@land-combustion.com

DO YOU CUT UP UNDERGROUND STORAGE TANKS?

SAFELY? QUICKLY?

Cut this...



Damaged storage tank



TRUMPF Portable Nibbler

...With this!

The TRUMPF N1000 Pneumatic Nibbler

With TRUMPF's Pneumatic Nibbler, the N1000 can safely cut underground storage tanks for efficient repair or removal in half the time of traditional tools.

The 3/8" Nibbler cuts 90° bends, over welds and warped material. Portable and lightweight (only 30 lbs.) the N1000 can cut up to 5 feet per minute.

The N1000 is also ideal for: onsite fabrication, under water marine salvage, nuclear dismantling, I-beam splitting and coil line applications.

TRUMPF **TRUMPF Inc.**
Portable Power Tools
Farmington Industrial Park
Farmington, CT 06032

For free information:

Call: (860) 674-8226

Fax: (860) 676-2606

A
ABB Environmental Services Inc
 511 Congress St
 Portland, ME 04112
 Phone: 207-775-5401
 Fax: 200-341-0460
 Fax: 207-772-4762
 Web Site:
 www.abb.com/americas/usa/evs/index

AICE
 345 E 47th St
 New York, NY 10017
 Phone: 212-705-7661
 Fax: 212-705-3297
 SEE AD ON PAGE 59, 163

A O Smith Engineered Storage Products Co
 345 Harvestore Dr
 DeKalb, IL 60115
 Phone: 815-756-1551
 Fax: 815-756-7821
 Web Site: www.aquastore.com

A R Manufacturing & Supply Inc
 PO Box 94847
 Oklahoma City, OK 73143-4847
 Phone: 405-793-9294
 Fax: 405-793-3870
 Fax: 405-793-7174

 **313-973-3000**

A V Systems Inc
 4657 Platt Rd
 Ann Arbor, MI 48108-9726
 Phone: 734-973-3000
 Fax: 734-677-4480
 Web Site:
 www.mich.com/~avsys/mirs.htm
 E-Mail: avsys@mich.com
 SEE AD ON PAGE 29, 153

ABB Air Preheater Inc
 Andover Rd
 Wellsville, NY 14895
 Phone: 716-593-2700
 Fax: 716-593-2721
 SEE AD ON PAGE 16, 136

ABBS/Guard-Dogs
 2368 Eastman Ave Ste 13
 Ventura, CA 93003
 Phone: 805-642-0499
 Fax: 800-727-3647
 Fax: 805-642-5512
 Web Site: www.guard-dogs.com
 E-Mail: safety@guard-dogs.com

ABR Inc
 PO Box 80410
 Fairbanks, AK 99708-0410
 Phone: 907-455-6777
 Fax: 907-455-6781
 Web Site: www.w2.polarmet.com/~abr
 E-Mail: info@abrin.com

ABSPumps Inc
 140 Pondview Dr
 Mendon, CT 06450
 Phone: 203-238-2700
 Fax: 203-238-0738
 Web Site: www.abspumps.com

Ail Systems Inc
 455 Commack Rd
 Deer Park, NY 11729
 Phone: 516-595-6219
 Fax: 800-944-1180
 Fax: 516-595-5582
 Web Site: www.ail.com

AIM Safety USA Inc
 8403 Cross Park Dr Ste 1A
 Austin, TX 78754
 Phone: 512-832-5665
 Fax: 800-275-4246
 Fax: 512-832-2188
 Web Site: www.aimsafety.com

AMS Inc
 105 Harrison
 American Falls, ID 83411
 Phone: 208-226-2017

Natl: 800-635-7330
 Fax: 208-226-7280
 Web Site: www.ams-samplers.com
 E-Mail: ams@ams-samplers.com

APEX Environmental Services Inc
 PO Box 85337
 Westland, MI 48185
 Phone: 313-422-5500
 Fax: 313-422-7047

AQC Environmental Engineers
 5582 McFadden Ave
 Huntington Beach, CA 92649
 Phone: 714-379-8888
 Fax: 714-379-8894
 Web Site: www.aqc-inc.com
 E-Mail: jeffrey@cro-aqc.com

ASC Professionals
 15075 E 11 Mile Rd
 Roseville, MI 48066
 Phone: 810-771-0060
 Fax: 810-771-0098
 Web Site: www.ascpro.com

ASOMA-WTC Engineering Inc
 11675 Jollyville Rd
 Austin, TX 78759
 Phone: 512-258-6608
 Fax: 512-331-9123
 Web Site:
 www.thomasregister.com/asoma
 E-Mail: sales@asoma.com

ATC Associates Inc
 11356 Mathis Ave
 Dallas, TX 75229-3157
 Phone: 972-556-2204
 Fax: 972-556-1753
 Web Site: www.atc-enviro.com
 E-Mail: taylor74@atc-enviro.com

Abanaki Corp/Oil Skimmer Div
 17387 Munn Rd
 Chagrin Falls, OH 44023
 Phone: 440-543-7400
 Fax: 800-358-7546
 Fax: 440-543-7404
 Web Site: www.abanaki.com
 E-Mail: info@abanaki.com
 SEE AD ON PAGE 46, 152

Abbott Enterprises Inc
 901 W Fourth Ave
 Pine Bluff, AR 71601
 Phone: 870-535-4973
 Fax: 870-535-4973
 Fax: 870-535-4970
 E-Mail: tachtech@ipe.net

Abbottfield Industrial Training Inc
 10157 SW Barbur Blvd Ste 200C
 Portland, OR 97219-5910
 Phone: 503-244-0183
 Fax: 503-244-0324
 Web Site: www.abbottfield.com

Abresist Corp
 PO Box 38
 Urbana, IN 46990
 Fax: 800-348-0717
 Fax: 219-774-3832
 Web Site: www.abresist.com
 E-Mail: info@abresist.com

Academy of Certified Hazardous Materials Managers
 PO Box 1216
 Rockville, MD 20849
 Phone: 301-916-3306
 Fax: 800-437-0137
 Fax: 301-916-3308
 Web Site: www.gn.net/~achmm/
 E-Mail: jsachmm@aol.com

Acculab Environmental Services Inc
 2274 Hollywood Dr
 Jackson, TN 38305-4331
 Phone: 901-668-2008
 Fax: 901-668-2002
 Web Site: www.acculab.com
 E-Mail: mbutter@usit.net


Accustandard Inc
 25 Science Pk
 New Haven, CT 06511

Phone: 800-786-5290
 Natl: 203-422-5290
 Fax: 203-786-5287
 Web Site:
 www.connix.com/~accustnd
 E-Mail: usa@accustandard.com

Acme Engineering Products Inc
 2330 Champlain St Trimex Bldg
 Moores, NY 12588
 Phone: 518-236-5659
 Fax: 518-236-6941
 Web Site: www.hactory.com/acme
 E-Mail: excelpress@aol.com

Acton-Mickelson Environmental Inc
 5050 R J Mathews Pkwy
 El Dorado Hills, CA 95762
 Phone: 916-939-7550
 Fax: 916-939-7570

Adirondack Environmental Associates Inc
 9 Kastner Rd
 Plattsburgh, NY 12901
 Phone: 518-563-5726
 Fax: 800-257-3090
 Fax: 518-562-0789
 E-Mail: aea@together.net

 **303-698-9080**

Adrian Brown Consultants Inc
 333 W Bayaud Ave
 Denver, CO 80223
 Phone: 303-698-9080
 Fax: 303-698-9241
 Web Site: www.abch2o.com
 E-Mail: hydro@abch2o.com

Advanced Concepts & Design Inc
 77 Symons St
 Richland, WA 99352
 Phone: 509-943-1431
 Fax: 509-943-1431
 Web Site: www.rux.com/samplers
 E-Mail: srsomers@urx.com

Advanced Dest Solutions Inc
 11919 N Janzen Ave Ste 434
 Portland, OR 97217
 Phone: 360-546-0072
 Fax: 800-811-4366
 Fax: 360-546-0072
 Web Site: www.nodust.com
 E-Mail: ads@hargray.com

Advanced Environmental Recycling Co LLC
 3 Gold Mine Rd
 Flanders, NJ 07836
 Phone: 973-691-7300
 Fax: 800-554-2372
 Fax: 973-691-7326
 Web Site: www.aer-mti.com
 E-Mail: jgresk@aol.com

Advanced Environmental Systems Inc
 Oldfield Point Rd
 Elkton, MD 21921
 Phone: 410-620-1800
 Fax: 800-220-5330
 Fax: 410-620-1819
 SEE AD ON PAGE 30

Advanced Geoservices Corp
 Business Campus,
 Brandwine One Ste 202
 Chadds Ford, PA 19317-9676
 Phone: 610-558-3300
 Fax: 888-824-3992
 Fax: 610-558-2620
 Web Site: www.agcinfo.com
 E-Mail: agc@agcinfo.com

Advanced Pollution Instrumentation Inc
 6565 Nancy Ridge Dr
 San Diego, CA 92121-2251
 Phone: 619-657-9800
 Fax: 800-324-5190
 Fax: 619-657-9816
 E-Mail: sales@advpol.com

Adwest Technologies Inc
 1175 N Van Hornes Way
 Anaheim, CA 92806
 Phone: 714-632-9801
 Fax: 714-632-9812
 Web Site: www.adwestusa.com
 E-Mail: adwestusa@ioc.net
 SEE AD ON PAGE 28, 153

Adwest Technologies Inc
 VOC Control Division
 Wellsville, NY 14895
 Phone: 716-593-1405
 Fax: 716-593-6614
 Web Site: www.adwestusa.com
 E-Mail: adwestny@eznet.net
 SEE AD ON PAGE 28, 153

Aerology
 8 Custum Park Dr
 Old Saybrook, CT 06475
 Phone: 860-399-7941
 Fax: 800-826-6123
 Fax: 860-399-7049
 Web Site: www.aerology.com
 E-Mail: aerology@snet.net

Aero Tec Laboratories Inc
 Spear Rd Industrial Pk
 Ramsey, NJ 07446-1251
 Phone: 201-825-1400
 Fax: 201-825-1962
 SEE AD ON PAGE 83, 163

Aeromix Systems Inc
 2611 N Second St
 Minneapolis, MN 55411
 Phone: 612-521-8519
 Fax: 800-679-3677
 Fax: 612-521-1455
 Web Site: www.aeromix.com
 E-Mail:
 aeromix@aeromix.com

Affiliated Environmental Services Inc
 3606 Venice Rd
 Sandusky, OH 44870
 Phone: 419-627-1976
 Fax: 419-625-3753
 Web Site: www.irbq.com/aes
 E-Mail: aes@irbq.com

Ag Environmental Products
 9804 Pilmum Rd
 Lenexa, KS 66215
 Phone: 913-599-6691
 Fax: 800-599-9209
 Fax: 913-599-2121

Ag-Chem Equipment Co Inc
 5720 Smetana Dr
 Minnetonka, MN 55343
 Phone: 612-933-9006
 Fax: 612-933-7432
 Web Site: www.agchem.com
 E-Mail:
 bcameron@agchem.com

Air & Waste Management Association
 One Gateway Ctr 3rd Floor
 Pittsburgh, PA 15206
 Phone: 412-232-3444
 Fax: 412-232-3450
 Web Site: www.auma.org

Air Dimensions Inc
 1015 W Newport Ctr Ste 101
 Deerfield Beach, FL 33442
 Phone: 954-428-7333
 Fax: 800-423-6464
 Fax: 954-360-0987
 E-Mail: diavac@prodigy.net

Air Products & Chemicals Inc
 7201 Hamilton Blvd
 Allentown, PA 18195-1501
 Phone: 610-481-4911
 Fax: 610-481-3765
 Web Site: www.apci.com

Air Resource Specialists Inc
 1901 Sharp Point Dr Ste E
 Fort Collins, CO 80525
 Phone: 970-484-7941
 Fax: 970-484-3423
 Web Site: www.air-resource.com
 E-Mail: info@air-resource.com

AirSep Corp - Industrial Division
 260 Creekside Dr
 Buffalo, NY 14228-2075
 Phone: 716-691-0202
 Fax: 800-332-0303
 Fax: 716-691-8304
 Web Site: www.airsep.com
 E-Mail: marketing@airsep.com
 SEE AD ON PAGE 138

Aires Consulting Group Inc
 1550 Hubbard
 Batavia, IL 60510
 Phone: 630-879-3006
 Fax: 800-247-3799
 Fax: 630-879-3014
 Web Site:
 www.airesconsulting.com
 E-Mail: aires@compuserve.com

Airflow Systems Inc
 11370 Pagemill Rd
 Dallas, TX 75243
 Phone: 214-503-8008
 Fax: 800-818-6185
 Fax: 214-503-9596
 Web Site: www.airflowsystems.com
 E-Mail: airflow@cnramp.net

 **412-898-2323**

Airetech Inc
 1177 Pittsburgh Rd
 Valencia, PA 16059
 Phone: 724-898-2323
 Fax: 724-898-3377
 Web Site: www.airetechinc.com
 E-Mail: tgmbo@aol.com

Akzo Nobel Geosynthetics
 PO Box 1057
 Enka, NC 28628
 Phone: 704-665-5010
 Fax: 800-365-7391
 Fax: 704-665-5009

Alaco Ladder Co
 5167 G St
 Chino, CA 91710
 Phone: 909-591-7561
 Fax: 909-591-7565

Albany Intl High Performance Materials
 PO Box 9114
 Mansfield, MA 02048-9114
 Phone: 508-337-3008
 Fax: 888-PYROPEL
 Fax: 508-337-8550
 Web Site: www.albanyintl.com/hpml

Albax Inc
 100 Aniline Ave
 Holland, MI 49424
 Phone: 616-396-2411
 Fax: 800-535-2411
 Fax: 616-396-9426

Alfa Laval Sharples
 955 Mearns Rd
 Warminster, PA 18974-0556
 Phone: 215-443-4000
 Fax: 800-782-3751
 Fax: 215-443-4139
 Web Site: www.alfalaval.com

Alicat Scientific Inc
 2200 N Wilmot Rd
 Tucson, AZ 85712
 Phone: 520-290-6060
 Fax: 800-290-6060
 Fax: 520-290-0101
 E-Mail: alicat@rd.com

Allied Signal Environmental Systems & Services
 PO Box 1053
 Morristown, NJ 07962
 Phone: 973-455-5531
 Fax: 800-626-4974
 Fax: 973-455-5722
 Web Site:
 www.alliedsignal.com/em/envsys.htm
 E-Mail:
 environmental.systems@alliedsignal.com

Altro Floors
467 Forbes Blvd
South San Francisco, CA 94080
Tel: 800-382-0333
Fax: 415-583-9564
Web Site: www.altrofloors.com

Alvord, Burdick & Howson Engineers
20 N Wacker Dr
Chicago, IL 60606
Phone: 312-236-9147
Fax: 312-236-0692
E-Mail: alvordburd@aol.com

Amcec Inc
2525 Cabot Dr Ste 205
Lisle, IL 60532
Phone: 630-577-0400
Fax: 630-577-0401

Ameri-Shred Corp
PO Box 46130
Monroeville, PA 15146
Phone: 412-798-7322
Natl: 800-634-8981
Fax: 412-798-7329
Web Site: www.ameri-shred.com
E-Mail: info@ameri-shred.com

American Aquatic Testing Inc
1111 Union Blvd
Allentown, PA 18103
Phone: 610-434-9015
Fax: 610-434-2510
E-Mail: americanqua@aol.com

American Institute of Chemical Engineers
345 E 47th St
New York, NY 10017-2395
Phone: 212-705-7661
Natl: 800-242-4363
Fax: 212-705-7812
Web Site: www.aiche.org
E-Mail: loisd@aiche.org

American Orthopedic Appliance Group Inc
236 Main St
Cornwall, NY 12518
Phone: 914-534-9087
Fax: 914-534-4880
Web Site: www.icrwweb.com

American Rolloff
PO Box 5757
Trenton, NJ 08638
Phone: 609-588-5400
Fax: 609-588-4104
Web Site: www.americanrolloff.com

American Safety Insurance Group
1845 The Exchange Ste 200
Atlanta, GA 30339
Phone: 770-916-1908
Natl: 800-388-3647
Fax: 770-916-0618
SEE AD ON PAGE 62, 134

American Sigma Inc
11601 Maple Ridge Rd
Medina, NY 14103
Phone: 716-798-5580
Natl: 800-635-4567
Fax: 716-798-5599
Web Site: www.americansigma.com
E-Mail: americansigma.com

American Waste Services Inc
One American Way
Warren, OH 44464-5555
Phone: 330-856-8800
Fax: 330-856-8483

Ameron International Fiberglass Pipe Group
5300 Hollister Ste 111
Houston, TX 77040
Phone: 713-690-7777
Fax: 713-690-2842
Web Site: www.ameron-net.com

Ametek-Regenerative Blower Group
75 North St
Saugerties, NY 12477
Phone: 914-246-3401
Fax: 914-246-3802
Web Site: www.ametek.com

Ametek-Rotron Biofiltration
75 North St
Saugerties, NY 12477
Phone: 914-246-3711
Fax: 914-246-3802
E-Mail: heuckeroth@msn.com

Amiad Water Systems Technologies PO Box 5547
Oxnard, CA 93031-5547
Phone: 805-968-3323
Natl: 800-969-4055
Fax: 805-968-3313
SEE AD ON PAGE 67, 100

Amistco Separation Products
23221 W Hwy 6
Alvin, TX 77511
Phone: 281-331-5956
Fax: 281-585-1780

Analab Inc
Spring Hill Rd
Sterling, VA 18463-0034
Phone: 717-689-3919
Natl: 800-ANALAB-X
Fax: 717-689-9360
Web Site: www.analab1.com
E-Mail: info@analab1.com

Analytical Measurements Inc
621 Ramsey Ave
Hillside, NJ 07205
Phone: 908-964-8686
Natl: 800-635-5580
Fax: 908-964-6622

Anatel Corp
2200 Central Ave
Boulder, CO 80301
Phone: 303-442-5533
Natl: 800-373-0531
Fax: 303-447-8365
Web Site: www.anatel.com
E-Mail: info@anatel.com

Andax Environmental Corp
PO Box 144
Rutherford, NJ 07070
Phone: 973-227-7118
Natl: 800-999-1358
Fax: 973-227-1091
Web Site: www.andax.com
E-Mail: customerservice@andax.com
SEE AD ON PAGE 63

Andersen 2000 Inc
306 Dividend Dr
Peachtree City, GA 30269
Phone: 770-486-2000
Natl: 800-241-5424
Fax: 770-487-5066

Anguil Environmental Systems Inc
8855 N 55th St
Milwaukee, WI 53223
Phone: 414-365-6400
Fax: 414-365-6410
Web Site: www.anguil.com
E-Mail: sales@anguil.com

Apex Instruments Inc
125 Quantum St
Holly Springs, NC 27540
Phone: 919-557-7300
Natl: 800-892-3214
Fax: 919-557-7110
Web Site: www.apexinst.com
E-Mail: apexinst@mindspring.com

Aqua-Chem Inc
7800 N 113th St
Milwaukee, WI 53224
Phone: 414-359-0600
Fax: 414-577-2723
Web Site: www.aqua-chem.com
E-Mail: sales@aqua-chem.com

Arbillo Glove & Safety Products
10450 Drummond Rd
Philadelphia, PA 19154
Natl: 800-523-5367
Fax: 215-501-8122
Web Site: www.arbillo.com
E-Mail: arbillo@arbillo.com

Areo Power Unitized Fueler
103 Smithtown Blvd
Smithtown, NY 11787

Phone: 516-366-4362
Natl: 800-242-2736
Fax: 516-366-0905

Arizona Instrument Corp
4114 E Wood St
Phoenix, AZ 85040-1952
Phone: 602-470-1414
Fax: 602-470-1888
Web Site: www.azic.com
E-Mail: azi@azic.com

Art's Manufacturing & Supply
105 Harrison
American Falls, ID 83211
Phone: 208-226-2017
Natl: 800-635-7330
Fax: 208-226-7280
SEE AD ON PAGE 88

Arthur Technology Inc
PO Box 1236
Fond du Lac, WI 54936-1236
Phone: 920-922-6970
Natl: 800-328-3919
Fax: 920-922-1085

Asahi/America Inc
35 Green St
Malden, MA 02148
Phone: 781-321-5409
Natl: 800-343-3618
Fax: 781-321-4421
Web Site: www.asahi-america.com
E-Mail: asahi@asahi-america.com

Ashland Chemical Co
5200 Blazer Pkwy
Dublin, OH 43017
Phone: 614-790-3278
Natl: 800-545-8779
Fax: 614-790-4294
Web Site: www.ashchem.com/
E-Mail: csr@ashchem.com

Aspen Technology Inc
Ten Canal Pk
Cambridge, MA 02141-2201
Phone: 617-949-1000
Fax: 617-949-1719
Web Site: www.aspentech.com
E-Mail: info@aspentech.com

Assmann Corporation of America
300 N Taylor Rd
Garrett, IN 46738
Phone: 219-357-3181
Natl: 888-357-3181
Fax: 219-357-3738
Web Site: www.assmann-usa.com
E-Mail: sales@assmann-usa.com

Associated Design & Manufacturing Co
814 N Henry St
Alexandria, VA 22314-1619
Phone: 703-549-5999
Natl: 800-837-8257
Fax: 703-548-0919
E-Mail: pamv@erols.com

Athens Controls Inc
5145 Campus Dr
Plymouth Meeting, PA 19462
Phone: 610-828-2490
Natl: 800-782-6776
Fax: 610-828-7084
Web Site: www.athenaccontrols.com

Atlantic Fluidics Inc
21 S St
S Norwalk, CT 06854
Phone: 203-853-7315
Fax: 203-866-8218
Web Site: www.atlanticfluidics.com

Atlantic Screen & Mfg Inc
118 Broadkill Rd
Milton, DE 19968
Phone: 302-684-3197
Fax: 302-684-0643
Web Site: www.ce.net/atlantic

Auburn International Inc
PO Box 208 Danvers, MA 01923
Phone: 978-777-2450
Natl: 800-255-5008
Fax: 978-777-8820
Web Site: www.auburnintl.com

www.world.std.com/~aubum
E-Mail: aubum@world.std.com

August Mack Environmental Inc
8007 Castleton Rd
Indianapolis, IN 46250
Phone: 317-579-7400
Natl: 800-579-0770
Fax: 317-579-7410
E-Mail: amack@netdirect.net

Automatic Filencers Inc
2672 S La Cienega Blvd
Los Angeles, CA 90034
Phone: 310-839-2828
Natl: 800-336-1942
Fax: 310-839-6878
Web Site: www.tekleen.com
E-Mail: tekleen@aol.com

Automation Products Inc
3030 Maxroy St
Houston, TX 77008-6294
Phone: 713-869-0361
Natl: 800-231-2062
Fax: 713-869-7332

B A Liesch Associates Inc
13400 15th Ave N
Minneapolis, MN 55343
Phone: 612-559-1423
Natl: 800-338-7914
Fax: 612-559-2202
Web Site: www.liesch.com
E-Mail: liesch@liesch.com

B L Myers Bros Inc
PO Box 500
Glenmore, PA 19343
Phone: 610-942-2030
Natl: 800-947-5552
Fax: 610-942-2294
Web Site: www.blmyers.com

BBS Corp
1103 Schrock Rd Ste 400
Columbus, OH 43229
Phone: 614-888-3100
Fax: 614-888-0043

BCAM International Inc
1800 Walt Whitman Rd
Melville, NY 11747
Phone: 516-752-3550
Natl: 800-248-3746
Fax: 516-752-3558
Web Site: www.bcamergo.com
E-Mail: 74103.2413@compuserve.com

BDM International Inc
415 W Wall Ste 1818
Midland, TX 79701
Phone: 915-682-0008
Fax: 915-682-0028
Web Site: www.bdm.com
E-Mail: bdmid@apex2000.net

BEE-Line Software
PO Box 7348
Asheville, NC 28802
Phone: 704-258-1895
Fax: 704-258-1821
Web Site: www.beeline-software.com
E-Mail: info@beeline-software.com

BEM Systems Inc
8 Vreeland Rd
Florham park, NJ 07932
Phone: 973-301-0078
Fax: 973-301-0149
Web Site: www.bemsys.com

BFI
PO Box 3151
Houston, TX 77253
Phone: 281-870-7598
Fax: 281-870-7182

BJM Corp
PO Box 1138
Old Saybrook, CT 06475
Phone: 860-399-5937
Natl: 800-442-2562
Fax: 860-399-7784
Web Site: www.bjmcop.com
E-Mail: bjmcop@connix.com

BLH Electronics Inc
75 Shawmut Rd
Canton, MA 02021
Phone: 781-821-2000
Fax: 781-828-1451
Web Site: www.blh.com

BNA Communications Inc
9439 Key West Ave
Rockville, MD 20850
Phone: 301-948-0540
Natl: 800-217-2338
Fax: 301-294-6795
Web Site: www.bna.com/bnac
E-Mail: bnac@bna.com

BOC Gases
575 Mountain Ave
Murray Hill, NJ 07974
Phone: 908-464-8100
Natl: 800-742-4726
Fax: 908-464-3379
Web Site: www.boc.com

Babcock Water Engineering LP
15707 Rockfield Blvd Ste 333
Irvine, CA 92618-2829
Phone: 714-472-9110
Natl: 888-727-2277
Fax: 714-472-9210
Web Site: www.sbrass.com
E-Mail: wastewater@sbrass.com
SEE AD ON PAGE 47, 154

Bacharach Inc
625 Alpha Dr
Pittsburgh, PA 15238
Phone: 412-963-2000
Natl: 800-736-4666
Fax: 412-963-2091
Web Site: www.bacharach-inc.com
E-Mail: help@bacharach-inc.com

Badger Meter Inc
4545 W Brown Deer Rd
Milwaukee, WI 53223
Phone: 414-355-0400
Natl: 800-876-3837
Fax: 414-371-5980
Web Site: www.badgermeter.com

Bailey-Fischer & Porter Co
125 E County Line Rd
Warminster, PA 18974
Phone: 215-674-6000
Fax: 215-674-7183
Web Site: www.efpa.com/bfp
E-Mail: bfpmktg@bailey.com

Baker Tanks Inc
19618 S Susana Rd
Rancho Dominguez, CA 90221
Phone: 310-763-5766
Natl: 800-635-7349
Fax: 310-763-6476
Web Site: www.bakertanks.com
E-Mail: sales@bakertanks.com

Baldwin Environmental Inc
895 E Patriot Blvd Ste 107
Reno, NV 89511
Phone: 702-828-1300
Natl: 888-234-7366
Fax: 702-828-1305
E-Mail: bei.reno@ix.netcom.com

Bandit Industries Inc
6750 Millbrook Rd
Remus, MI 48340
Phone: 517-561-2270
Natl: 800-952-0178
Fax: 517-561-2273
Web Site: www.banditchippers.com
E-Mail: brushbandit@worldnet.att.net

Barneby & Sutcliffe Corporation
800-886-2272

Barneby & Sutcliffe Corp
PO Box 2526
Columbus, OH 46216-2526
Phone: 614-258-9501
Natl: 800-886-2272
Fax: 614-258-3464
Web Site: www.bsccarbons.com
E-Mail: activated-carbon@msn.com

Barnstead/Thermolyne

2555 Kesper Blvd
 Duquesne, IA 52001
 Phone: 319-556-2241
 Fax: 319-553-0039
 Fax: 319-589-0516
 Web Site:
www.barnsteadthermolyne.com
 E-Mail:
adv@barnsteadthermolyne.com

Barrett Centrifugals Inc
 PO Box 15059
 Worcester, MA 01615-0059
 Phone: 508-755-4306
 Fax: 508-228-6442
 Fax: 508-753-4805
 Web Site: www.barrettinc.com

Basic Concepts Inc
 1310 Harris Bridge Rd
 Anderson, SC 29621
 Phone: 864-224-7227
 Phone: 800-285-4203
 Fax: 864-224-7063
 E-Mail: bei@carol.net

Basys Technologies
 1345 Northland Dr
 Mendota Heights, MN 55120
 Phone: 612-452-3300
 Fax: 612-452-3300
 Fax: 612-683-8888
 Web Site: www.basystech.com
 E-Mail: jhorn@basystech.com
SEE AD ON PAGE 85, 157

Bay Gen Power USA Inc
 80 Amity Rd
 Warwick, NY 10990
 Phone: 914-258-5660
 Fax: 800-946-3234
 Fax: 914-258-3213
 E-Mail: www.freelplay@pair.com

Bayou City Pump Works Inc
 PO Box 23342
 Houston, TX 77228-3342
 Phone: 713-631-6451
 Fax: 713-631-1319
 Web Site:
www.texserv.com/bayoucity
 E-Mail: bcpumps@aol.com

Beco Engineering Co
 PO Box 443
 Oakmont, PA 15139
 Phone: 412-828-6080
 Fax: 800-486-BECO
 Fax: 412-828-6144
 Web Site: www.ibp.com/pit/beco/
 E-Mail: becoengco@aol.com

Behavioral Science Technology Inc
 417 Bryant Cir
 Ojai, CA 93023
 Phone: 805-646-0166
 Fax: 800-548-5781
 Fax: 805-646-0328
 Web Site: www.bsitech.com
 E-Mail: bstojai@bsitech.com

Beling Consultants
 1001 16th St
 Moline, IL 61265
 Phone: 309-757-9800
 Fax: 309-757-9812
 Web Site: www.beling.com
 E-Mail: moline@beling.com

Benchmark Environmental Corp
 4501 Indian School Rd NE Ste 105
 Albuquerque, NM 87110
 Phone: 505-262-2694
 Fax: 505-262-2698
 Web Site: www.becorp.com
 E-Mail: busedv@becorp.com

Bermad Inc
 4070 Leaverton Ct
 Anaheim, CA 92807
 Phone: 714-666-1100
 Fax: 800-821-6825
 Fax: 714-666-2533
 E-Mail: germad@germadusa.com

Bes-Pac Inc
 PO Box 2049
 Easley, SC 29641

Phone: 864-859-6030
 Phone: 800-726-1439
 Fax: 864-859-6414
 Web Site: www.bes-pac.com
 E-Mail: bespac@bespac.com

Best Manufacturing Co
 Edison St
 Menlo, CA 30731
 Phone: 706-862-2302
 Fax: 800-241-0323
 Fax: 706-862-2666
 Web Site: www.bestglove.com
 E-Mail: usa@bestglove.com

Betz Dearborn
 4636 Somerton Rd
 Treviso, PA 19053
 Phone: 215-355-3300
 Fax: 215-953-5524
 Web Site: www.betzdearborn.com

Bio Gro Div/Wheelabrator Water Technologies Inc
 180 Admiral Cochrane Dr Ste 305
 Annapolis, MD 21401
 Phone: 410-224-0022
 Fax: 410-224-0152
 Web Site: www.bio-gro.com

Bio Science Inc
 1550 Valley Center Pkwy Ste 140
 Bethlehem, PA 18017
 Phone: 610-627-3069
 Fax: 610-691-2170
 Web Site: www.bioscienceinc.com
 E-Mail: bioscience@aol.com

Bio-Reaction Industries Inc
 9673 SW Tualatin-Shenwood Rd
 Tualatin, OR 97062-8560
 Phone: 503-691-2100
 Fax: 503-691-8051

Bio-Systmes Corp
 PO Box 330
 Roscoe, IL 61073
 Phone: 608-365-9550
 Fax: 800-232-2847
 Fax: 608-365-9467
 Web Site: www.biosbugs.com

BioRenewal Technologies Inc
 2800 S Fish Hatchery Rd
 Madison, WI 53711
 Phone: 608-276-8980
 Fax: 888-276-8908
 Fax: 608-273-6989
 Web Site: www.biorenewal.com
 E-Mail: info@biorenewal.com

BioSterile Technology Inc
 4104 Merchant Rd
 Fort Wayne, IN 46818
 Phone: 219-489-2962
 Fax: 888-710-3792
 Fax: 219-489-3654
 Web Site: www.biosterile.com
 E-Mail: biosterile@aol.com



Bios International Corp
 230 West Pkwy Unit 1
 Pompton Plains, NJ 07444
 Phone: 973-839-6960
 Fax: 800-663-4977
 Fax: 973-839-7445
 E-Mail: info@biosintl.com
SEE AD ON PAGE 34, 142

Biosystems Inc
 651 S Main St
 Middletown, CT 06457
 Phone: 860-344-1079
 Fax: 800-711-6776
 Fax: 860-344-1068
 Web Site: www.biosystems.com

Biothane Corp
 2500 Broadway Dwr 5
 Camden, NJ 08104
 Phone: 609-541-3500
 Fax: 609-541-3366
 Web Site: www.biothane.com
 E-Mail: biothane@cybernet.net

Bird B Gone Inc
 24362 Via Madrugada
 Mission Viejo, CA 92692
 Phone: 714-472-3122
 Fax: 800-392-6915
 Fax: 714-472-3116
 Web Site: www.birdbgone.com
 E-Mail: nobirds@birdbgone.com

Bird Machine Co
 PO Box 9103
 S Walpole, MA 02071-9103
 Phone: 508-666-0400
 Fax: 508-668-6855

Bisco Environmental
 60 Stergis Way
 Dedham, MA 02026
 Phone: 781-461-1560
 Fax: 800-225-8006
 Fax: 781-461-1152
 Web Site: www.biscoenv.com
 E-Mail: info@biscoenv.com

Black & Veatch
 8400 Ward Pkwy
 Kansas City, MO 64114
 Phone: 913-458-2222
 Fax: 913-458-2934
 Web Site: www.bv.com
 E-Mail: info@bv.com

Blackhawk Environmental
 21W159 Hill Ave
 Glen Ellyn, IL 60137
 Phone: 630-469-4916
 Fax: 630-469-4896
 E-Mail: blackhawk@ameritech.net

Biasland, Bouck & Lee Inc
 PO Box 66
 Syracuse, NY 13214-0066
 Phone: 315-446-9120
 Fax: 315-449-0017
 Web Site: www.bbl-inc.com

Blue-White Ind
 14931 Chestnut St
 Westminster, CA 92683
 Phone: 714-893-8529
 Fax: 714-894-9492
 Web Site: www.bluewhite.com
 E-Mail: bluewhite@msn.com

Boelter & Yates Inc
 1300 Higgins Rd Ste 301
 Park Ridge, IL 60068
 Phone: 847-692-4700
 Fax: 847-692-3127
 E-Mail: info@boelter-yates.com

Boiler & Burner Systems
 16031 Bloomfield St Ste 5
 Los Alamitos, CA 90720
 Phone: 562-598-4204
 Fax: 562-430-0036



Bonding & Insurance Specialists Inc
 717 S Wells
 Chicago, IL 60607
 Phone: 312-427-2951
 Fax: 800-346-1031
 Fax: 312-427-4581
 Web Site: www.bisa-inc.com
 E-Mail: rstilla@enteract.com

Brant Luebbe Inc
 1025 Busch Pkwy
 Buffalo Grove, IL 60089-4516
 Phone: 847-520-0700
 Fax: 847-520-0855

Brinkmann Instruments Inc
 PO Box 1019
 Westbury, NY 11590-0207
 Phone: 516-334-7500
 Fax: 800-645-3050
 Fax: 516-334-7506
 Web Site: www.brinkmann.com
 E-Mail: info@brinkmann.com

Bristol Babcock Inc
 1100 Buckingham St
 Watertown, CT 06795

Phone: 860-945-2200
 Fax: 800-395-5497
 Fax: 860-945-2213
 Web Site: www.bristolbabcock.com

Brooks Rand Ltd
 3950 6th Ave NW
 Seattle, WA 98107
 Phone: 206-632-6206
 Fax: 206-632-6017
 E-Mail: brl@brl.seanet.com

Brown & Caldwell
 3480 Buskirk Ave
 Pleasant Hill, CA 94523
 Phone: 510-937-9010
 Fax: 510-937-9026
 Web Site: www.browncaldwell.com
 E-Mail: solutions@brwnclaid.com

Brown Bear Corp
 PO Box 28
 Corning, IA 50841
 Phone: 515-322-4220
 Fax: 515-322-3527
SEE AD ON PAGE 55, 149

Brown, Vance & Associates Inc
 120 Montgomery St Ste 1000
 San Francisco, CA 94104
 Phone: 415-434-0900
 Fax: 415-956-0220
 E-Mail: bva-sf@brownvance.com

Brown-Minneapolis Tank, A Div of ITEC Storage Systems
 3017 N 35th St
 Birmingham, AL 35207
 Phone: 205-841-0403
 Fax: 205-841-0479

Bryan Boiler
 PO Box 27
 Peru, IN 46970
 Phone: 765-473-6651
 Fax: 765-473-3074
 Web Site: www.bryanbuilders.com
 E-Mail: bryanboilers@iqwest.net

Buchart-Horn Inc
 PO Box 15040
 York, PA 17405-7040
 Phone: 717-852-1400
 Fax: 800-274-2224
 Fax: 717-852-1401
 Web Site: www.bh-ba.com
 E-Mail: corpinfo@bh-ba.com

Bucks Fabricating
 3547 Perry Hwy
 Hadley, PA 16130
 Phone: 724-253-3322
 Fax: 800-233-0867
 Fax: 724-253-3863
 Web Site:
www.nauticom.net/www/bucks
 E-Mail: bucks@nauticom.net

Buffalo Drilling Co Inc
 10440 Main St
 Clarence, NY 14031
 Phone: 716-759-7821
 Fax: 716-759-7823
 E-Mail: bdcbwp@aol.com

Bureau of National Affairs
 1250 23rd St Rm 4-344M
 Washington, DC 20037
 Phone: 202-785-7119
 Fax: 202-785-7176
SEE AD ON PAGE 25, 103

Burns & McDonnell Waste Consultants Inc
 9400 Ward Pkwy
 Kansas City, MO 64114
 Phone: 816-333-8787
 Fax: 816-822-3463
 Web Site: www.burnsmcd.com

Business & Legal Reports
 39 Academy St
 Madison, CT 06443-1513
 Phone: 203-318-0000
 Fax: 203-245-0483

Butterworth Jetting Systems Inc
 3721 Lapas Dr

Houston, TX 77023
 Phone: 713-644-3636
 Fax: 800-231-3628
 Fax: 713-644-3106
 E-Mail: mktg@butterworth.com

C B P Engineering Corp

185 Plumpton Ave
 Washington, PA 15301
 Phone: 412-229-1180
 Fax: 800-468-1180
 Fax: 412-229-1185
 Web Site: www.cbpengeering.com
 E-Mail: cbpsa@aol.com

CAE Instrument Rental

500 W Wood St
 Palatine, IL 60067
 Phone: 847-991-3300
 Fax: 847-934-8511
 Web Site: www.cleanair.com
 E-Mail: cae@cleanair.com

CDP Corp

77 Industrial Park Rd
 Plymouth, MA 02360
 Phone: 508-747-5558
 Fax: 800-443-1920
 Fax: 508-747-6333
 Web Site: www.cdf-liners.com

CDR Environmental Inc

PO Box 2023
 Russellville, AR 72811
 Phone: 501-968-5837
 Fax: 800-844-5837
 Fax: 501-968-2157

CEA Instruments Inc

16 Chestnut St
 Emerson, NJ 07630
 Phone: 201-967-5660
 Fax: 201-967-8450
 Web Site: www.ceainstr.com
 E-Mail: ceainstr@aol.com

CINC

3535-B Arrowhead Dr
 Carson City, NV 89705
 Phone: 702-885-5080
 Fax: 800-380-2462
 Fax: 702-885-5087
 Web Site: www.cinc-co.com
 E-Mail: cinc@cinc-co.com

CK Software Inc

210 N Higgins St 334
 Missoula, MT 59802
 Phone: 406-721-2606
 Fax: 406-721-4225
 Web Site: www.cksoftware.com
 E-Mail: drider@cksoftware.com

CNA/Schinnerer

Two Wisconsin Cir
 Chevy Chase, MD 20815-7022
 Phone: 301-961-9800
 Fax: 301-951-5444
 Web Site: www.planetaec.com
 E-Mail: info@schinnerer.com
SEE AD ON PAGE 73, 140

CPI Electronic Publishing

8399 E Indian School Rd
 Scottsdale, AZ 85251
 Phone: 602-994-4560
 Fax: 800-808-3372
 Fax: 602-994-4456
 Web Site: www.federalregister.com
 E-Mail: sales@citation.com

CSR Hydro Conduit

16701 Greenspoint Pk Dr Ste 350
 Houston, TX 77060
 Fax: 800-909-7763
 Fax: 281-872-5709
 Web Site: www.csrstormceptor.com

Calgon Carbon Corp

400 Calgon Carbon Dr
 Pittsburgh, PA 15205
 Phone: 412-787-6700
 Fax: 800-422-7266
 Fax: 412-787-6324
 Web Site: www.calgoncarbon.com
 E-Mail: ccc-info@calgoncarbon.com

California Analytical Instruments
1238 W Grove Ave
Orange, CA 92665
Phone: 714-974-5560
Natl: 800-959-0959
Fax: 714-921-2531

Capital Controls Co Inc
3000 Advance Ln
Colmar, PA 18915
Phone: 215-997-4000
Fax: 215-997-4062
Web Site: www.capitalcontrols.com
E-Mail: marketing@capitalcontrols.com

Carboline Co
350 Hanley Industrial Ct
St Louis, MO 63144
Phone: 314-644-1000
Fax: 314-644-4617
Web Site: www.carboline.com
E-Mail: mrktg@carboline.com

Carbrol Corp
51 Riverside Ave
Westport, CT 06880
Phone: 203-226-5642
Natl: 800-242-1150
Fax: 203-226-5322

Carhartt Inc
PO Box 600
Dearborn, MI 48121
Phone: 313-271-8460
Natl: 800-833-3118
Fax: 313-271-6428
Web Site: www.carhartt.com

Carolina Global Maps
563 S Evans St
Greenville, SC 27634
Phone: 919-757-2511
Natl: 800-248-6277
Fax: 800-321-6277
Web Site: www.lbagroup.com
E-Mail: cgmaps@lbagroup.com

Carson Geologic & Environmental Inc
PO Box 1818
Capitola, CA 95010
Phone: 408-475-2520

Carter, Darnell & Grubbs Engineers Inc
1840 US Hwy 29 N
Andalusia, AL 36420
Phone: 334-222-9431
Natl: 800-222-4234
Fax: 334-222-4580
E-Mail: cdg@alaweb.com

Center for Professional Advancement
144 Tices Ln
E Brunswick, NJ 08816
Phone: 732-238-1600
Fax: 732-238-9113
Web Site: www.cfpa.com/
E-Mail: info@cfpa.com

Central Wisconsin Engineers & Architects Inc
PO Box 107
Weston, WI 54476
Phone: 715-359-9400
Natl: 800-261-5707
Fax: 715-355-4199
E-Mail: genwieng@dwave.net

Chapman Inc
PO Box 608
Atlantic Highlands, NJ 07716
Phone: 732-291-7773
Natl: 800-836-8087
Fax: 732-291-7776

Chem Pruf Door Co
Brownsville Campus Bldg 1000
Brownsville, TX 78523
Phone: 956-544-1000
Natl: 800-531-7407
Fax: 956-544-7943
Web Site: www.chem-pruf.com
E-Mail: info@chem-pruf.com

Chem Service Inc
660 Tower Ln
West Chester, PA 19380-1965

Phone: 610-692-3026
Natl: 800-452-9994
Fax: 610-692-8729
Web Site: www.chemservice.com
E-Mail: marketing@chemservice.com

Chemtainer Industries
361 Neptune Ave
W Babylon, NY 11704
Phone: 516-661-8300
Natl: 800-275-2436
Fax: 516-661-8209
Web Site: www.chemtainer.com
E-Mail: sales@chemtainer.com

ChemPump, A Div of Crane Pumps & Systems
175 Titus Ave
Warrington, PA 19038
Phone: 215-343-6000
Fax: 215-343-8543
E-Mail: chempump@bcatlantic.net

Chemetrics Inc
Route 28
Calverton, VA 20135
Phone: 540-788-9026
Natl: 800-356-3072
Fax: 540-788-4856
Web Site: www.chemetrics.com
E-Mail: prodinfo@chemetrics.com

Chemical Information System
810 Glenaeles Ct Ste 300
Towson, MD 21218
Phone: 410-321-8440
Natl: 800-CIS-USER
Fax: 410-296-0712
Web Site: www.exmol.com/prods/cis/
E-Mail: cisupport@oxmol.com

Chemical Lime Co
3700 Hulen
Fort Worth, TX 76107
Phone: 817-732-8164
Natl: 800-365-6724
Fax: 817-732-8564
Web Site: www.chemicallime.com
E-Mail: dgalcon@chemicallime.com

Chemtrac Systems Inc
6991 Peachtree Industrial Blvd
Bldg 600
Norcross, GA 30092
Phone: 770-449-6233
Natl: 800-442-8722
Fax: 770-447-0889
Web Site: www.chemtrac.com
E-Mail: chemtrac@mindspring.com

Cherokee Instruments Inc
PO Box 910
Holly Springs, NC 27504
Phone: 919-552-0554
Natl: 800-399-4236
Fax: 919-552-3991

Chlorinators Inc
4125 SW Martin Hwy Ste 2
Palm City, FL 34990-5524
Phone: 561-288-4854
Fax: 561-287-3238
E-Mail: chlorine@aol.com

Chums Ltd
PO Box 950
Hurricane, UT 84737
Phone: 435-635-9831
Natl: 800-222-2486
Fax: 435-635-4752
Web Site: www.chumsltd.com
E-Mail: chums@chumsltd.com

Claymore Engineering
1308 Valle Vista Dr
Fullerton, CA 92831-1944
Phone: 714-870-4521

Clayton Group Services Inc
91650 Gardenbrook Rd Ste 155
Nori, MI 48375
Phone: 248-344-8550
Natl: 800-562-8307
Fax: 248-344-0229
Web Site: www.claytonenv.com
E-Mail: claymtaki@aol.com

Clean Environment Equipment
1133 Seventh St
Oakland, CA 94607
Phone: 510-891-0880
Natl: 800-537-1767
Fax: 510-444-6789
Web Site: www.cee.com
E-Mail: sales@cee.com

Clean Gas Systems Inc
160-2 Remington Blvd
Ronkonkoma, NY 11779
Phone: 516-467-1600
Fax: 516-467-1688
Web Site: www.cgsco.thomasregister.com
E-Mail: cgsco@aol.com

CleanOX Environmental Services Inc
17 Watchung Ave
Chatham, NJ 07928
Phone: 973-701-1288
Fax: 973-635-0751
Web Site: www.cleanox.com
E-Mail: fcgh73a@prodigy.com
SEE AD ON PAGE 60, 155

Climatronics Corp
140 Wilbur Pl
Bohemia, NY 11716
Phone: 516-567-7300
Fax: 516-567-7585
Web Site: www.climatronics.com
E-Mail: sales@climatronics.com

Cochrane Associates Inc
236 Huntington Ave
Boston, MA 02115
Phone: 617-247-0444
Natl: 800-487-3266
Fax: 617-247-2785
Web Site: www.environmentline.com
E-Mail: cochrane@environmentline.com

Cole-Parmer Instrument Co
625 E Bunker Ct
Vernon Hills, IL 60061
Phone: 847-549-7600
Natl: 800-323-4340
Fax: 847-247-2929
Web Site: www.coleparmer.com
E-Mail: info@coleparmer.com

Columbus Instruments
950 N Hague Ave
Columbus, OH 43204-2121
Phone: 614-276-0861
Natl: 800-669-5011
Fax: 614-276-0529
Web Site: www.colinst.com
E-Mail: 75144.2413@compuserve.com

Commonwealth Biomonitoring
7256 Company Dr
Indianapolis, IN 46237
Phone: 317-887-5855
Fax: 317-887-8641
Web Site: www.trader.com/users/5012/0614/water
E-Mail: water-quality@tcon.net

Compliance Solutions Occupational Trainers Inc
7120 E Orchard Rd Ste 140
Englewood, CO 80111
Phone: 303-694-2534
Natl: 800-711-2706
Fax: 303-694-4487
Web Site: www.csregs.com
E-Mail: hazwoper@pop.net

Computational Mechanics Inc
25 Bridge St
Billerica, MA 01821
Phone: 978-667-5841
Fax: 978-667-7582
Web Site: www.compmech.com
E-Mail: cmnia@ix.netcom.com

Computer Guidance Corp
4742 N 24th St Ste 300
Phoenix, AZ 85258
Phone: 602-468-7575
Natl: 888-361-4551
Fax: 602-468-7580
Web Site: www.computer-guidance.com
E-Mail: lsmith@computer-guidance.com

Computer Instruments Corp
1000 Shames Dr
Westbury, NY 11590
Phone: 516-876-8400
Fax: 516-876-9153

Con-Space Communications Inc
PO Box 1540
Blaine, WA 98231-1540
Natl: 800-546-3405
Fax: 800-546-3410
Web Site: www.con-space.com
E-Mail: info@con-space.com

ConVault Inc
4109 Zeering Rd
Denair, CA 95316
Phone: 209-632-7571
Natl: 800-222-7099
Fax: 209-632-4711
Web Site: www.convault.com
E-Mail: ast@convault.com

Conatex Consulting Group Inc
287 N Linderberg Blvd Ste 208
Creve Coeur, MO 63141-7849
Phone: 314-995-9767
Fax: 314-995-9766

Consilium Metritape Inc
59 Porter Rd
Littleton, MA 01460-1431
Phone: 978-486-9800
Fax: 978-486-0170

Contec Systems Industrial Corp
262 King St
Pottstown, PA 19464
Phone: 610-326-3235
Fax: 610-326-3238
E-Mail: contec@aol.com

Conti Environmental Inc
3001 S Clinton Ave
South Plainfield, NJ 07080
Phone: 908-561-9025
Fax: 908-754-3283
Web Site: www.conticorp.com

Control Co
308 W Edgewood
Friendswood, TX 77546
Phone: 281-482-1714
Fax: 281-482-9448
Web Site: www.control13.com
E-Mail: info@control13.com

Control Instruments Corp
25 Law Dr
Fairfield, NJ 07004
Phone: 973-575-9114
Fax: 973-575-0013
Web Site: www.controlinstruments.com
E-Mail: sales@controlinstruments.com

Controlotron
155 Plant Ave
Hauppauge, NY 11788
Phone: 516-231-3600
Natl: 800-275-8479
Fax: 516-231-3334
Web Site: www.controlotron.com
E-Mail: sales@controlotron.com

Conversion Technology Inc
330 Holcomb Bridge Rd Ste 250
Norcross, GA 30092
Phone: 770-263-6330
Fax: 770-263-8348
Web Site: www.conversion-tech.com
E-Mail: cti@conversion-tech.com

Corbus, A Div of CMS Inc
206 Line Rd
Kennett Square, PA 19348
Phone: 610-444-5691
Natl: 800-524-7096
Fax: 610-444-6461
Web Site: www.corbus.com
E-Mail: sales@corbus.com

Corporate Environmental Ltd
PO Box 798
Crystal Lake, IL 60039-0798
Phone: 815-455-6070
Fax: 815-455-0124

Corrosion Control Intl LLC
30 Beach St
Seymour, CT 06483
Phone: 203-888-7662
Fax: 203-888-7720
Web Site: www.corrosioncontrol.com
E-Mail: info@corrosioncontrol.com

Cosysco Inc
PO Box 4837
Walnut Creek, CA 94596
Phone: 510-947-5756
Fax: 510-930-8472

Creative Office Systems Inc
2470 Estand Way
Pleasant Hill, CA 94523
Phone: 510-686-6355
Natl: 800-400-7787
Fax: 510-686-8469
E-Mail: info@creativeoffice.com

Creative Waste Management Inc
PO Box 137
Folcroft, PA 19032
Phone: 610-586-5000
Fax: 610-586-5080

Crouse Enterprises Inc
400 Penn Center Blvd Ste 600
Pittsburgh, PA 15235
Phone: 412-823-8200
Fax: 412-823-9234
Web Site: www.crouse.com
E-Mail: cei@crouse.com

Custodis
Rt 22 W & Station Rd
Branchburg, NJ 08876
Phone: 908-685-4900
Fax: 908-685-4092

Cytac Industries Inc
Five Garret Mountain Plz
West Paterson, NJ 07424
Phone: 973-357-3100
Fax: 973-357-3331
Web Site: www.cytac.com

D L Adams Associates Ltd Consultants in Acoustics
970 N Kalaheo Ave Ste A311
Kailua, HI 96734
Phone: 808-254-3318
Fax: 808-254-5295
Web Site: www.dlaa.com

D R Cordell & Associates Inc
95 W Butler Ave
Chalfont, PA 18914-3015
Phone: 215-822-9345
Fax: 215-822-2596
Web Site: www.cordellmfg.com
E-Mail: sales@cordellmfg.com

DNV
3805 Crestwood Pkwy Ste 200
Duluth, GA 30096
Phone: 770-279-0001
Fax: 770-279-0282
SEE AD ON PAGE 77, 139

DPIC Companies Inc
2959 Monterey-Salinas Hwy
Monterey, CA 93940
Phone: 408-649-5522
Natl: 800-227-4284
Fax: 408-649-0346
Web Site: www.dpic.com
E-Mail: info@dpic.com

DSC Distributors Service Corp
1751 S Carlos Ave
Ontario, CA 91761
Phone: 909-947-0101
Natl: 800-DSC-ONLY
Fax: 909-923-0852
E-Mail: dsconly@compuserve.com

Dahl & Associates Inc
4390 McMenemy St
St Paul, MN 55127-6004
Phone: 612-490-2905
Natl: 800-747-5325
Fax: 612-490-3777
E-Mail: dahl@minn.net

Dakota Software Corp
7 Tobey Village Office Plk
Pittsford, NY 14534
Phone: 716-381-8710
Fax: 716-381-1614
Web Site: www.dakotasoft.com
E-Mail: info@dakotasoft.com

Dames & Moore Group
911 Wilshire Blvd Ste 700
Los Angeles, CA 90017
Phone: 213-996-2200
Fax: 213-996-2290

Dancer Communications Inc
649 South Ave Bldg 6
Secane, PA 19018
Phone: 610-543-8066
Fax: 610-543-2151

Danfoss-Instrumark
1124 Wrigley Way
Milpitas, CA 95035-5418
Phone: 408-262-0717
Fax: 408-262-3610
E-Mail: instrumark@best.com

Data Electronics USA Inc
22961 Triton Way Ste E
Laguna Hills, CA 92653-1230
Phone: 714-452-0750
Natl: 800-9-LOGGIER
Fax: 714-452-1170
Web Site: www.dataaker.com
E-Mail: deusa@dataaker.com

DataTest Inc
6850 Hibbs Ln
Levittown, PA 19057
Phone: 215-943-0668
Fax: 215-547-7973
Web Site: www.home.earthlink.net/~datatest
E-Mail: datatest@earthlink.net

Davis Instruments
3465 Diablo Ave
Hayward, CA 94545
Phone: 510-732-9229
Natl: 800-678-3669
Fax: 510-732-9188
Web Site: www.davisnet.com
E-Mail: info@davisnet.com

Decade Software Co
1218 W Paul Ave
Fresno, CA 93711
Phone: 209-271-2890
Natl: 800-372-3632
Fax: 209-271-2892
Web Site: www.decadesoftware.com
E-Mail: kevinelane@decadesoftware.com

Degussa Corp
65 Challenger Rd
Ridgely Park, NJ 07660
Phone: 201-641-6100
Fax: 201-807-3200
E-Mail: degussa.com

Delta Cooling Towers Inc
134 Clinton Rd
Fairfield, NJ 07004-2970
Phone: 973-227-0300
Fax: 973-227-0458
Web Site: www.deltacooling.com
E-Mail: deltacooling@worldnet.att.net
SEE AD ON PAGE 42

Design Compliance Assoc
PO Box 9134
Newport Beach, CA 92658-9134
Phone: 714-640-6059
Fax: 714-640-0982
E-Mail: 102341.2030@compuserve.com

Detector Electronics Corp
6901 W 110th St
Minneapolis, MN 55438
Phone: 612-941-5665
Natl: 800-765-3473
Fax: 612-829-8705
Web Site: www.detrnics.com
E-Mail: detronics@detronics.com

Dewberry & Davis
8401 Arlington Blvd
Fairfax, VA 22031
Phone: 703-849-0100
Fax: 703-849-0103
Web Site: www.dewberry.com
E-Mail: feberle@dewberry.com

Dexsil Corp
1 Hamden Park Dr
Hamden, CT 06517
Phone: 203-288-3509
Fax: 203-248-6523

Dialogic Communications Corp
381 Riverside Dr Ste 300
Franklin, TN 37064
Phone: 615-790-2882
Natl: 800-723-3207
Fax: 615-790-1329
Web Site: www.dccusa.com

Direct Safety Co Inc
2005 W 14th St Ste 132
Tempe, AZ 85281
Phone: 602-968-7009
Natl: 800-528-7405
Fax: 602-760-2975

Dominion Environmental Consultants Inc
729 Thimble Shoals Blvd Ste 1-B
Newport News, VA 23606
Phone: 757-599-7501
Fax: 757-599-7509
E-Mail: dominion@ AOL.com

Donley Technology
PO Box 152
Colonial Beach, VA 22443
Phone: 804-224-9427
Natl: 800-201-1595
Fax: 804-224-7958
Web Site: www.donleytech.com
E-Mail: donleytech@donleytech.com

Dragun Corp
30445 Northwestern Hwy #260
Farmington Hills, MI 48334
Phone: 248-932-0228
Fax: 248-932-0618

Drexelbrook Engineering Co
205 Keith Valley Rd
Horsham, PA 19044
Phone: 215-674-1234
Fax: 215-674-2731
Web Site: www.drexelbrook.com
E-Mail: deinfo@drexelbrook.com

Durr Environmental Inc
14492 Sheldon Rd Ste 300
Plymouth, MI 48170
Phone: 313-207-8500
Fax: 313-207-8930
E-Mail: durrenv@de.durr-usa.com

Dustvent Inc
100 W Fay St
Addison, IL 60101
Phone: 630-543-9007
Natl: 800-KLEENUP
Fax: 630-543-1407

Dwyer Instruments Inc
PO Box 373
Michigan City, IN 46361
Phone: 219-879-8000
Fax: 219-872-9057
Web Site: www.dwyer-inst.com
E-Mail: info@dwyer-inst.com

Dyna-Fid Inc
131 Wallace Ave Ste 2
Downtown, PA 19335
Phone: 610-873-7824
Fax: 610-873-9506

Dynalene Heat Transfer Fluids
PO Box A
Coplay, PA 18037
Phone: 610-262-9686
Fax: 610-262-7437
Web Site: www.dynalene.com
E-Mail: lutlisa@aol.com

Dynatec Systems Inc
909 Jacksonville Rd
Burlington, NJ 08016

Phone: 609-387-0330
Fax: 609-387-2060
E-Mail: dynatec@erols.com

Dziurman/Associates PC
620 S Main St
Clawson, MI 48017-2016
Phone: 248-288-8300
Natl: 800-541-1135
Fax: 248-288-8804

E Data Resources Inc
3530 Post Rd
Southport, CT 06490
Phone: 203-255-6606
Natl: 800-352-0050
Fax: 800-231-6802
Web Site: www.edrmet.com
E-Mail: drescher@edrmet.com

E R I I S
505 Huntmar Park Dr Ste 200
Herndon, VA 20170
Phone: 703-834-0600
Fax: 703-834-0606
SEE AD ON PAGE 17, 132

ECOM America Ltd
3075 Breckinridge Blvd Ste 420
Duluth, GA 30096
Phone: 770-806-0220
Fax: 770-806-0120
SEE AD ON PAGE 75, 137

ECS Inc
520 Eagleview Blvd
Exton, PA 19341
Phone: 610-458-0570
Natl: 800-ECS-1414
Fax: 610-458-8667
Web Site: www.ecsinc.com

EEC USA Inc
3101 Pacific Coast Hwy #403
Newport Beach, CA 92663
Phone: 714-574-2970
Fax: 714-515-8950
Web Site: www.eecusa.com
E-Mail: eecusa@ix.netcom.com

EFA Technologies Inc
1611 Twentieth St
Sacramento, CA 95814
Phone: 916-443-8842
Fax: 916-443-3759

EH&S RegSmart
PO Box 2166
Frazier, PA 19355
Phone: 610-280-4551
Natl: 888-241-6390
Fax: 610-280-4550
Web Site: www.regsmart.com
E-Mail: info@regsmart.com

EIT
251 Welsh Pool Rd
Exton, PA 19341
Phone: 610-363-5450
Natl: 800-872-8008
Fax: 610-363-0167
Web Site: www.wit-online.com
E-Mail: eit@wit-online.com

EKTO Manufacturing Corp
PO Box 449
Sanford, ME 04073
Phone: 207-324-4427
Fax: 207-324-4667

EMAT-Environmental Management & Technology Expo
7500 Old Oak Blvd
Cleveland, OH 44017
Phone: 216-891-2695
Natl: 800-225-4569
Fax: 216-894-2741
Web Site: www.esonline.com
E-Mail: jbalogh@advanstar.com

EMCO Flowmeters
600 Diagonal Hwy

Longmont, CO 80501
Phone: 303-651-0550
Fax: 303-678-7152
E-Mail: marketing@emccflow.com

ENSR
35 Nagog Pk
Acton, MA 01720
Phone: 978-635-9500
Natl: 800-722-2440
Fax: 978-635-9180
Web Site: www.ensr.com
E-Mail: askensr.com

EOHSI-CET
45 Knightsbridge Rd Brookwood Plz II
Piscataway, NJ 08854-3923
Phone: 732-235-5062
Fax: 732-235-5133
Web Site: www.eohsi.rutgers.edu/cet
E-Mail: cet@eohsi.rutgers.edu

EPIC Inc
654 Madison Ave
New York, NY 10021
Phone: 212-309-7039
Fax: 212-308-7266

EQ-The Environmental Quality Co
36255 Michigan Ave
Wayne, MI 48184
Phone: 734-329-8000
Natl: 800-592-5489
Fax: 734-329-8140
Web Site: www.eqonline.com

ERD Environmental Inc
6205 Rt 611
Pipersville, PA 18947
Phone: 215-766-7230
Natl: 888-735-4373
Fax: 215-766-2051
Web Site: www.erdwaste.com

ERS Services Inc
140 Berkus St
Pottstown, PA 19464
Phone: 610-970-7033
Fax: 610-970-7218
Web Site: www.byl.com/pa/ersservices/
E-Mail: ersserv@bellatlantic.net

Eagle Technology Inc
10500 N Port Washington Rd
Mequon, WI 53092
Phone: 414-241-3845
Natl: 800-388-3268
Fax: 414-241-5248
Web Site: www.eagleone.com
E-Mail: eagle@execpc.com

Earth Data Inc
924 Springdale Dr
Exton, PA 19341
Phone: 610-524-9466
Fax: 610-524-9482
E-Mail: earthdat@chesco.com

Earth-Soft
78 Harvard Rd
Littleton, MA 01460
Phone: 508-486-9057
Fax: 508-486-9057
SEE AD ON PAGE 74, 102

Earthsource Consulting Inc
5701 Judith Dr
Lincoln, NE 68517
Phone: 402-785-3213
Fax: 402-742-4917
E-Mail: skaplan@unlinfo.unl.edu

Easi-Set Ind
PO Box 300
Midland, VA 22728
Phone: 540-439-8911
Natl: 800-547-4045
Fax: 540-439-1232
Web Site: www.easi-set.com/bldg

Eastern Metal/USA-Sign
1430 Sullivan St
Elmira, NY 14901-1695
Phone: 607-734-2295
Natl: 800-872-7446
Fax: 607-734-8783
E-Mail: info@usa-sign.com

Eckenfelder Inc
227 French Landing Dr
Nashville, TN 37228
Phone: 615-255-2288
Fax: 615-256-8332
Web Site: www.eckenfelder.com
E-Mail: eckeninc@edge.net

Eco Analysis Inc
221 Matilija St Ste A
Ojai, CA 93023
Phone: 805-646-1461
Fax: 805-646-4141

Eco Services Inc
PO Box 82
Silver City, NM 89428
Phone: 702-847-7777
Natl: 800-290-3949
Fax: 702-847-7768
E-Mail: eco@nevadaweb.com

Eco Solv Inc
19260 SW 100th Ct
Tuslatin, OR 97062
Phone: 503-691-9703
Natl: 800-657-4047
Fax: 503-692-3516

Ecology & Environment Inc
368 Pleasant View Dr Buffalo
Cort R
Lancaster, NY 14086-1397
Phone: 716-684-8060
Natl: 800-577-4799
Fax: 716-684-0844
Web Site: www.ecolen.com
E-Mail: nrs02@ene.com

Ecosorb International Inc
17171 Park Row Ste 320
Houston, TX 77084
Phone: 281-579-3949
Natl: 800-551-9956
Fax: 281-579-3732
Web Site: www.ecosorb.com
E-Mail: absorbent@ecosorb.com

Edwards Engineering Corp
101 Alexander Ave
Pompton Plains, NJ 07444
Phone: 973-835-2800
Natl: 800-526-5201
Fax: 973-835-2805
Web Site: www.edwards-eng.com
E-Mail: info@edwards-eng.com

Ehrsman Products, ABB Air Preheater Inc
PO Box 339
Abilene, KS 67410
Phone: 785-263-4300
Fax: 785-263-3932

Ejector Systems Inc
910 National Ave
Addison, IL 60101
Phone: 630-543-2214
Natl: 800-OIL-LEAK
Fax: 630-543-2014

Eldredge Inc
898 Fernhill Rd
West Chester, PA 19380
Phone: 610-436-4749
Fax: 610-430-6948
Web Site: www.eldredgeco.com
E-Mail: eldinc@tula-e.enercon.com

Enercon Services Inc
10820 E 45th St Ste 100
Tulsa, OK 74146-3814
Phone: 918-665-7693
Fax: 918-665-7232
Web Site: www.enercon.com
E-Mail: john@tula-e.enercon.com

Enercon Services Inc
2775 Villa Creek Ste 120
Dallas, TX 75234-7420
Phone: 972-484-3854
Fax: 972-484-8835
Web Site: www.enercon.com
E-Mail: charles@dale-enercon.com

Energy Efficiency Systems Inc
1300 Shames Dr
Westbury, NY 11590
Phone: 516-997-2100
Natl: 800-895-3637
Fax: 516-997-2129
Web Site: www.ennerac.com
E-Mail: ees@ennerac.com
SEE AD ON PAGE 59, 157

Engelhard Corp
101 Wood Ave
Iselin, NJ 08830
Phone: 732-205-5000
Fax: 732-205-6146
Web Site: www.engelhard.com

Engineered Systems & Design
119A Sandy Dr
Newark, DE 19713
Phone: 302-456-0446
Natl: 800-328-0516
Fax: 302-456-0441
E-Mail: esd@esdinc.com

Enmet Corp
PO Box 979
Ann Arbor, MI 48106
Phone: 734-761-1270
Fax: 734-761-3220
Web Site: www.enmet.com
E-Mail: info@enmet.com

Entech Instruments Inc
2265 Ward Ave
Simi Valley, CA 93065
Phone: 805-527-5939
Natl: 800-555-8034
Fax: 805-527-5687
Web Site: www.entechnst.com/entech/home.htm
E-Mail: entech@entechnst.com

Entrix Inc
5252 Westchester Ste 250
Houston, TX 77005
Phone: 713-666-6223
Fax: 713-666-5227
Web Site: www.entrix.com
E-Mail: dransbot@entrix.com

Enviro Quip Intl Inc
8506 Beechmont Ave
Cincinnati, OH 45255
Phone: 513-388-4100
Natl: 800-543-0489
Fax: 513-388-4111
Web Site: www.enviroquip-intl.com
E-Mail: eqil@enviroquip-intl.com

Enviro Supply & Service Inc
17150 Newhope St Ste 701
Fountain Valley, CA 92708
Phone: 714-434-2628
Natl: 800-201-8150
Fax: 714-434-2690

Enviro-Equipment Inc
11180 Downs Rd
Pineville, NC 28134
Phone: 704-588-7970
Natl: 888-274-8929
Fax: 704-588-5119
Web Site: www.enviroequipment.com
E-Mail: enviro-equipment@msn.com

EnviroData Solutions Inc
15405 SE Stevenson Dr
Vancouver, WA 98683
Phone: 360-254-1608
Fax: 360-892-5814
Web Site: www.envirodatasolutions.com
E-Mail: woodward@envirodatasolutions.com

EnviroExpo New England
333 Trapelo Rd
Belmont, MA 02178
Phone: 800-543-5259
Fax: 617-489-5534
Web Site: www.enviroexpo.com
E-Mail: indshows@aol.com

EnviroLine Inc
4241 114th Terrace N
Clearwater, FL 33762
Phone: 813-573-2210
Natl: 800-554-0123

Fax: 888-554-0123
E-Mail: ballersrus@aol.com

EnviroNet LLC
PO Box 386 MO
Shrewsbury, MA 01545
Phone: 508-842-0578
Fax: 508-842-8723
E-Mail: environet@oal.com

Enviogenics
3812B Quakerbridge Rd Ste 208
Mercerville, NJ 08619
Phone: 609-437-7990
Fax: 609-586-4426
Web Site: www.enviogenics.com
E-Mail: enviogenics@enviogenics.com

Enviometrics Inc
1201 Commerce St
Lockport, IL 60441
Phone: 815-838-8331
Fax: 815-838-8336
E-Mail: envnet@aol.com

Environmental & Commercial Insurance
2400 Corporate Exchange Dr Ste 270
Columbus, OH 43231
Phone: 614-891-3200
Natl: 800-878-3242
Fax: 614-891-5757

Environmental & Information Resources Inc
2502 E Casper Dr
Spokane, WA 99223-9505
Phone: 509-448-3726
Fax: 509-448-3726
Web Site: www.members.aol.com/index.htm
E-Mail: bsaur@earthlink.net

Environmental Assessment Association
8383 E Evans
Scottsdale, AZ 85260
Phone: 602-483-6100
Fax: 602-998-9022
Web Site: www.iamri.org/eea.html
E-Mail: eea@iamri.org

Environmental Basics Co
PO Box 453
Shillington, PA 19607
Phone: 610-796-9102
Fax: 610-796-1453

Environmental Compliance Consultants Inc
9715 Little River Ct
Matthews, NC 28105-4493
Phone: 704-536-7515
Fax: 704-531-0373
E-Mail: ecol@worldnet.att.net

Environmental Compliance Products
8700 Warner Ave Ste 290
Fountain Valley, CA 92708
Phone: 714-847-4474
Natl: 800-643-7065
Fax: 714-847-7554

Environmental Consulting Ltd
4825 N Second St
Rockford, IL 61111
Phone: 815-877-7530
Fax: 815-877-5630

Environmental Dimensions Inc
8205 Spain Rd NE Ste 209D
Albuquerque, NM 87109
Phone: 505-797-8640
Fax: 505-797-8641
E-Mail: envdimen@nm.net

Environmental Fuel Systems
PO Box 1899
Bandera, TX 78003
Phone: 830-796-7767
Natl: 800-375-7747
Fax: 830-796-7484
Web Site: www.envfuelsys.com
E-Mail: efsl@envfuelsys.com

Environmental Liability Management Inc
218 Wall St Research Park

Princeton, NJ 08540
Phone: 609-683-4848
Fax: 609-683-0129
E-Mail: rlj@etm-inc

Environmental Maintenance Technology
38 Terry Ave
Schenectady, NY 12303-4819
Phone: 518-357-0908
Fax: 518-357-0908
E-Mail: glume@oal.com

Environmental Mitigation Group
450 Grant St
Akron, OH 44311
Phone: 330-375-5123
Natl: 800-208-5123
Fax: 330-375-9485
Web Site: www.emg@emg-ohio.com

Environmental Monitoring Systems
164 Ashley Ave
Charleston, SC 29403
Phone: 803-724-5708
Natl: 800-293-3003
Fax: 803-724-5702
Web Site: www.enviromon.com

Environmental Personnel Agency
10910 Glenway
Houston, TX 77070
Phone: 713-462-6532
Fax: 281-469-1551
E-Mail: epasearch@aol.com

Environmental Resource Center
101 Center Pointe Dr
Cary, NC 27513
Phone: 919-469-1585
Natl: 800-537-2372
Fax: 919-469-4137
Web Site: www.ercweb.com
E-Mail: service@ercweb.com
SEE AD ON PAGE 85, 159

Environmental Resources Center Inc
8490 Driver Cir
Alpharetta, GA 30022
Phone: 770-645-5805
Fax: 770-645-5806
E-Mail: envresctr@aol.com

Environmental Resources Management
855 Springdale Dr
Exton, PA 19341
Phone: 610-524-3500
Natl: 800-544-3117
Fax: 610-524-7335
Web Site: www.erm.com
E-Mail: mkt-info@erm.com

Environmental Risk Ltd
120 Mountain Ave
Bloomfield, CT 06002
Phone: 860-242-9933
Natl: 800-883-1568
Fax: 860-243-9055
Web Site: www.ertl.com
E-Mail: info@ertl.com

Environmental Science Services Inc
272 W Exchange St Ste 101
Providence, RI 02903
Phone: 401-421-0398
Fax: 401-421-5731
Web Site: www.essgroup.com
E-Mail: essri@ultranet.com

Environmental Software Resource Guide
4360-A E Main St Ste 400
Ventura, CA 93003-3278
Phone: 805-642-4020
Fax: 805-642-4020
Web Site: www.envirosow.com/
E-Mail: info@envirosow.com

Environmental Solutions Inc
8147 Delmar Blvd Ste 219
St Louis, MO 63130-3735
Phone: 314-863-9801
Fax: 314-721-0759

Environmental Supply Co Inc
2142 E Geer St
Durham, NC 27704-4730

Phone: 919-956-9688
Natl: 800-782-2575
Fax: 919-682-0333
E-Mail: envsupply@compuserve.com

Environmental Support Solutions
210 N Center Ste 101
Mesa, AZ 85201
Phone: 602-964-5043
Natl: 800-289-6116
Fax: 602-834-4319
Web Site: www.environ.com
E-Mail: info@environ.com

Environmental Systems & Technologies Inc
2608 Sheffield Dr
Blacksburg, VA 24060
Phone: 540-552-0685
Fax: 540-951-5307
Web Site: www.esnt.com
E-Mail: sales@esnt.com

Environmental Systems Research Institute Inc
380 New York St
Redlands, CA 92373
Phone: 909-793-2853
Natl: 800-447-9778
Fax: 909-793-5953
Web Site: www.esri.com
E-Mail: info@esri.com

Environmental Technologies Inc
PO Box 210
Magnolia, TX 77355
Phone: 281-356-6038
Natl: 800-683-1046
Fax: 281-356-6224
Web Site: www.envirtech.com
E-Mail: envirtec@infohwy.com

Environmental Technology Inc
2541 E University Dr
Phoenix, AZ 85034
Phone: 602-267-1900
Natl: 800-835-2159
Fax: 602-267-1973
Web Site: www.trencotech.com
E-Mail: jkenedy@trencotech.com

Environmental Waste Management Associates LLC
PO Box 5430
Parsippany, NJ 07054
Phone: 973-560-1400
Natl: 800-969-3159
Fax: 973-560-0400
Web Site: www.ewma.com

Environmental Works Inc
1630 W Ellindale
Springfield, MO 65807
Phone: 417-869-3100
Fax: 417-869-9699
Web Site: www.oznet.com/envirownworks/
E-Mail: ewi@oznet.com

Environmental, Health & Safety Search Associates
PO Box 1325
Palm Harbor, FL 34682
Phone: 813-787-3225
Fax: 813-787-5599
E-Mail: ehssearch@aol.com

Environmetrics Inc
11401 Moog Dr
St Louis, MO 63146
Phone: 314-432-0550
Natl: 800-333-3278
Fax: 314-432-4977

Envirotrol Inc
PO Box 61
Sewickley, PA 15143-0061
Phone: 412-741-2030
Fax: 412-741-2670
Web Site: www.envirotrol.com
E-Mail: info@envirotrol.com

Eriez Magnetics
220 Asbury Rd
Erie, PA 16506
Phone: 814-835-6000

Natl: 888-800-3743
Fax: 814-838-4960
Web Site: www.eriez.com
E-Mail: eriez@eriez.com

Esilon Thermoplastics
PO Box 240696
Charlotte, NC 28224
Phone: 704-889-2431
Natl: 800-578-7681
Fax: 704-889-2810
Web Site: www.esilon.com
SEE AD ON PAGE 9, 117

Essential Technologies Inc
1401 Rockville Pike Ste 500
Rockville, MD 20852
Phone: 301-284-3000
Natl: 800-999-5009
Fax: 301-284-3001
Web Site: www.essentech.com
E-Mail: info@essentech.com
SEE AD ON PAGE 52, 101

Evans & Mitchell Inc/ The Safety Advisors
2940 Broadway Blvd Ste 108
Garland, TX 75041
Phone: 972-840-2232
Fax: 972-271-0432
Web Site: www.quickpage.com/s/safetyadv/
E-Mail: safetyadv@safetyadv.com

Eventide Software Co
51 Myrick Ln
Harvard, MA 01451-1226
Phone: 978-772-1105
Natl: 800-375-0702
Fax: 978-772-1106
Web Site: www.ultranet.com/eventide/
E-Mail: eventide@ultranet.com

Evergreen Environmental Group
PO Box 839
Crestwood, KY 40014
Phone: 502-241-4171
Fax: 502-241-4347
E-Mail: evgusa@aol.com

Excel Partnership Inc
75 Glen Rd
Sandy Hook, CT 06842
Phone: 203-426-3281
Natl: 800-374-3818
Fax: 203-426-7811
Web Site: www.xlp.com
E-Mail: xlp@xlp.com
SEE AD ON PAGE 39, 114

FKC Co Ltd
2708 W 18th St
Port Angeles, WA 98363
Phone: 360-452-9472
Fax: 360-452-6880
E-Mail: fkcc@tenforward.com

Falmouth Products
PO Box 541
Falmouth, MA 02541
Phone: 508-548-6686
Natl: 800-340-8125
Fax: 508-548-8144
Web Site: www.capecod.net/falco
E-Mail: falcoat@capecod.net

Fergus Power Pump Inc
Rte 1 Box 257
Fergus Falls, MN 56537
Phone: 218-736-6772
Fax: 218-736-7115
E-Mail: bschuell@prtcl.com

Flair Environmental
4647 SW 40th Ave
Ocala, FL 34474
Phone: 352-873-5774
Fax: 352-873-5187
SEE AD ON PAGE 82, 104

Flex-Kleen
955 W Hawthorne Dr
Itasca, IL 60143
Phone: 630-775-0707
Fax: 630-875-3212

Flexible Valve Corp.

Flexible Valve Corp
11 Empire Blvd
S Hackensack, NJ 07066
Phone: 201-641-4700
Fax: 200-233-6294
E-Mail: info@flexvalve.com

Flo Trend Systems Inc
707 Lehman
Houston, TX 77018
Phone: 713-699-0152
Fax: 713-699-8054
Web Site: www.flo-trend.net
E-Mail: flo-trend@worldnet.att.net

Flomatic Valves
145 Murray St
Glens Falls, NY 12801-4424
Phone: 518-761-9797
Fax: 518-761-9798
Web Site: www.flomatic.com
E-Mail: fcorp69850@aol.com

Florida Specifier
PO Box 2027
Winter Park, FL 32790-2027
Phone: 407-671-7777
Fax: 407-671-7757
Web Site: www.enviro-net.com
E-Mail: mreast@enviro-net.com

Flowserve Corp
222 W Los Colinas Blvd Ste 1500
Irving, TX 75039
Phone: 972-443-6500
Fax: 972-443-6800
Web Site: www.flowserve.com

Fluid Components Intl
1755 La Costa Meadows Dr
San Marcos, CA 92069
Phone: 760-744-6950
Fax: 760-736-6250
Web Site: www.fluidcomponents.com

Fluid Controls Intl
1755 La Costa Meadows Dr
San Marcos, CA 92069-5187
Phone: 760-744-6950
Fax: 760-736-6250
Web Site: www.fluidcontrols.com
E-Mail: marcy_campbell@fluidcontrols.com

Fluid Controls Inc
3435 Stanwood Blvd NE
Huntsville, AL 35811
Phone: 205-851-6000
Fax: 205-851-6340
Web Site: www.fluidcontrols.com
E-Mail: envpro@fluidcontrols.com

Forensic Analytical
3777 Depot Rd Ste 409
Hayward, CA 94545
Phone: 510-887-8828
Fax: 510-887-3274
Web Site: www.forensica.com
E-Mail: sales@forensica.com

Forrester Group Inc
605 N Boonville Ave
Springfield, MO 65806
Phone: 417-864-6444
Fax: 417-864-6445
E-Mail: forrester-group@msn.com

Foss Environmental Services
PO Box 80327
Seattle, WA 98108
Phone: 800-414-8889
Fax: 206-768-5549
Web Site: www.fossenv.com
E-Mail: fossenv@fossenv.com



Foxboro Environmental
PO Box 500
E Bridgewater, MA 02333-0500

Phone: 508-378-5556
Natl: 888-369-2676
Fax: 508-378-5505
Web Site: www.foxboro.com
E-Mail: jconnell@foxboro.com
SEE AD ON PAGE 23

Franklin Miller Inc
60 Okner Pkwy
Livingston, NJ 07039
Phone: 873-535-9200
Fax: 800-932-0599
Fax: 873-535-6269
Web Site: www.franklinmiller.com
E-Mail: info@franklinmiller.com

Frontier Technology Inc
609 N Eastern Ave
Allegan, MI 49010
Phone: 616-673-9464
Fax: 616-673-9629

Fuji Electric Corp of America
Park 80 West Plaza II
Saddle Brook, NJ 07663
Phone: 201-712-0555
Fax: 201-368-8258

Fultz Pumps Inc
PO Box 550
Lewistown, PA 17044
Phone: 717-248-2300
Fax: 717-248-5458
E-Mail: fultzpumps@acsworld.net

Furness Controls Inc
3801-A Beam Rd
Charlotte, NC 28217
Phone: 704-357-0078
Fax: 800-898-5325
Fax: 704-357-1103
Web Site: www.furness-controls.com
E-Mail: furnesscontrols@compuserve.com

G B Wilson Associates Inc
407 N Lincoln Ave Ste 103
Loveland, CO 80537
Phone: 970-663-7757
Fax: 970-663-5441

G O Environmental Inc
1295 NW 163rd St
Miami, FL 33169
Phone: 305-621-2882
Fax: 305-621-1710
Web Site: www.business1.com/genocean
E-Mail: dan-schaaf@worldnet.att.net

GE Co
320 Great Oaks Office Pk
Albany, NY 12203-5965
Phone: 518-869-5555
Fax: 800-626-2004
Fax: 518-869-2828
Web Site: www.geinfo@www.ge.com

GNN Inc
62 Musket Ln
Mashpee, MA 02649
Phone: 508-539-0404
Fax: 508-539-0808
Web Site: www.gnn-inc.com
E-Mail: dan-schaaf@worldnet.att.net

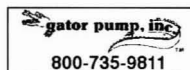
GO Mavs
62 Musket Ln
Mashpee, MA 02649
Phone: 508-539-0404
Fax: 508-539-0808
Web Site: www.gnm-inc.com/go-mavs
E-Mail: dan-schaaf@worldnet.att.net

GSE Lining Technology Inc
19103 Gundie Rd
Houston, TX 77073
Phone: 800-435-2008
Fax: 281-875-6010
E-Mail: gseworld.com

GTE Corp
532 LaGuardia Pl Ste 234
New York, NY 10012
Natl: 800-828-7280

Gabbard Environmental Services Inc
7611 Hope Farm Rd
Fort Wayne, IN 46815
Phone: 219-493-2982
Fax: 219-493-4043

Gas Tech Inc
8407 Central Ave
Newark, CA 94560
Phone: 510-745-8700
Fax: 510-794-6210
Web Site: www.gastech-inc.com
E-Mail: sales@gastech-inc.com



Gator Pump Inc
302 Corrigan
Brownwood, TX 76801
Phone: 915-643-3502
Natl: 800-735-9811
Fax: 915-643-5760
Web Site: www.gator-pump.com
E-Mail: gator@gator-pump.com

Gems Sensors Inc
1 Cowles Rd
Plainville, CT 06062
Phone: 860-747-3000
Natl: 800-847-5691
Fax: 860-747-4244
Web Site: www.gemsensors.com

Gemstone Environmental
50 E Easy St
Simi Valley, CA 93065
Phone: 805-827-6990
Natl: 800-235-3375
Fax: 805-526-7603
Web Site: www.gemenviro.com
E-Mail: willybaer@aol.com

Gemtor Inc
One Johnson Ave
Matawan, NJ 07747
Phone: 732-563-6200
Natl: 800-405-9048
Fax: 732-290-9391
Web Site: www.gemtor.com
E-Mail: sales@gemtor.com

General Carbon Corp
33 Paterson St
Paterson, NJ 07051
Phone: 973-523-2223
Fax: 973-523-1494



General Chemical Co
PO Box 7626
Salem, OR 97303
Phone: 503-364-2999
Natl: 800-844-4874
Fax: 503-364-0085

General Chemical Corp
90 E Halsey Rd
Parsippany, NJ 07054
Phone: 973-515-0900
Natl: 800-631-8050
Fax: 973-515-2468
Web Site: www.genchem.com

General Container Corp
54 Veronica Ave
Somerset, NJ 08875
Phone: 732-435-0020
Natl: 800-366-7044
Fax: 732-435-0040
Web Site: www.generalcontainer.com
E-Mail: gencon@clipsenet

General Monitors
26776 Simpatra Cir
Lake Forest, CA 92630
Phone: 714-581-4464
Fax: 714-581-1151
Web Site: www.generalmonitors.com
E-Mail: alana@generalmonitors.com

Genium Publishing Corp
1 Genium Plaza

Schenectady, NY 12304-4690
Phone: 518-377-8854
Natl: 800-243-6486
Fax: 518-377-1891
Web Site: www.genium.com
E-Mail: info@genium.com

Geo-Environmental Solutions
6225 Prospect St
Fredericksburg, VA 22407-8333
Phone: 540-891-8110
Fax: 540-891-7168
Web Site: www.gesolutions.com
E-Mail: gesolutions@gesolutions.com

Geoco Services Inc
2775 Arnold Rd
Salina, KS 67401
Phone: 785-826-1616
Natl: 800-826-1602
Fax: 785-826-9508
Web Site: www.midkan.com/geoco/index.htm
E-Mail: geoco@midkan.com

Geophysical Survey Systems Inc
PO Box 97
North Salem, NH 03073-0097
Phone: 603-693-1109
Natl: 800-524-3011
Fax: 603-693-3984
Web Site: www.geophysical.com
E-Mail: gssisates@aol.com

George Fischer Inc
2882 Dow Ave
Tustin, CA 92780-7285
Phone: 714-731-8800
Natl: 800-854-4090
Fax: 714-731-6923
E-Mail: info@us.georgefischer.com

Georgia & Southeast Environmental News
PO Box 2027
Winter Park, FL 32790
Phone: 407-671-7777
Fax: 407-671-7757
Web Site: www.enviro-net.com
E-Mail: mreast@enviro-net.com

Georgia Steel & Chemical Co Inc
10810 Guilford Rd
Annapolis Junction, MD 20701
Natl: 800-296-0351
Fax: 301-470-6313
Web Site: www.safetyonline.net/georgiasteel/home.htm
E-Mail: gasteel@erols.com

Geotech Environmental Equipment Inc
8035 E 40th Ave
Denver, CO 80207
Phone: 303-433-7101
Natl: 800-833-7958
Fax: 303-477-1230
Web Site: www.geotechenv.com
E-Mail: geotech@ix.netcom.com

Gerguson DPI Inc
1900 W Northwest Hwy
Dallas, TX 75220
Phone: 972-556-0010
Fax: 972-556-9149
Web Site: www.fergusoninternational.com
E-Mail: dpi@fergusoninternational.com

Glenro Inc
39 McBride Ave
Paterson, NJ 07501-1799
Phone: 973-279-5900
Natl: 800-822-0106
Fax: 973-279-9103
Web Site: www.glenro.thomasregister.com
E-Mail: info@glenro.com

Global Technologies
8855 N 55th St
Milwaukee, WI 53223
Phone: 414-365-6430
Fax: 414-365-6410
Web Site: www.anguil.com
E-Mail: sales@anguil.com

Global Water
11257 Coloma Rd
Gold River, CA 95670
Phone: 916-638-3429
Natl: 800-876-1172
Fax: 916-638-3270
Web Site: www.globalw.com
E-Mail: globalw@globalw.com



Goal Line Environmental Technologies
11141 Outlet Dr
Knoxville, TN 37932-3148
Phone: 423-671-4045
Natl: 888-777-4532
Fax: 423-671-4047
Web Site: www.glet.com
SEE AD ON PAGE 76, 130

Godwin Pumps of America Inc
One Floodgate Rd
Bridgeport, NJ 08014
Phone: 609-467-3636
Fax: 609-467-4841

Golder Associates
3730 Chamblee Tucker Rd
Atlanta, GA 30341
Phone: 770-496-1893
Natl: 800-275-3281
Fax: 770-934-9560
Web Site: www.golder.com
E-Mail: gac@golder.com
SEE AD ON PAGE 27, 105

Golder Associates Inc
305 Fellowship Rd Ste 200
Mt Laurel, NJ 08054
Phone: 609-273-1110
Natl: 888-678-8223
Fax: 609-273-0778
Web Site: www.golder.com
E-Mail: rercisson@golder.com
SEE AD ON PAGE 27, 105

Gorman-Rupp Co
305 Bowman St
Mansfield, OH 44903-1600
Phone: 419-755-1011
Fax: 419-755-1251
Web Site: www.gormanrupp.com
E-Mail: gsrates@gormanrupp.com

Groundwater Recovery Systems Inc
299 National Rd
Exton, PA 19341
Phone: 610-524-2790
Natl: 800-347-1901
Fax: 610-524-2795

Government Institutes Inc
4 Research Pl Ste 200
Rockville, MD 20850
Phone: 301-921-2300
Fax: 301-921-0373
Web Site: www.govinst.com
E-Mail: gininfo@govinst.com

Grace Industries Inc
PO Box 167
Transfer, PA 16154
Phone: 412-962-9231
Natl: 800-969-6933
Fax: 412-962-3611

Graseby Andersen Inc
500 Technology Ct
Smyrna, GA 30082-5210
Phone: 770-319-9999
Natl: 800-241-6898
Fax: 770-319-0336
Web Site: www.graseby.com
E-Mail: andersen@graseby.com
SEE AD ON PAGE 69, 128

Great Lakes Environmental Inc
315 S Stewart Ave
Addison, IL 60101
Phone: 630-543-9444
Fax: 630-543-1169
Web Site: www.gle.com
E-Mail: greatlakes@waterlink.com
SEE AD ON PAGE 84, 106

Green Tek Inc
295 NW Hillcrest Dr
Grants Pass, OR 97526
Phone: 541-955-5386
Fax: 541-479-4285

GreenWare Environmental Systems Inc
145 King St E Ste 200
Toronto ON Canada, M5C 2Y8
Phone: 416-363-5577
Fax: 416-363-5577
Web Site: www.greenware.ca
E-Mail: greeninfo@greenware.ca

Gregory Leonardos-Environmental Odor Consultant
43 Ronald Rd
Arlington, MA 02174-1421
Phone: 781-646-4687

Groundwater & Environmental Services Inc
PO Box 1750
Wall, NJ 07719
Phone: 732-919-0100
Fax: 732-919-1678
Web Site: www.gesnj.com
E-Mail: info@gesonline.com

Groundwater Services Inc
2211 Norfolk St Ste 1000
Houston, TX 77098-4044
Phone: 713-522-6300
Fax: 713-522-8010
Web Site: www.gsi-net.com/
E-Mail: rbcainfo@gsi-net.com

Guardian Manufacturing Co
302 Conwell Ave
Willard, OH 44890
Phone: 419-333-2711
Fax: 419-935-8961
Web Site: www.webcom.com/guardian
E-Mail: susanl@willard-oh.com

H F Scientific Inc
3170 Metro Pkwy
Fort Myers, FL 33916-7597
Phone: 941-337-2116
Fax: 941-332-7643
Web Site: www.hfscientific.com
E-Mail: info@hfscientific.com

H L Bouton Co
11 Kendrick Rd
Wareham, MA 02571
Phone: 508-295-3300
Fax: 508-295-3521
Web Site: www.hlbouton.com
E-Mail: eyewear@hlbouton.com

H2NS Environmental Inc
PO Box 201837
Austin, TX 78720
Phone: 512-918-9035
Fax: 512-918-9684
Web Site: www.h2ns.com
E-Mail: h2nsinc@ix.netcom.com

HDR Engineering Inc
8404 Indian Hills Dr
Omaha, NE 68114
Phone: 402-399-1000
Fax: 402-399-1338
Web Site: www.hdrinc.com
E-Mail: info@hdrinc.com

HML Inc dba Hoosier Microbiological Laboratory
912 W McGalliard
Muncie, IN 47303
Phone: 765-288-1124
Fax: 765-288-8378
Web Site: www.hml.com
E-Mail: 102255.152@compuserve.com

HNU Systems Inc
160 Charlemont St
Newton, MA 02161-9987
Phone: 617-964-6690
Fax: 617-558-0056
Web Site: www.hnu.com
E-Mail: sales@hnu.com
SEE AD ON PAGE 81, 162

HPC Inc
PO Box 1292
Bismarck, ND 58502-1292
Phone: 701-255-6080
Fax: 701-250-9177
Web Site: www.webhostbtgate.com/~hpc/
E-Mail: hpc@btgate.com

HPG International Inc
200 Cottontail Ln
Somerset, NJ 08873
Phone: 800-457-6634
Fax: 732-302-4220



Hach Co
5600 Lindbergh Dr
Loveland, CO 80539
Phone: 970-669-3050
Fax: 970-669-2932
Web Site: www.hach.com

Haestad Methods
37 Brookside Rd
Waterbury, CT 06708
Phone: 203-755-1666
Fax: 203-597-1488
Web Site: www.haestad.com
E-Mail: info@haestad.com

Hahn & Associates Inc
434 NW 6th Ave Ste 203
Portland, OR 97209
Phone: 503-796-0717
Fax: 503-227-2209
E-Mail: g.hahn@hahnasoc.com

Haley & Aldrich Inc
465 Medford St Ste 2200
Boston, MA 02129-1400
Phone: 617-886-7400
Fax: 617-886-7600
E-Mail: bos@haleyaldrich.com

Halliday Products Inc
6401 Edgewater Dr
Orlando, FL 32810
Phone: 407-298-4470
Fax: 407-298-4534
Web Site: www.halliday.com
E-Mail: info@halliday.com

Handex Environmental Midwest
2921 E Kemper Rd
Cincinnati, OH 45241
Phone: 513-772-3349
Fax: 513-772-3460
Web Site: www.handex.com
E-Mail: handx@fyi.net

Hands & Associates Inc
1150 Griswold Ste 2800
Detroit, MI 48226
Phone: 313-963-8870
Fax: 313-963-8876
E-Mail: hai@voyager.net

Hankison Intl
1000 Philadelphia St
Canonsburg, PA 15317
Phone: 412-745-1555
Fax: 412-745-6040
Web Site: www.hankisonintl.com
E-Mail: inquiry@hankisonintl.com

Hanna Instruments
584 Park East Dr
Woonsocket, RI 02895
Phone: 401-765-7500

Natl: 800-426-6287
Fax: 401-765-7575
Web Site: www.hannainst.com
E-Mail: mktg@hannainst.com

Harding Lawson Associates
7655 Redwood Blvd
Novato, CA 94945
Phone: 415-892-0821
Fax: 415-892-0631
Web Site: www.harding.com
E-Mail: slederer@harding.com

Hargis & Associates Inc
1400 E Southern Ave Ste 600
Tempe, AZ 85282
Phone: 602-345-0888
Fax: 602-730-0508
Web Site: www.lawinfo.com/biz/hargis
E-Mail: h-atempe@ix.netcom.com

Hargis & Associates Inc
2223 Avenida De La Playa Ste 300
La Jolla, CA 92037
Phone: 619-454-0165
Fax: 619-454-5839
Web Site: www.lawinfo.com/biz/hargis
E-Mail: hargissd@msn.com

Hargis & Associates Inc
115 W California Blvd
Pasadena, CA 91105
Phone: 626-238-9506
Web Site: www.lawinfo.com/biz/hargis

Harigs & Associates Inc
1820 E River Rd Ste 100
Tucson, AZ 85718
Phone: 520-881-7300
Fax: 520-529-2141
Web Site: www.lawinfo.com/biz/hargis
E-Mail: hargistuc@msn.com

Harmonic Drive Technologies
247 Lynnfield St
Peabody, MA 01960
Phone: 978-532-1800
Fax: 978-532-9406
Web Site: www.harmonic-drive.com

Harwil Corp
221 Lombard St
Oxnard, CA 93030
Phone: 805-988-6800
Fax: 805-988-6804
Web Site: www.harwil.com
E-Mail: harwil@ix.netcom.com

Hayward Industrial Products Inc
900 Fairmount Ave
Elizabeth, NJ 07207
Phone: 908-351-5400
Fax: 908-351-7706
Web Site: www.thomasregister.com/hayward
E-Mail: industrial@haywardnet.com



Haz Safe Buildings
730 Ekastown Rd
Sarber, PA 18055
Phone: 412-353-0300
Fax: 412-845-7834
SEE AD ON PAGE 160

Haz-Stor Mfg Inc
2454 Dempster St
Des Plaines, IL 60016
Phone: 847-294-1000
Fax: 847-298-9716
SEE AD ON PAGE 44

HazWaste Technologies Corp
2995 Central Green Ct S
Boulder, CO 80301
Phone: 303-440-5664
Fax: 303-440-5731

Hazen & Sawyer PC
730 Broadway
New York, NY 10003
Phone: 212-777-8400
Fax: 212-614-9049
Web Site: www.hazensandawyer.com

Haztech Systems Inc
1555 Yosemite Ave Ste 16
San Francisco, CA 94124
Phone: 415-822-5775
Fax: 415-822-5777
Web Site: www.haztech.com
E-Mail: haztech@best.com

Health & Hygiene/ELB
420 Gallimore Dairy Rd
Greensboro, NC 27409
Phone: 336-665-1818
Fax: 336-665-0847
Web Site: www.health-hygiene.com
E-Mail: 74260.3133@compuserve.com

Helken Equipment Co
517 Stevenson Rd
South Elgin, IL 60177-1136
Phone: 847-697-3690
Fax: 847-697-3692

Hersey Measurement Co
150 Venture Blvd
Spartanburg, SC 29305
Phone: 864-574-2960
Fax: 864-578-7308
Web Site: www.herseymeasure-ment.com
E-Mail: hersey@worldnet.att.net

Hertz Equipment Rental
225 Brae Blvd
Park Ridge, NJ 07656
Phone: 201-307-2098
Fax: 201-307-2651
Web Site: www.hertzequip.com
SEE AD ON PAGE 38

Hi Temp Technology Corp
PO Box 903
Flemington, NJ 08822
Phone: 908-788-6999
Fax: 908-806-3408
Web Site: www.hitempsite.com
E-Mail: hitemp@blast.net

Highland Tank & Manufacturing Co
One Highland Rd
Stoytown, PA 15563
Phone: 814-893-5701
Fax: 814-893-6126
Web Site: www.highlandtank.com

Hilliard Corp
100 W Fourth St
Elmira, NY 14902
Phone: 607-733-7121
Fax: 607-732-8979
Web Site: www.hilliardcorp.com

Hixson A/E Inc
659 Van Meter St
Cincinnati, OH 45202
Phone: 513-241-1230
Fax: 513-241-1287
Web Site: www.hixson-inc.com
E-Mail: aei@hixson-inc.com

Hobas Pipe USA Inc
1413 Richey Rd
Houston, TX 77073
Phone: 281-821-2200
Fax: 281-821-7715
Web Site: www.hobaspipesusa.com
E-Mail: info@hobaspipesusa.com

Holzmacher, McLendon & Murrell PC
575 Broad Hollow Rd
Melville, NY 11747
Phone: 516-756-8000
Fax: 516-594-4122
E-Mail: n2m@h2m.com

Horiba Instruments Inc
17671 Armstrong Ave
Irvine, CA 92614
Phone: 714-250-4811
Fax: 714-250-0924

Hudson Industries
2235 E Enterprise Pkwy
Twinsburg, OH 44087
Phone: 330-487-0668
Fax: 330-487-0668
E-Mail: hini@aol.com

Huntington Environmental Systems
1501 E Woodfield Rd Ste 200 W
Schaumburg, IL 60173
Phone: 847-706-8950
Fax: 847-706-8954

Hyde Consultants Inc
4106 Sherwood Ln
Houston, TX 77092
Phone: 713-683-6500
Fax: 713-683-6413
E-Mail: 201147@mcimail.com

Hydro Group Inc
1011 US Hwy 22 Ste 201
Bridgewater, NJ 08807
Phone: 908-704-8880
Fax: 908-704-9522
Web Site: www.hydrogroup.com
E-Mail: info@hydrogroup.com

Hydro Quip Inc
63 N Washington St
N Attleboro, MA 02761
Phone: 508-695-3640
Fax: 508-695-4412
Web Site: www.envirodirectory.com/hydroq
E-Mail: hqjows@aol.com

HydroCal Inc
22732 Granite Way Ste A
Laguna Hills, CA 92653
Phone: 714-455-0765
Fax: 714-455-0764
Web Site: www.earthlink.net/~hydrocal
E-Mail: marketing@hydrocal.com

HydroQual Inc
1 Lethbridge Plz
Mahwah, NJ 07430
Phone: 201-529-5151
Fax: 201-529-5728
Web Site: www.hydroqual.com
E-Mail: kkeane@hydroqual.com

Hydrocarbon Environmental Recovery Systems
PO Box 701275
San Antonio, TX 78270
Phone: 210-497-8980
Fax: 210-497-4227
Web Site: www.adwizards.com/hers

Hydrolab Corp
12921 Burnet Rd
Austin, TX 78727
Phone: 512-255-8841
Fax: 512-255-3106
Web Site: www.hydrolab.com
E-Mail: sales@hydrolab.com
SEE AD ON PAGE 64, 126

IATL-International Asbestos Testing Laboratories
1000 Horizon Way Unit 100
Mt Laurel, NJ 08054
Phone: 609-231-9449
Fax: 609-231-9818

IFX
PO Box 128
Woodsboro, MD 21798
Phone: 801-845-2770
Fax: 301-845-2213

IHS Environmental Information

IHS Environmental Information

912 Springdale Dr
Exter, PA 19341
Phone: 610-594-4400
Fax: 610-365-2146
Fax: 610-594-4481
Web Site: www.ihseenv.com
E-Mail: sales@ihseenv.com

ILC Dover Inc

One Moonwalker Rd
Frederica, DE 19946-2080
Phone: 302-335-3911
Natl: 800-631-9567
Fax: 302-355-1320
Web Site: www.ilcdover.com
E-Mail: sokold@ilcdover.usa.com
SEE AD ON PAGE 123, 141

IQUES-International Quality & Environmental Services

41820 W Six Mile Rd Ste 100
Northville, MI 48167
Phone: 248-344-4466
Natl: 800-793-2691
Fax: 248-344-9451
E-Mail: iques@aol.com
SEE AD ON PAGE 83, 155

ITS Intertek Services

313 Speen St
Natick, MA 01760
Phone: 508-647-5147
Natl: 800-810-1195
Fax: 508-647-6714
Web Site: www.itsintertek.com
E-Mail: wbooren@itsqs.com

ITT A-C Pump

1150 Tennessee Ave
Cincinnati, OH 45229
Phone: 513-482-2500
Natl: 800-734-PUMP
Fax: 513-482-2569
Web Site: www.ittacpump.com
E-Mail: john-becca@fluids.ittind.com

ITW Devcon Engineered Coatings

30 Endicott St
Danvers, MA 01923
Phone: 978-777-1100
Fax: 978-774-0516
Web Site: www.devcon.com

Image Wave Corp

PO Box 4504
Lago Vista, TX 78645
Phone: 512-267-9705
Fax: 512-267-9703

In-Situ Inc

210 S Third St
Laramie, WY 82070
Phone: 307-742-8213
Natl: 800-446-7488
Fax: 307-721-7598
Web Site: www.in-situ.com
E-Mail: marketing@in-situ.com

In-Situ Oxidative Technologies Inc

51A Everett Dr Ste 100
Lawrenceville, NJ 08648
Phone: 609-275-8500
Fax: 609-275-9608
E-Mail: 7303571@mcimail.com

Incon Inc

74 Industrial Park Rd
Saco, ME 04072
Phone: 207-283-0156
Natl: 800-872-3455
Fax: 207-283-0158
Web Site: www.intelcon.com
E-Mail: sales@intelcon.com

Industrial Marine Service Inc

PO Box 1779
Norfolk, VA 23501
Phone: 757-543-5718
Natl: 800-229-4671
Fax: 757-543-4561
Web Site: www.ims-inc-va.com
E-Mail: imserv@aol.com

Industrial Scientific Corp

1001 Oakdale Rd
Oakdale, PA 15071
Fax: 412-788-4353

Natl: 800-338-3287
Fax: 412-788-8353
Web Site: www.indsci.com
E-Mail: info@indsci.com

Inficon

Two Technology Pl
E Syracuse, NY 13057-9714
Phone: 800-223-0633
Fax: 315-434-2520
SEE AD ON PAGE 11, 107

Infiltrator Systems Inc

4 Business Pk Rd
Old Saybrook, CT 06475
Phone: 860-388-6639
Natl: 800-221-4436
Fax: 860-388-6810
Web Site: www.infiltratorsystems.com

Innovative & Creative Environmental Solutions

PO Box 99288
Emeryville, CA 94662-9288
Fax: 510-652-3555

Innovative Consultants Inc

3740 Campus Dr Ste 200
Newport Beach, CA 92660
Phone: 714-756-8750
Fax: 714-261-8419
E-Mail: iicgroup@aol.com

Innovative Sensors Inc

4745 E Bryson St
Anaheim, CA 92807
Phone: 714-779-8781
Natl: 800-TELL-ISI
Fax: 714-779-9315
Web Site: www.innovativesensors.com
E-Mail: isiph@aol.com

Implant Enviro-Systems 2000 Inc

181 Riverside Ave
Somerset, MA 02725
Phone: 508-677-2227
Fax: 508-677-3037

Institute Environmental Technologies Inc

PO Box 85018
Ft Wayne, IN 46885-0018
Phone: 219-471-4387
Natl: 800-893-4157
Fax: 219-471-4388

Institute of Hazardous Materials Management

11900 Parklawn Dr
Rockville, MD 20852
Phone: 301-984-8969
Fax: 301-984-1516

Intek Corp

10410 Rockley Rd
Houston, TX 77099
Phone: 281-498-5855
Natl: 800-323-6527
Fax: 281-498-2134

Intercomp Inc

1438 W Main St
Ephrata, PA 17522-1345
Phone: 717-721-3500
Natl: 800-640-7601
Fax: 717-721-3515

Interface Design Inc

6116 Skyline Dr Ste 106
Houston, TX 77057
Phone: 713-783-3607
Natl: 800-399-2326
Fax: 713-783-4971
Web Site: www.interface-design-inc.com

Interlek Testing Services Environmental Laboratories

1089 E Collins Blvd
Richardson, TX 75081
Phone: 972-238-5591
Natl: 800-978-TEST
Fax: 972-238-5592
Web Site: www.its-env.com
E-Mail: jrm@its-env.com

Intermark Inc Fine Watches

PO Box 36066

Kansas City, MO 64111
Phone: 816-361-7665
Natl: 800-821-3632
Fax: 816-363-0949

International Technology Corp

2790 Mosside Blvd
Monroeville, PA 15146-2792
Phone: 412-372-7701
Fax: 412-373-7135
Web Site: www.itcorp.com
E-Mail: bbosack@itcorp.com

Interon Corp

620 Pennsylvania Dr
Exton, PA 19341
Phone: 610-321-0404
Fax: 610-321-0408

Ionics Inc/Instrument Div

65 Grove St
Watertown, MA 02172
Phone: 617-926-2500
Natl: 800-348-1730
Fax: 617-926-8254
Web Site: www.ionics.com/products/division/instruments
E-Mail: afusca@ionics.com

Iron Age Safety Shoes

Robinson Plaza Three Ste 400
Pittsburgh, PA 15205
Phone: 412-787-4100
Natl: 800-223-8912
Fax: 412-787-8123
Web Site: www.ironageshoes.com
E-Mail: ironage.shoes@internetmci.com

Isco Inc

4700 Superior St
Lincoln, NE 68504
Phone: 402-464-0231
Natl: 800-228-4373
Fax: 402-465-3064
Web Site: www.isco.com
E-Mail: info.ed@isco.com

J

J J Keller & Associates Inc

3003 W Brezewood Ln
Neenah, WI 54957-0368
Phone: 800-722-2848
Natl: 800-327-6868
Fax: 800-727-7516
Web Site: www.jjkeller.com
E-Mail: sales@jjkeller.com
SEE AD ON PAGE 86, 112

J L & Associates

1266 Wedgewood Manor Way
Reston, VA 20194-1325
Phone: 703-742-9447
Fax: 703-742-3824

J T Baker, A Div of Mallincredit Baker Inc

222 Red School Ln
Phillipsburg, NJ 08865
Phone: 908-859-2151
Natl: 800-582-2537
Fax: 908-859-9318
Web Site: www.jtbaker.com
E-Mail: info@mj.com

J U M of North America Inc

6421 Inkster Rd Ste 102
Bloomfield Hills, MI 48301
Phone: 248-626-9020
Natl: 800-407-9832
Fax: 248-626-9020
Web Site: www.jum.com

J V Manufacturing Inc/Cram-A-Lot

PO Box 229
Springdale, AR 72765
Phone: 501-751-7320
Natl: 800-678-7320
Fax: 501-751-7774
Web Site: www.cra-a-lot.com
E-Mail: sales@jv.com

JDS Products Inc

895 Embarcadero Dr
El Dorado Hills, CA 95762
Phone: 916-933-2699
Fax: 800-486-4993
Web Site: www.isgnet.com/jds/
E-Mail: safstart@aol.com

JWB Environmental Engineering

10324 Bnar Creek Pl
Carmel, IN 46033-4111
Phone: 317-574-0350
Fax: 317-574-0350
E-Mail: jwb@compuserve.com

JWC Environmental

290 Paulmar Ave
Costa Mesa, CA 92626
Phone: 714-833-3888
Natl: 800-331-2277
Fax: 714-833-8658
Web Site: www.jwce.com
E-Mail: jwce@jwce.com

Jacobs Environmental Inc

120 Centennial Ave
Piscataway, NJ 08854
Phone: 732-457-0700
Fax: 732-457-0706

Jamesbury

640 Lincoln St
Worcester, MA 01615
Phone: 508-852-0200
Natl: 800-626-5965
Fax: 508-852-8178
E-Mail: jamesbury.com

Jeffrey-Tropodine

676 Saw Mill River Rd
Yonkers, NY 10710
Phone: 914-376-6700
Fax: 914-376-6735
Web Site: www.tropodine.com
E-Mail: tropodine@aol.com

Jensen Inert Products

3700 NW 124th Ave Ste 102
Parkland, FL 33065
Phone: 954-344-2006
Natl: 800-446-3781
Fax: 954-344-2008
Web Site: www.jenseninert.com
E-Mail: jensenin@ix.netcom.com

John Zink Co

PO Box 21220
Tulsa, OK 74121-1220
Phone: 918-234-1800
Fax: 918-234-2700
Web Site: www.johnzink.com

Johnson Matthey Environmental Products

480 E Swedesford Rd
Wayne, PA 19087-1880
Phone: 610-971-3100
Natl: 800-793-6724
Fax: 610-971-3124

Jones & Henry Engineers Ltd

2000 W Central Ave
Toledo, OH 43606
Phone: 419-473-9611
Fax: 419-473-8924

Jones Chromatography Inc

PO Box 280329
Lakewood, CO 80228-0329
Phone: 303-989-9200
Natl: 800-874-6244
Fax: 303-988-9478
Web Site: www.joneschrom.com
E-Mail: support@joneschrom.com

Justrite Mfg Co

2454 Dempster St
Des Plaines, IL 60016
Phone: 847-298-9250
Fax: 847-298-3429
Web Site: www.safetyonline.net
SEE AD ON PAGE 87

K

K & M Environmental Inc

2421 Bowland Pkwy Ste 102
Virginia Beach, VA 23454
Phone: 757-431-2260
Natl: 800-808-2234
Fax: 757-431-2255
E-Mail: kandmenvironmental@mcione.com

K & S Engineers Inc

9715 Kennedy Ave

Highland, IN 46322
Phone: 219-924-5231
Fax: 219-924-5271

K C S Environmental Corp

1800 E Shara Ave Ste 107
Las Vegas, NV 89104
Phone: 702-693-5767
Fax: 702-734-7500

K-Tron America Inc

PO Box 888
Pitman, NJ 08071-0888
Phone: 609-589-0500
Fax: 609-589-8113
Web Site: www.ktron.com
E-Mail: info@ktron.com

KVB

9420 Jeronimo Rd
Irvine, CA 92618
Phone: 714-855-2515
Fax: 714-855-2535
Web Site: www.kvb-cems.com

Kanomax USA Inc

250 W 57th St Ste 816
New York, NY 10107
Phone: 212-489-3755
Fax: 212-489-4101
E-Mail: kano2@idt.net

Kappler Protective Apparel & Fabrics

PO Box 490
Guntersville, AL 35976
Phone: 205-505-4005
Natl: 800-378-7078
Fax: 205-505-4028
Web Site: www.kappler.com
E-Mail: info@kappler.com

Keck Instruments Inc

1099 W Grand River Ave
Williamston, NC 48895
Phone: 517-655-5616
Natl: 800-542-5681
Fax: 517-655-1157
Web Site: www.keckinc.com
E-Mail: water@keckinc.com

Kem-Tron Technologies Inc

3050 Post Oak Blvd Ste 699
Houston, TX 77056
Phone: 713-621-0075
Natl: 888-536-8766
Fax: 713-621-0080
Web Site: www.kemtron.com
E-Mail: info@kemtron.com

Kepper Plastics Fabricators Inc

3131 Lomita Blvd
Torrance, CA 90505-5158
Phone: 301-325-3162
Fax: 310-326-8560
E-Mail: kpfn@aol.com

Killam Associates Consulting Engineers

27 Bleeker St
Millburn, NJ 07041-1008
Phone: 973-379-3400
Natl: 800-832-3272
Fax: 973-912-2405
Web Site: www.killam.com
E-Mail: killam@killam.com

Kin-Tek Inc

504 Laurel St
LaMarge, TX 77568
Phone: 409-938-3627
Natl: 800-326-3627
Fax: 409-938-3710
E-Mail: sales@kin-tek.com

King Buck Technology

2356 Moore St Ste 102
San Diego, CA 92110
Phone: 619-299-8431
Fax: 619-299-8437
E-Mail: kingbuck@attmail.com

Knorr Associates

PO Box 400
Butler, NJ 07045
Phone: 973-492-8500
Fax: 973-492-0453
Web Site: www.knorr.com
E-Mail: mailroom@knorr.com

Koch Membrane Systems Inc
850 Main St
Wilmington, MA 01887-3388
Phone: 508-657-4250
Fax: 508-657-5208
Web Site: www.kochmembrane.com
E-Mail: donahuek@kochind.com

Koester Environmental Services Inc
900 Manufacturers
Chattanooga, TN 37405
Phone: 423-265-9551
Natl: 800-925-9551
Fax: 423-265-9525
Web Site: www.koesterco.com
E-Mail: jtd@signal.koesterco.com

Komex-H2O Science
5000 Bolsa Ave Ste 105
Huntington Beach, CA 92649
Phone: 714-379-1157
Fax: 714-379-1160
Web Site: www.komex.com
E-Mail: h2oscience@earthlink.net

Komline-Sandersen
12 Holland Ave
Peapack, NJ 07977
Phone: 800-234-1008
Natl: 800-225-5457
Fax: 800-329-7457
Web Site: www.komline.com
E-Mail: info@komline.com

LCI Corp
PO Box 16348
Charlotte, NC 28297-8804
Phone: 704-394-8341
Fax: 704-392-8507
E-Mail: info@lciCorp.com

LWT Inc
PO Box 250
Somerset, WI 54025
Phone: 715-247-5464
Fax: 800-243-1406
Natl: 715-247-3934
Web Site: www.lwtpithog.com
E-Mail: info@lwtpithog.com

Lakeshore Technical College
1290 North Ave
Cleveland, OH 53015
Phone: 920-458-4183
Natl: 888-GO-TOLTC
Fax: 920-693-3564
Web Site: www.ltc.tec.wi.us
E-Mail: kado@ltc.tec.wi.us

Lakewood Products/Osmonics
5951 Clearwater Dr
Minnetonka, MN 55343-8995
Phone: 602-931-7332
Natl: 800-228-0839
Fax: 602-931-7727
Web Site: www.osmonics.com
E-Mail: osmonics@worldnet.att.net

Lan Associates Inc
662 Goffle Rd
Hawthorne, NJ 07506
Phone: 973-423-0350
Fax: 973-425-5175

Lancaster Laboratories
PO Box 12425
Lancaster, PA 17605-2425
Phone: 717-656-2300
Fax: 717-656-2681
Web Site: www.lancasterlabs.com
E-Mail: environ@lancasterlabs.com

Lance Environmental
1765 Stehower NW
Grand Rapids, MI 49504
Phone: 616-791-9100
Fax: 616-453-1832

Land Combustion
2525-B Pearl Buck Rd
Bristol, PA 19007
Phone: 215-781-0810
Natl: 800-922-9679
Fax: 215-781-0798
Web Site: www.landinst.com
E-Mail: sales@landinst.com
SEE AD ON PAGE 50, 147

Landia Water Cleaning Systems
13705 NE Airport Way
Portland, OR 97230
Phone: 503-255-5980
Natl: 800-6452632
Fax: 800-535-9164
Web Site: www.landia-inc.com
E-Mail: landia@landia-inc.com

Laurel Environmental Associates Inc
3 Lyn Ct
Huntington, NY 11743
Phone: 516-673-0612
Fax: 516-427-5323
E-Mail: laurel-env@usa.net

LeapFrog Technologies inc
1408 11th Ave Ste 2
Altoona, PA 16601
Phone: 814-949-2600
Natl: 800-443-7647
Fax: 814-949-2616

Lec Technology Inc
PO Box 2522
Huntington, WV 25726
Phone: 304-697-4201
Natl: 800-379-3786
Fax: 304-255-0617
E-Mail: dlee@marshall.edu

Leggette, Brashears & Graham Inc
126 Monroe Turnpike
Trumbull, CT 06611
Phone: 203-452-3111
Fax: 203-452-3122
Web Site: www.lbgweb.com

Leggette, Brashears & Graham Inc
1210 W County Rd E
St Paul, MN 55112
Phone: 612-490-1405
Fax: 612-490-1006
Web Site: www.lbgweb.com
E-Mail: lbgm.com

Lemma USA Inc
1408 Northland Dr Ste 310
St Paul, MN 55120-1013
Phone: 612-688-0836
Fax: 612-688-8813
Web Site: www.lemma.com
E-Mail: sales@lemma.com

Lexicon Environmental Associates Inc
790 E Market St Ste 270
West Chester, PA 19382
Phone: 610-344-3380
Fax: 610-344-3388
E-Mail: lexiconen@aol.com
SEE AD ON PAGE 7, 135

Lindsey Fabricators Inc
760 N Georgia Ave
Azusa, CA 91702
Phone: 626-969-3471
Fax: 626-969-3177
E-Mail: lindseyman@aol.com

Lion Technology Inc
PO Box 700
Lafayette, NJ 07848
Phone: 973-383-0800
Fax: 973-579-6818
E-Mail: lion.com

Liquid Dynamics Corp
36W897 Dean St
St Charles, IL 60174
Phone: 630-513-8366
Fax: 630-513-6447
Web Site: www.glassi.com
E-Mail: mark@glassi.com

Little Beaver Inc
PO Box 840
Livingston, TX 77351
Phone: 409-327-3121
Fax: 409-327-4025
Web Site: www.littlebeaver.com
SEE AD ON PAGE 57, 108

Little-Brooks & Associates
1400 Adams Rd Unit E
Ben Salem, PA 19020
Phone: 215-633-6120
Fax: 215-244-0160

Lockmasters
PO Box 2532
Panama City, FL 32402-2532
Phone: 850-914-2949
Natl: 800-461-0620
Fax: 850-914-9754

Logic Beach Inc
8363-6F Center Dr
La Mesa, CA 91942
Phone: 619-698-3300
Fax: 619-469-8604
Web Site: www.logicbeach.com
E-Mail: loggers@logicbeach.com

Louis R Hovater Consulting Engineer
3635 Goya Ct
Pensacola, FL 32504
Phone: 850-432-5976
Fax: 850-432-5976

Louisville Ladder Corp
1163 Algonquin Pkwy
Louisville, KY 40206
Phone: 502-636-2811
Natl: 800-666-2811
Fax: 502-636-9304
Web Site: www.louladder.com

Lutz Pumps Inc
1160 Beaver Run Rd
Norcross, GA 30093
Phone: 770-925-1222
Natl: 800-443-3901
Fax: 770-923-0334

M J S & Associates
2916 Nordman Ave
New Smyrna, FL 32168
Phone: 904-428-0978
Fax: 904-428-0978
Web Site: www.freeyellow.com/
members2/funzintex
E-Mail: mjspsagqucnbs.net

MEGA Systems & Chemicals
450 N McKern Ave
Chandler, AZ 85226
Phone: 602-437-9105
Natl: 800-690-6342
Fax: 602-705-4319
Web Site: www.megasyschem.com

MGS Inc
178 Muddy Creek Church Rd
Denver, PA 17517
Phone: 717-336-7528
Natl: 800-952-4228
Fax: 717-336-0514

MIE Inc (Monitoring Instruments for the Environment)
7 Oak Park
Bedford, MA 01730
Phone: 781-275-1919
Natl: 888-643-4968
Fax: 781-275-2121
Web Site: www.mieinc.com

MITI Manufacturing
2996 Teller Ct
Grand Junction, CO 81504
Phone: 970-243-9500
Fax: 970-243-9200
Web Site: www.mitico.com
E-Mail: services@mitico.com

MKS Instruments - HPS Vacuum Products
5330 Sterling Dr
Boulder, CO 80301
Phone: 303-449-9861
Natl: 800-345-1967
Fax: 303-442-6880

MMC International Corp
60 Inip Dr
Inwood, NY 11096
Phone: 516-239-7339
Natl: 800-645-7339
Fax: 516-371-3134
Web Site: www.mmcintl.com
E-Mail: mmcintl@aol.com

MPC Containment Systems Ltd
4834 S Oakley

Chicago, IL 60609
Phone: 773-927-4120
Natl: 800-621-0146
Fax: 773-650-6028

MPC Environmental
301 W Rising
Davison, MI 48423
Phone: 810-658-1700
Fax: 810-653-5655

MST-Modern Safety Techniques
PO Box 87
Hicksville, OH 43526
Phone: 419-542-6645
Natl: 800-542-6646
Fax: 419-542-6475

Magellan Systems Corp
960 Overland Ct
San Dimas, CA 91773
Phone: 909-394-5000
Natl: 800-669-4477
Fax: 909-394-7050
Web Site: www.magellangps.com

Malcom Co-Leister Hot Air Systems
25 Abbot St
Andover, MA 01810
Phone: 401-683-3199
Natl: 800-289-7505
Fax: 401-682-1904
Web Site: www.malcom.com
E-Mail: malcom@aqua.net

Mapa Professional
512 E Tiffin St
Willard, OH 44890
Phone: 419-933-2211
Natl: 800-537-2897
Fax: 419-933-2710
Web Site: www.mapaglove.com
E-Mail: sales@mapaglove.com
SEE AD ON PAGE 109, 187

Mar Mac Manufacturing Co Inc
PO Box 278
McBee, SC 29101-0278
Phone: 803-335-8211
Natl: 800-845-6962
Fax: 803-335-8599
Web Site: www.marmac.com
E-Mail: info@marmac.com

Mark Schultz Associates
1202 West St
Annapolis, MD 21401
Phone: 410-263-8538
Fax: 410-626-6194
E-Mail: msahydro@compuserve.com

Marketing Counselors International Inc
PO Box 9870
Santa Fe, NM 87504
Phone: 505-982-9792
Fax: 505-982-1306

Mars Mineral
PO Box 719
Mars, PA 16046
Phone: 412-538-3000
Fax: 412-538-5078

Martin Marietta Magnesia Specialties
800-648-7400

Martin Marietta Magnesia Specialties Inc
PO Box 15470
Baltimore, MD 21220-0470
Phone: 410-780-5500
Natl: 800-648-7400
Fax: 410-780-5777
Web Site: www.martinmarietta.com
SEE AD ON PAGE 165

Maxon Industries Inc
3204 W Mill Rd
Milwaukee, WI 53209
Phone: 414-351-4000
Natl: 800-236-9944
Fax: 414-351-9057
Web Site: www.maxon.com
E-Mail: sales@maxon.com

Mazzei Injector Corp
500 Rooster Dr
Bakersfield, CA 93307
Phone: 805-363-6500
Fax: 805-363-7500
Web Site: www.mazzei-injector.com
SEE AD ON PAGE 87, 160

McGill Aircrew Corp
1779 Refuge Rd
Columbus, OH 43207-2119
Phone: 614-443-0192
Fax: 614-445-8759

McMillan Co
PO Box 1340
Georgetown, TX 78627
Phone: 512-863-0231
Natl: 800-861-0231
Fax: 512-863-0671
Web Site: www.mcmillancompany.com
E-Mail: info@mcmillancompany.com

McPhee Environmental Supply
11460 N Cave Creek Rd Ste 1
Phoenix, AZ 85020
Phone: 602-943-9565
Natl: 888-608-4637
Fax: 602-944-6559
Web Site: www.mcphee-env.com

Medic-Air Corp of America
1963 Palmer Ave
Larchmont, NY 10538
Phone: 914-834-2727
Natl: 800-247-7455
Fax: 914-834-2045

Medical Coaches Inc
PO Box 129
Oneonta, NY 13820
Phone: 607-432-1333
Fax: 607-432-8190

Megator Corp
562 Alpha Dr
Pittsburgh, PA 15238
Phone: 412-963-9200
Natl: 800-245-6211
Fax: 412-963-9214

Mercury Technologies Intl LP
3 Gold Mine Rd
Flanders, NJ 07836
Phone: 973-691-7300
Natl: 800-554-2372
Fax: 973-691-7326
Web Site: www.aerc-mit.com
E-Mail: jgresk@aol.com

Met One Instruments Inc
1600 Washington Blvd
Grants Pass, OR 97526
Phone: 541-471-7116
Fax: 541-471-7116
Web Site: www.metone.com
E-Mail: metone@metone.com
SEE AD ON PAGE 87, 162

Metal Samples/Cortest Instrument Systems
152 Metal Samples Rd
Munford, AL 36268
Phone: 205-358-4202
Fax: 205-358-4515
Web Site: www.alspi.com
E-Mail: msc@alspi.com

Metco Environmental
PO Box 598
Addison, TX 75001
Phone: 972-931-7127
Natl: 800-394-1194
Fax: 972-931-8398

Metropolitan Manufacturers Association
10733 Big Bend Rd
St Louis, MO 63122-6027
Phone: 314-966-1006

Metrosonics Inc
PO Box 23075
Rochester, NY 14692
Phone: 716-334-7300
Fax: 716-334-2635
Web Site: www.metrosonics.com
E-Mail: salesinfo@metrosonics.com

Metrotech Corp
488 Tasman Dr
Sunnyvale, CA 94089
Phone: 408-734-1400
Natl: 800-446-3392
Fax: 408-734-1415
Web Site: www.metrotechcorp.com
E-Mail: sales@metrotech

Microbial Insights Inc
2340 Stock Creek Blvd
Rockford, TN 37853
Phone: 423-573-8188
Fax: 423-573-8133
Web Site: www.microbe.com
E-Mail: microbe@microbe.com

Mid America Railway Supply Inc
PO Box 779
Bridgeton, MO 63044
Phone: 314-770-2233
Fax: 314-770-1994

Midac Corp
17911 Fitch Ave
Irvine, CA 92614
Phone: 714-660-8558
Fax: 714-660-9334
Web Site: www.midac.com
E-Mail: info@midac.com

Midland Metal Mfg Co
1219 Lydia Ave
Kansas City, MO 64106
Phone: 800-821-5725
Fax: 800-877-5391
Web Site: www.midlandmetal.com
E-Mail: midbrass@aol.com

Midwest Center for Occupational Health & Safety
640 Jackson St
St Paul, MN 55101
Phone: 612-221-3992
Fax: 612-292-4773

Midwest Research Institute
425 Volker Blvd
Kansas City, MO 64110
Phone: 816-753-7600
Fax: 816-753-8420
Web Site: www.mirresearch.org
E-Mail: dbuncan@mirresearch.org

Miguel A Antonetti & Associates
19 Willowawn St
Buffalo, NY 14214-2328
Phone: 716-835-6824
Fax: 716-835-1529
E-Mail: latinecol@aol.com

Mil-Ram Technology Inc
2360 Queme Dr Ste C
San Jose, CA 95131
Phone: 408-324-6600
Natl: 888-464-5726
Fax: 408-324-1661
Web Site: www.mil-ram.com
E-Mail: sls@mil-ram.com

Milltronics Inc
709 Stadium Dr
Arlington, TX 76011
Phone: 817-277-3543
Fax: 817-277-3894
Web Site: www.milltronics.com
E-Mail: freelit@milltronics.com
SEE AD ON PAGE 66, 124

Mincy Inc
PO Box 81692
Mobile, AL 36689
Phone: 334-342-0024
Fax: 334-344-8027
Web Site: www.concentric.net/~mincy
E-Mail: mincy@cris.com

Mine Safety Appliances Co
PO Box 426
Pittsburgh, PA 15230
Phone: 800-672-2222
Fax: 800-967-0398
Web Site: www.msanet.com
E-Mail: info@msanet.com

Miox Corp
5500 Midway Park Pl
Albuquerque, NM 87109
Phone: 505-343-0090

Natl: 888-MIOX-H2O
Fax: 505-343-0093
Web Site: www.miox.com
E-Mail: info@miox.com

Misonix Inc
1938 New Hwy
Farmingdale, NY 11735
Phone: 516-694-9555
Natl: 800-645-9846
Fax: 516-694-9412
Web Site: www.misonix.com
E-Mail: msonmyst@aol.com
SEE AD ON PAGE 18, 143

Modern Technologies Corp
4032 Linden Ave
Dayton, OH 45432
Phone: 937-252-9199
Fax: 937-252-9227
Web Site: www.eld.modtechcorp.com
E-Mail: dheadley@eld.modtechcorp.com

Monarch Instrument
15 Columbia Dr
Amherst, NH 03031
Phone: 603-883-3390
Natl: 800-999-3390
Fax: 603-886-3300
Web Site: www.monarchinstrument.com
E-Mail: sales@monarchinstrument.com

Monitek Technologies Inc
1495 Zephyr Ave
Hayward, CA 94544
Phone: 510-471-8300
Natl: 800-458-4454
Fax: 510-471-8647
Web Site: www.sentexmonitek.com
E-Mail: sentexmonitek.com

 **314-275-5907**

Monsanto Enviro-Chem Systems
14522 S Outer Forty Rd
St Louis, MO 63017
Phone: 314-275-5700
Fax: 314-275-5701
Web Site: www.enviro-chem.com
E-Mail: enviroch@monsanto.com

Morian & Morlan Inc
PO Box 5945
Shreveport, LA 71135
Phone: 318-797-3560
Fax: 318-797-3560

 **MORRISON KNUDSEN CORPORATION**
208-386-7150

Morrison Knudsen Corp
PO Box 73
Boise, ID 83729
Phone: 208-386-5000
Fax: 208-386-5658
Web Site: www.mk.com

 **Morton**
312-807-2345

Morton International
100 N Riverside Plaza
Chicago, IL 60606
Phone: 312-807-3127
Fax: 312-807-3460
Web Site: www.morton.com

Moshman Environmental Engineering
2700 Central Park Ave
Evanston, IL 60201
Phone: 847-869-6770
Fax: 847-824-2647
Web Site: www.meridianone.com
E-Mail: dmoshman@msn.com

Mother Oil Remediation
1124 Purina Dr
Gainesville, GA 30501

Phone: 770-534-3119
Fax: 770-534-3117
SEE AD ON PAGE 53, 110

Mott Corp
84 Spring Ln
Farmington, CT 06032
Phone: 860-747-6533
Natl: 800-289-6688
Fax: 860-747-6739

Mountain Valley Ventures Inc
PO Box 85097
Tucson, AZ 85754
Phone: 520-743-4036
Natl: 800-597-0618
Fax: 520-743-4072

Munters Corporation - Zeol Division
79 Monroe St
Amesbury, MA 01913
Phone: 978-241-1103
Phone: 800-843-5360
Fax: 978-241-1220
Web Site: www.munters.com/zeol
E-Mail: sales-zeol@americas.munters.com

Myron L Co
6115 Corte Del Cedro
Carlsbad, CA 92009
Phone: 760-438-2021
Fax: 760-931-9189

Mystic Air Quality Consultants Inc
1204 North Rd
Groton, CT 06340
Phone: 800-247-7746
Fax: 860-449-8860
E-Mail: magcq@aol.com

 **N B Olewine Co Inc**
120 Broadway Ste 1117
New York, NY 10271
Phone: 212-227-7220
Natl: 800-521-9244
Fax: 212-732-4037
Web Site: www.mar.com/rodite
E-Mail: nlewine@ix.netcom.com

NEEP Systems
17 Technology Dr
West Lebanon, NH 03784
Phone: 603-298-7061
Fax: 603-298-7063

NES Inc
44 Shelter Rock Rd
Danbury, CT 06810
Phone: 203-796-5000
Fax: 203-796-5117
E-Mail: bbeck01

NW Center for Occupational Health & Safety
4225 Roosevelt Way Ste 100
Seattle, WA 98105
Phone: 206-543-1069
Fax: 206-685-3872
Web Site: www.sphcm.washington.edu/deh
E-Mail: ce@u.washington.edu

Nagle Pumps Inc
1249 Center Ave
Chicago Heights, IL 60411
Phone: 708-754-2940
Fax: 708-754-2944

Nalco Chemical Co
One Nalco Ctr
Naperville, IL 60563-1198
Phone: 630-305-1000
Fax: 630-305-2900
Web Site: www.nalco.com

Nasco
901 Janesville Ave
Fort Atkinson, WI 53538-0901
Phone: 920-563-2446
Natl: 800-558-9595
Fax: 920-563-8296
Web Site: www.nasco.com
E-Mail: info@nasco.com

Nassef Engineering & Equipment Co Inc
301 W Nine Mile Rd
Pensacola, FL 32534-1819
Phone: 850-484-2700
Fax: 850-484-0706
E-Mail: last2kh

National Quality Assurance USA
4 Post Office Square Rd
Acton, MA 01720
Phone: 978-635-9256
Natl: 800-649-5289
Fax: 978-263-0785
E-Mail: naq@interamp.com

National Registry of Environmental Professionals
PO Box 2099
Glenview, IL 60025
Phone: 847-724-6631
Fax: 847-724-4223
Web Site: www.nrep.org
E-Mail: nrep@primenet.com

National Technical Information Service
5285 Port Royal Rd
Springfield, VA 22161
Phone: 703-605-6000
Natl: 800-553-6847
Fax: 703-321-8547
Web Site: www.ntis.gov
E-Mail: orders@ntis.fedworld.gov

National Technical Systems
5743 Smithway St
City of Commerce, CA 90040
Phone: 213-838-9250
Natl: 800-434-7431
Fax: 213-838-9252
Web Site: www.ntscorp.com

Neoterik Health Technologies Inc
401 S Main St
Woodsboro, MD 21798
Phone: 301-845-2777
Fax: 301-845-2213
E-Mail: sales@neoterik.com

Neptune Chemical Pump Co
PO Box 247
Lansdale, PA 19446
Phone: 215-699-8701
Fax: 215-699-0370
Web Site: www.neptunel.com
E-Mail: pump@neptunel.com

Neptune Mixer Co
PO Box 247
Lansdale, PA 19446
Phone: 215-699-8701
Fax: 215-699-0370
Web Site: www.neptunel.com
E-Mail: pump@neptunel.com

Network Environmental Systems Inc
10933 Trade Center Dr Ste 108
Rancho Cordova, CA 95670
Phone: 916-853-9400
Phone: 916-853-2384
Fax: 916-853-8526
Web Site: www.nes-hazmat.com
E-Mail: nessstaff@ix.netcom.com

New Environment Inc
PO Box 205
Brookfield, OH 44003
Phone: 330-448-7901
Natl: 800-732-3073
Fax: 330-448-6809
Web Site: www.newenv.com

New Pig Corp
One Pork Ave
Tipton, PA 16684
Phone: 814-684-0101
Natl: 800-HOT-HOGS
Fax: 800-621-7447
Web Site: www.newpig.com
E-Mail: hothogs@newpig.com

New York Blower Co
7660 Quincy St
Willowbrook, IL 60521
Phone: 630-794-5700
Fax: 630-794-5776
Web Site: www.nyb.com
E-Mail: nyb@nyb.com

Newport Electronics Inc
2229 S Yale St
Santa Ana, CA 92704-4426
Phone: 714-540-4914
Natl: 800-NEWPORT
Fax: 714-546-3022
Web Site: www.newportelect.com
E-Mail: info@newportelect.com

Nielsons Inc
PO Box 1660
Cortez, CO 81321
Phone: 970-565-8000
Fax: 970-565-0118
E-Mail: ceastin@nielsons.com

Niro Inc
1600 O'Keefe Rd
Hudson, NY 54016
Phone: 715-386-9371
Fax: 715-386-9376

Niro Inc
9165 Rumsey Rd
Columbia, MD 21774
Phone: 410-997-8700
Fax: 410-997-5021
Web Site: www.niroinc.com
E-Mail: smb@niroinc.com

Normandeau Associates
25 Nashua Rd
Bedford, NH 03110-5500
Phone: 603-472-5191
Fax: 603-472-7052
E-Mail: nai@nh.ultranet.com

 **314-275-5907**

NuTech Environmental Corp
5350 N Washington St
Denver, CO 80216
Phone: 303-295-3702
Natl: 800-321-8824
Fax: 303-295-6145
Web Site: www.nutechenvironmental.com
E-Mail: nutech@sni.net

 **OI Analytical**
PO Box 9010
College Station, TX 77842
Phone: 409-690-1711
Natl: 800-653-1711
Fax: 409-690-0440
Web Site: www.oico.com
E-Mail: oimail@oico.com

Occupational Training & Supply Inc
12601 S Springfield Ave
Alsip, IL 60803
Phone: 708-385-1325
Fax: 708-385-1751
E-Mail: otstrain@aol.com

Occusafe Inc
240 E Lake St
Addison, IL 60101
Phone: 630-941-3001
Natl: 8003237597
Fax: 630-941-3865
Web Site: www.quickpage.com/o/occusafe
E-Mail: occusafe@compuserve.com

Odor Control Co Inc
PO Box 5740
Scottsdale, AZ 85261-5740
Phone: 602-948-3956
Natl: 888-948-3956
Fax: 602-451-1010
Web Site: www.odorcontrolco.com
E-Mail: noodors@msn.com

Odor Management Inc
18-4 E Dundee Rd Ste 200
Barrington, IL 60010
Phone: 847-304-9111
Natl: 800-662-6367
Fax: 847-304-0989

Web Site: www.odormanagement.com
E-Mail: ecosorb@goldengate.net

Odom Management Technologies

PO Box 86
Lesueur, MN 56058
Phone: 507-665-8800
Natl: 888-665-6367
Fax: 507-665-3520
Web Site:
www.prairie.lakes.com/~plonske
E-Mail:
plonske@prairie.lakes.com

Off-Road Conversions Inc -

MATTRACK
Route 2 Box 299
Badger, MN 56714
Phone: 218-528-4828
Fax: 218-528-2761

Ohaus Corp

29 Hanover Rd
Florham Park, NJ 07932
Phone: 973-377-9000
Natl: 800-672-7722
Fax: 973-593-0359
Web Site: www.ohaus.com

Oil Skimmers Inc

PO Box 33092
Cleveland, OH 44133
Phone: 440-237-4600
Natl: 800-200-4603
Fax: 440-582-2759

SEE AD ON PAGE 55, 145

Oklahoma State University

512 Engineering N
Stillwater, OK 74078
Phone: 405-744-5714
Fax: 405-744-5369
Web Site:
www.master.ceat.okstate.edu/grad
E-Mail:
gcollin@okway.okstate.edu

Omega Engineering Inc

One Omega Dr
Stamford, CT 06907
Phone: 203-359-1660
Natl: 800-826-6342
Fax: 203-359-7700
Web Site: www.omega.com
E-Mail: info@omega.com
SEE AD ON PAGE 2, 133

Omega-Vanzetti Inc

Six Merchant St Pinehill Pk
Sharon, MA 02067
Phone: 617-784-4733
Fax: 617-784-2447
Web Site: www.vanzetti.com
E-Mail: info@vanzetti.com

Omegadyne Inc

149 Seltzer Ct
Sunbury, OH 43074
Phone: 614-965-9340
Natl: 800-872-3963
Fax: 614-965-9438
Web Site: www.omegadyne.com
E-Mail: info@omegadyne.com

Omni Professional Environmental Associates PA

PO box 13404
Research Triangle Park, NC
27709-3404
Phone: 919-544-5442
Natl: 800-951-7625
Fax: 919-544-5708
E-Mail:
omnipro@mindspring.com

Onron Enterprises

269 Cross Rd
Alamo, CA 94507
Phone: 510-855-0905
Fax: 510-831-4960
E-Mail: zweb@aol.com

Onset Computer Corp

470 MacArthur Blvd
Bourne, MA 02532
Phone: 508-759-9500
Fax: 508-759-9100
Web Site: www.onsetcomp.com
E-Mail: sales@onsetcomp.com

Ontario Center for Environmental

Technology Advancement
63 Polson St 2nd Fl
Toronto ON Canada, M5A 1A4
Phone: 416-778-5264
Fax: 416-778-5624
Web Site: www.oceta.on.ca
E-Mail: oceta@oceta.on.ca

Optimal Technologies Inc

575 William Pitt Way
Pittsburgh, PA 15238
Phone: 412-828-7330
Natl: 888-838-7330
Fax: 412-828-7338
E-Mail:
optimaltechnologies@worldnet.att.net

Orbeco Analytical Systems Inc

185 Marine St
Farmingdale, NY 11735
Phone: 516-293-4110
Natl: 800-922-5242
Fax: 516-293-8258

Orec Ozone

Systems/Osmonics
5951 Clearwater Dr
Minnetonka, MN 55343
Phone: 602-931-7332
Natl: 888-321-8200
Fax: 602-931-7727
Web Site: www.osmonics.com
E-Mail: osmonics@worldnet.att.net

Orion Research Inc

500 Cummings Ctr
Beverly, MA 01915
Phone: 978-922-4400
Natl: 800-225-1480
Fax: 978-927-3932
Web Site: www.orionres.com
E-Mail: webmaster@orionres.com

Osmonics

5951 Clearwater Dr
Minnetonka, MN 55343
Phone: 612-933-2277
Natl: 800-488-1750
Fax: 612-933-0141
Web Site: www.osmonics.com
E-Mail: osmonics@worldnet.att.net
SEE AD ON PAGE 151, 188

Oxford Molecular Group Inc/CIS

2105 S Bascom Ave Ste 200
Campbell, CA 95008
Phone: 408-879-6300
Natl: 800-876-9994
Fax: 408-879-6302
Web Site: www.oxmol.com
E-Mail: products@oxmol.com

Ozonia North America Inc

PO Box 455
Elmwood Park, NJ 07407
Phone: 201-794-3100
Fax: 201-794-3358
Web Site:
www.ozonianorthamerica.com
E-Mail:
105452.2507@compuserve.com
SEE AD ON PAGE 81, 155

P**P E LaMoreaux & Associates**

PO Box 2310
Tuscaloosa, AL 35403
Phone: 205-752-5543
Natl: 800-811-9366
Fax: 205-752-4043
Web Site: www.pela.com
E-Mail: pela@dbtech.net

P J Products Co

30 Greenfield Ln
Scituate, MA 02066
Phone: 781-545-0772
Fax: 781-545-0772

PBR Industries

143 Cortland St
Lindenhurst, NY 11757
Phone: 516-226-2930
Natl: 800-842-1630
Fax: 516-226-3125
Web Site: www.pbrind.com
E-Mail: mnrobbs@ibm.net

PCCI Inc

300 N Lee St Ste 201
Alexandria, VA 22314
Phone: 703-684-2060
Natl: 800-935-7542
Fax: 703-684-5343
Web Site: www.ships-service.com/pcci
E-Mail: all@pcci.com

PCI-Wedeco Environmental

Technologies Inc
One Fairfield Crescent
West Caldwell, NJ 07006
Phone: 973-575-7052
Fax: 973-575-8941
Web Site: www.pci-wedeco.com
E-Mail: sales@pci-wedeco.com

PE Photovac

761 Main Ave
Nowalk, CT 06859-0211
Phone: 203-761-5330
Natl: 888-732-4766
Fax: 203-761-2677
Web Site:
www.perkin-elmer.com/photo
E-Mail: permktg@perkin-elmer.com
SEE AD ON PAGE 79, 144

PND Corp

14320 NE 21st St Ste 6
Bellevue, WA 98007
Phone: 425-562-7252
Fax: 425-562-7254

PRO Scientific Inc

PO Box 448
Monroe, CT 06468
Phone: 203-452-9431
Fax: 203-452-9753
Web Site: www.proscientific.com
E-Mail: prosci@aol.com

PacTec Inc

PO Box 8069
Clinton, LA 70722
Phone: 504-683-8602
Natl: 800-272-2832
Fax: 504-683-8711
Web Site: www.eatel.net/~pactecjd
E-Mail: pactecmsa@eatel.net

Pace Environmental

Products Inc
5240 W Coplay Rd
Whitehall, PA 18052
Phone: 610-262-3818
Natl: 800-303-4532
Fax: 610-262-4445
Web Site: www.paceccms.com
E-Mail: paceccms@junio.com

Pacific Environmental Services Inc

560 Herndon Pkwy Ste 200
Herdon, VA 20170-5240
Phone: 703-471-8383
Fax: 703-481-8296
Web Site: www.pes.com/pes
E-Mail: tlipuma@hrn.pes.com

Pacific Environmental Services Inc

5001 S Miami Blvd Ste 300
Research Triangle Park, NC
27709-2077
Phone: 919-941-0333
Fax: 919-941-0234
Web Site: www.pes.com/i-s/step
E-Mail: lbrown@rt.pes.com

Packaging Research & Design

PO Box 678
Madison, MS 39130
Phone: 601-856-9791
Natl: 800-833-9364
Fax: 601-853-1202

Pall Corporation

2200 Northern Blvd
East Hills, NY 11548
Phone: 516-484-5400
Natl: 800-673-7255
Fax: 516-484-0364
Web Site: www.pall.com
E-Mail: custsvr@pall.com

Panametrix Inc

221 Crescent St
Waltham, MA 02154
Phone: 781-899-2719

Natl: 800-833-9438
Fax: 781-894-8582
Web Site: www.panametrix.com
E-Mail: pei@panametrix.com

Pantera Environmental

Consulting/Real Estate Recovery
2158 45th Ave Ste 430
Highland, IL 60322
Phone: 630-716-7278
Fax: 219-922-1545

Patrick Engineering Inc

22W600 Butterfield Rd
Glen Ellyn, IL 60137
Phone: 630-790-7600
Natl: 800-799-7050
Fax: 630-790-8500
Web Site:
www.patrickengineering.com
E-Mail:
jschuh@patrickengineering.com

Peek Measurement A Thermo

Electron Co
10335 Kandsbury Ste 300
Houston, TX 77099-3407
Phone: 281-879-3700
Fax: 281-498-7721
Web Site: www.peakmeas.com
E-Mail: kai@flash.net

**Penn Environmental &**

Remediation Inc
2755 Bergey Rd
Hatfield, PA 19440
Phone: 215-997-9000
Fax: 215-922-8575
E-Mail: djs@penn-er.com

Pennwall India Ltd

PO Box 297
Albertson, NY 11507
Phone: 516-621-6510
Fax: 516-621-7731
Web Site: www.pennwall.com

Pentek Inc

1026 Fourth Ave
Coraopolis, PA 15108
Phone: 412-262-0725
Fax: 412-262-0731
Web Site: www.pentekusa.com
E-Mail: pentekusa@aol.com

Perma Pure Inc

8 Executive Dr
Toms River, NJ 08754
Phone: 732-244-0010
Natl: 800-337-3762
Fax: 732-244-8140
Web Site:
www.industry-net/perma-pure
E-Mail: perma-pure@industry.net

Petro-Green Inc

PO Box 814665
Dallas, TX 75381
Phone: 972-484-7336

Petro-Steel

1909 S Rowley
Mitchell, SD 57301
Phone: 605-996-5571
Natl: 800-232-5682
Fax: 605-996-5572

Petroleum Systems Services Corp

34 Grace Moore Rd
Saratoga Springs, NY 12866
Phone: 518-581-0189
Fax: 518-581-0201
E-Mail: psscl@junio.com

Phase I Environmental Inc

409 N Loop 336 Ste 5
Conroe, TX 77301
Phone: 409-788-8252
Fax: 409-788-8289
E-Mail: johndam@iamerica.net

Philip Services Corp/Industrial

Services Group
31 Waldron Way

Portland, ME 04103
Phone: 800-272-7338
Fax: 888-491-7400

Phipps & Bird

1519 Summit Ave
Richmond, VA 23230-4511
Phone: 804-254-2737
Natl: 800-955-7621
Fax: 804-254-2955
Web Site: www.phippsbird.com
E-Mail: phippsbird@aol.com

Phoenix Process Equipment

2402 Watterson Trail
Louisville, KY 40299
Phone: 502-499-6198
Fax: 502-499-1079
SEE AD ON PAGE 31, 163

Phyto Works Inc

1400 Mill Creek Rd
Gladwyne, PA 19035
Phone: 610-896-9949
Fax: 610-896-9950
E-Mail: phytoworks@aol.com

Plast-O-Matic Valves Inc

1384 Pompton Ave
Cedar Grove, NJ 07009
Phone: 973-255-3000
Fax: 973-256-4745
Web Site: www.plastomatic.com

Plasti-Fab Inc

9665 Tualatin-Sherwood Rd
Tualatin, OR 97062
Phone: 503-692-5460
Fax: 503-692-1145
Web Site: www.plasti-fab.com
E-Mail: sales@plasti-fab.com

Plastic Film Enterprises Inc

1921 Bellaire Ave
Royal Oak, MI 48067
Phone: 248-399-0450
Natl: 800-574-6553
Fax: 248-399-2534

Pneumafil Corp

PO Box 16348
Charlotte, NC 28297-8804
Phone: 704-399-7441
Natl: 800-525-1560
Fax: 704-399-7529

Pollution Research

& Technology Inc
12 Medici Ste 200
Laguna Hills, CA 92656
Phone: 714-588-9473
Fax: 714-588-9573
E-Mail: prt4env@aol.com

Polylox Separation

Technologies Inc
PO Box 1004
Dayton, NJ 08810-1004
Phone: 732-274-3103
Natl: 888-249-4469
Fax: 732-274-3144
E-Mail: brickera@pgwin.com

PolySpec Corp

6614 Gant Rd
Houston, TX 77066
Phone: 281-397-0033
Fax: 281-397-6512
Web Site: www.polyspec.com
E-Mail: info@polyspec.com

Powder Coating Institute

2121 Eisenhower Ave Ste 401
Alexandria, VA 22314
Phone: 703-684-1770
Fax: 703-684-1771
Web Site: www.powdercoating.org

Powers Process Controls

3400 Oakton
Skokie, IL 60076
Phone: 847-673-6700
Fax: 847-673-9044

Precision Analysis Inc

22 Orvieto
Florissant, MO 63031
Phone: 314-838-5052
Fax: 314-838-5052

Precision Multiple Controls

Precision Multiple Controls

33 Greenwood Ave
Midland Park, NJ 07432
Phone: 201-444-0600
Fax: 201-445-8575
E-Mail:
precisionmultiple@worldnet.att.net

Precision Wire Products Inc

207 E Brown St
Blairsville, PA 15717
Phone: 412-459-5601
Fax: 412-459-0559

Premier Safety & Service Inc

516 Parkway View Dr
Pittsburgh, PA 15205
Phone: 412-788-4415
Natl: 800-828-1080
Fax: 412-788-6628
E-Mail: prestysyer@aol.com

Premier Services Corp

7251 Engle Rd Ste 415
Middleburg Heights, OH 44130
Phone: 440-234-4600
Natl: 800-227-4287
Fax: 440-234-5772
Web Site: www.ampremier.com

Price Pump Co

PO Box Q
Sonoma, CA 95476
Phone: 707-938-9441
Fax: 707-938-0764
Web Site: www.pricepump.com
E-Mail: sales@pricepump.com

Princeton-Somerset Group Inc

4 Carroll Dr
Somerville, NJ 08876
Phone: 908-369-6890

Probiotic Solutions

201 S Roosevelt Ave
Chandler, AZ 85226
Phone: 602-961-1220
Natl: 800-961-1220
Fax: 602-961-3501
Web Site: www.probiotic.com
E-Mail: probiotic@probiotic.com
SEE AD ON PAGE 63, 144

Process Combustion Corp

5460 Homing Rd
Pittsburgh, PA 15238-2822
Phone: 412-655-0955
Fax: 412-650-5589
E-Mail: pcc@usa.net

Process Packaging & Control Inc

65 Aviation Ave
Portsmouth, NH 03801
Phone: 603-430-1118
Fax: 603-430-1114

Process Technologies Inc

1160 Exchange St
Boise, ID 83716
Phone: 208-385-0900
Fax: 208-385-0994
E-Mail: mswan@rmci.net

Professional Analytical & Consulting Systems Inc

409 Meade Dr
Corapolis, PA 15108
Phone: 724-457-6576
Natl: 800-367-2587
Fax: 724-457-1214
Web Site: www.members.aol.com/
hnpacs/pacs.htm
E-Mail: hnpacs@aol.com

Progressive Equipment Corp

413 E 9th St
Erie, PA 16503
Phone: 814-452-4363
Natl: 800-548-6089
Fax: 814-459-3094

Protech Co

32 Fremont St
Needham, MA 02194
Phone: 781-444-5188
Fax: 781-444-0130
Web Site: www.protechco.com
E-Mail: mmorrill@protechco.com
SEE AD ON PAGE 29, 31, 145, 147

Protectowire Co Inc

PO Box 200
Hanover, MA 02339
Phone: 781-826-3878
Fax: 781-826-2045
Web Site: www.protectowire.com

Pumpex Inc

103A Molasses Hill Rd
Lebanon, NJ 08833
Phone: 908-730-7004
Fax: 908-730-7580
SEE AD ON PAGE 159

Purac Engineering

4550 New Linden Hill Rd Ste 500
Wilmington, DE 19808
Phone: 302-996-0545
Fax: 302-996-0544

Q

Q Financial Group

457 N Harrison St
Princeton, NJ 08540
Phone: 609-924-9394
Fax: 609-924-3935

QED Environmental Systems Inc

PO Box 3726
Ann Arbor, MI 48106
Natl: 800-624-2026

Quadrel Services Inc

1896 Urbana Pike Ste 20
Clarksburg, MD 20871
Phone: 301-874-5510
Natl: 800-878-5510
Fax: 301-874-5567
E-Mail: quadrel@erols.com

Quality Assurance Associates

1007 Francis Dr
College Station, TX 77840
Phone: 409-694-7199
Fax: 409-694-7199
Web Site: www.netcom.com/~qaa
E-Mail: qaa@ix.netcom.com

Quantum Compliance Systems Inc

4251 Plymouth Rd Ste 1200
Ann Arbor, MI 48105
Phone: 734-761-2175
Fax: 734-761-3058
Web Site: www.qcs-facts.com
E-Mail: quantum@qcs-facts.com
SEE AD ON PAGE 13, 131

Quelle Corp

PO Box 291188
Port Orange, FL 32129-1188
Phone: 904-767-5336
Natl: 8007495336
Fax: 800-749-5330

R

R & D Dimensions

PO Box 70-95
Redondo Beach, CA 90277
Phone: 310-316-3520
Fax: 310-316-0686
E-Mail: rddimen@aol.com

R B Consulting Services

2412 Teagarden St
San Leandro, CA 94577
Phone: 510-895-5104
Fax: 510-895-5104

R S Technical Services Inc

1327 Clegg St
Petaluma, CA 94954
Phone: 707-778-1974
Natl: 800-767-1974
Fax: 707-778-1981
Web Site: www.rs-technical.com
E-Mail: aida@rs-technical.com

R T Corporation

PO Box 1346
Laramie, WY 82070
Phone: 307-742-5452
Natl: 800-576-5690
Fax: 307-745-7936
E-Mail: rtrefmat@aol.com

RACO Engineering & Manufacturing

1400 62nd St

Emeryville, CA 94608

PO Box 200
Hanover, MA 02339
Phone: 781-826-3878
Fax: 781-826-2045
Web Site: www.protectowire.com

RAE Systems Inc

680 W Maude Ave Ste 1
Sunnyvale, CA 94086
Phone: 408-481-4999
Fax: 408-481-4998
Web Site: www.raesystems.com
E-Mail: raesysm@ix.netcom.com

REECO

Rte 22 W & Station Rd
Branchburg, NJ 08876
Phone: 908-685-4000
Fax: 908-685-4181
Web Site: www.reeco.com

RGF Environmental Systems Inc

3875 Fiscal Ct
W Palm Beach, FL 33404
Phone: 561-848-1826
Natl: 800-942-7771
Fax: 561-848-9454
Web Site: www.rgf.com
E-Mail: rgf.com

RMT Machinery Inc

4915 Van Epps Rd
Cleveland, OH 44131
Phone: 216-351-8900
Fax: 216-351-9508

Racal Health & Safety Inc

7305 Executive Way
Frederick, MD 21704
Phone: 301-695-8200
Natl: 800-682-9500
Fax: 301-695-4413
Web Site: www.racalhealth.com
E-Mail: info@racalhealth.com

RadTech International

North America
60 Revere Dr Ste 500
Northbrook, IL 60062
Phone: 847-480-9576
Fax: 847-480-9282
Web Site: www.radtech.org
E-Mail: uweb@radtech.org

Radtec Environmental Services

261 Kent Ave
Brooklyn, NY 11211
Phone: 718-963-2233
Fax: 718-388-5107

Rain for Rent

PO Box 2248
Bakersfield, CA 93303
Phone: 805-399-9124
Natl: 800-742-7246
Fax: 805-393-1542

RaySolv Inc

39 Golf Links Ave
Piscataway, NJ 08854
Phone: 732-981-0500
Fax: 732-699-9346
E-Mail: raysolv@aol.com

Raymar Medical Corp

16360 Broadway Ave
Cleveland, OH 44137
Phone: 216-475-8360
Natl: 800-350-8848
Fax: 440-473-2032

Raytheon Environmental

& Quality Programs
One Broadway
Cambridge, MA 02142
Phone: 617-494-7100
Fax: 617-494-7953
Web Site: www.raytheon.com
E-Mail:
pat_tracy-callahan@cogate.ueci.com

Reactivities Management Corp

1025 Executive Blvd Ste 101
Chesapeake, VA 23320
Phone: 757-436-1033
Natl: 800-232-6742
Fax: 757-548-2808
Web Site: www.safetyonline.net/

safetcon/rmc/rmc.hinc

E-Mail: cwaltonmc@aol.com

Red Valve Co Inc

700 N Bell Ave
Carnegie, PA 15106
Phone: 412-279-0044
Fax: 412-279-7878
Web Site: www.redvalve.com
E-Mail: valves@redvalve.com

Reef Industries Inc

PO Box 750250
Houston, TX 77275-0250
Phone: 713-507-4200
Natl: 800-231-6074
Fax: 713-507-4295
Web Site: www.reefindustries.com
E-Mail: ri@reefindustries.com

RegScan Inc

605 W Fourth St
Williamsport, PA 17701
Phone: 717-323-1010
Natl: 800-734-7222
Fax: 717-323-8086
Web Site: www.regscan.com
E-Mail: info@regscan.com
SEE AD ON PAGE 15, 129

Regin Hvac Products Inc

PO Box 2851
Stamford, CT 06906
Phone: 203-323-0115
Natl: 800-394-2739
Fax: 203-327-7295
Web Site: www.regin.com

Regulatory Compliance

Management Inc
5400 East Ave
Countryville, IL 60525
Phone: 708-485-8600
Fax: 708-485-8607
Web Site: www.rclmb.com

Research Products/Blankenship

2639 Andon Dr
Dallas, TX 75220
Phone: 214-358-4238
Natl: 800-527-5551
Fax: 214-350-7919
Web Site: www.incinole.com
E-Mail: incinole@incinole.com

Research-Cottrell

Rt 22 W & Station Rd
Branchburg, NJ 08876
Phone: 908-685-4000
Fax: 908-685-4074

ResinTech Inc

1980 Old Cuthbert Rd
Cherry Hill, NJ 08034
Phone: 609-354-1152
Fax: 609-354-6165
Web Site: www.resintech.com
E-Mail: ixresin@resintech.com

Resochem Corp

16630 Imperial Valley Dr Ste 156
Houston, TX 77060
Phone: 281-999-6111
Natl: 888-897-4696
Fax: 281-999-6181
E-Mail: resochem@flash.net

Resource Management Group Inc

PO Box 487
Grand Haven, MI 49417-0487
Phone: 616-847-1680
Natl: 888-847-1680
Fax: 616-847-9970
E-Mail: rmgh@novagate.com

Response Rentals

1057 E Henrietta Rd
Rochester, NY 14023
Phone: 800-242-3910
Fax: 716-424-2166
Web Site: www.response rentals.com
E-Mail: response@netacc.net

Restek Corp

110 Benner Cir
Belleville, PA 16823
Phone: 814-353-1300
Natl: 800-356-1688
Fax: 814-353-1309

Web Site: www.restekcorp.com

E-Mail: donn@restekcorp.com
SEE AD ON PAGE 56, 146

RevPro, ADV of PRO Scientific Inc

PO Box 488
Monroe, CT 06468
Phone: 203-268-5337
Fax: 203-452-9753
E-Mail: prosci@aol.com

Rexam Mulox Inc

7592 NE Industrial Blvd
Macon, GA 31206
Phone: 912-784-9040
Natl: 800-841-4982
Fax: 912-784-1179
E-Mail:
bill.rhodgins@rexam.com

Rhodia Inc Eco Services

10777 Northwest Frwy
Houston, TX 77092
Phone: 800-521-2289
Natl: 800-521-2289
Fax: 713-683-3316
Web Site:
www.ecoservices-us.rhodia.com

Roberts & Schaefer Co

120 S Riverside Plz
Chicago, IL 60606
Phone: 312-236-7292
Fax: 312-726-2872
E-Mail: tomb@eni.com

Rockware Inc

2221 East St Ste 101
Golden, CO 80401
Phone: 303-278-3534
Natl: 800-175-6745
Fax: 303-278-4099
Web Site: www.rockware.com
E-Mail: rockware@rockware.com

Rocky Mountain

Consultants Inc

825 Delaware Ste 500
Longmont, CO 80501
Phone: 303-655-6283
Fax: 303-665-6959

Roehrig & Associates Inc

2306 Stonebrook Cir
Carrollton, TX 75742
Phone: 972-245-0543
Fax: 972-245-0543

Ronald L Beethe, CIH

400 Alvarado NE
Albuquerque, NM 87108
Phone: 505-268-5829
Fax: 505-266-9554
E-Mail: rbeeth@flash.net

Ronco Textile Products Inc

1405 E Lake Ave
Peoria Heights, IL 61614
Phone: 309-685-7266
Fax: 309-685-9609

Rosedale Products Inc

3730 W Liberty
Ann Arbor, MI 48103
Phone: 734-665-8201
Natl: 800-821-5373
Fax: 734-665-2214
Web Site:
www.rosedale-products.com
E-Mail: info@rosedale-products.com

Rosemount Analytical Inc/

Unilox Division

2400 Barranco Pkwy
Irvine, CA 92606
Phone: 714-863-1181
Natl: 800-854-8257
Fax: 714-744-7250
Web Site: www.raunilox.com
E-Mail: linda.dunham@rfco.com
SEE AD ON PAGE 72, 148

Rosengarten, Smith

& Associates Inc

2222 Western Trails Blvd
Ste 300
Austin, TX 78745-1601
Phone: 512-707-1777
Fax: 512-707-0501

Ross Air Systems

PO Box 310
Somerville, NJ 08876-0310
Phone: 908-356-4555
Fax: 908-356-6676

Ross Analytical Services Inc

16433 Foltz Industrial Pkwy
Strongsville, OH 44136
Phone: 440-572-3200
Natl: 800-325-7737
Fax: 440-572-7620
Web Site: www.rossanalytical.com
E-Mail: sales@rossanalytical.com

Rotron Instrument Corp

160 E Main St
Huntington, NY 11743
Phone: 516-427-3898
Natl: 800-628-7101
Fax: 516-427-3902
Web Site: www.rotrotron-usa.com
E-Mail: sales@rotrotron-usa.com

Roy F Weston Inc

1 Weston Way
West Chester, PA 19380-1499
Phone: 610-701-3000
Natl: 800-7WESTON
Fax: 610-701-3124
Web Site: www.rfweston.com
E-Mail: webmaster@rfweston.com

Royal Guard Corp

PO Box 6470
Longview, TX 75608
Phone: 903-759-3455
Fax: 903-759-0229
E-Mail: royalguardcorporation@worldnet.att

Royce Instrument Corp

1355 Gentilly Rd
New Orleans, LA 70129
Phone: 504-254-8888
SEE AD ON PAGE 12, 122

Rubb Inc

Old Airport Rd
Sanford Municipal Airport
Sanford, ME 04073
Phone: 207-324-2877
Natl: 800-289-7822
Fax: 207-324-2347
Web Site: www.rubb.com
E-Mail: info@rubb.com

Rubbercraft

15627 S Broadway
Gardena, CA 90248
Phone: 310-328-5402
Fax: 310-618-1832

Rusmar Inc

216 Garfield Ave
West Chester, PA 19380
Phone: 610-436-4314
Natl: 800-733-3626
Fax: 610-436-8436
Web Site: www.rusmarinc.com
E-Mail: rusmar@voicenet.com

Rust Environment & Infrastructure

15 Brendan Way
Greenville, SC 29615
Phone: 864-234-3000
Natl: 800-868-0373
Fax: 864-234-2289
Web Site: www.rustei.com
SEE AD ON PAGE 3, 115

Rutgers University-Office of Continuing Prof Educ

PO Box 231
New Brunswick, NJ 08903-0231
Phone: 732-932-9271
Fax: 732-932-1187
Web Site: www.aesop.rutgers.edu/~ocpe
E-Mail: galan@aesop.rutgers.edu

S

S & N Airolfo
PO Drawer 1994
Greenwood, MS 38935
Phone: 800-844-4524
Fax: 800-761-4442
SEE AD ON PAGE 78, 120

S C Altman & Associates

2424 W 207th St
Olympia Fields, IL 60461
Phone: 708-747-3399
Fax: 708-481-1248

S E International Inc

PO Box 39
Summertown, TN 38483-0039
Phone: 931-864-3561
Natl: 800-293-5759
Fax: 931-964-3564
Web Site: www.seintl.com
E-Mail: seintl@usit.net

SAMSCO Inc

18 Cote Ave
Goffstown, NH 03045
Phone: 603-668-7111
Fax: 603-647-0537
E-Mail: sales@samsco-inc.com
SEE AD ON PAGE 39, 127

SASSCO

212 Orange Grove St
Hillsborough, NC 27278
Phone: 919-732-3115
Fax: 919-732-7670

SBP Technologies Inc

106 Corporate Park Dr
White Plains, NY 10604
Phone: 914-694-2280
Natl: 888-727-6514
Fax: 914-694-2286
Web Site: www.sbpotech.com
E-Mail: 107776.2333

SEMCOR

815 E Gate Dr
Mount Laurel, NJ 08054
Phone: 609-234-6700
Fax: 609-234-7646
Web Site: www.semcor.com

SENTEX Systems Inc

553 Broad Ave
Ridgefield, NJ 07067
Phone: 201-945-3694
Natl: 800-736-8394
Fax: 201-941-6064

SGL Carbon Composites Inc - HITCO

1600 W 135th St
Gardena, CA 90249
Phone: 310-527-0700
Natl: 800-421-5444
Fax: 310-515-1779
Web Site: www.hitcotecnologies.com
E-Mail: reffasil@hitco.com

SGS International Certification Services Inc

201 Rte 17 N Meadows Office Complex
Rutherford, NJ 07070
Phone: 201-935-1500
Natl: 800-747-9047
Fax: 201-935-4555
Web Site: www.sgscisus.com
E-Mail: sgscis@ibm.net
SEE AD ON PAGE 35, 121

SGS US Testing Co Inc

291 Fairfield Ave
Fairfield, NJ 07004
Phone: 973-575-5252
Natl: 800-777-TEST
Fax: 973-575-7175
Web Site: www.ustesting@sgsna.com
E-Mail: ed_ronk@sgsgroup.com

SIMCO Drilling Equipment Inc

802 Furnas Dr
Osceola, IA 50213
Phone: 515-342-2166
Natl: 800-338-9925
Fax: 515-342-6764

SKC Inc

863 Valley View Rd
Eighty Four, PA 15330
Phone: 412-941-9701
Natl: 800-752-8472
Fax: 412-941-1369
Web Site: www.skcin.com
E-Mail: skcin@skcin.com

SKS Bottle & Packaging Inc

3 Knabner Rd
Mechanicville, NY 12118
Phone: 518-899-7490
Fax: 800-810-0440
E-Mail: zehner@aol.com

SOMAT Corp

855 Fox Chase
Cotatesville, PA 19320
Phone: 610-384-7000
Natl: 800-23-SOMAT
Fax: 610-380-8500
Web Site: www.somatcorp.com
E-Mail: somatcorp@aol.com

SRI Instruments

20720 Earl St
Torrance, CA 90503
Phone: 310-214-5092
Fax: 310-214-5097
Web Site: www.srigc.com
E-Mail: srigc@compuserve.com

SRS Crisafulli Inc

PO Box 1051
Glendive, MT 59330-1051
Phone: 406-365-3393
Natl: 800-442-7867
Fax: 406-365-2249
Web Site: www.crisafulli.com
E-Mail: srsc@crisafulli.com

SRS Industrial Engineering Inc

550 Industrial Way Unit C
Fallbrook, CA 92028
Phone: 760-728-1790
Fax: 760-728-3151
Web Site: www.srsindustrial.com
E-Mail: marketing@srsindustrial.com

SRS Technologies

2323 S Washington Ave Ste 209
Titusville, FL 32780
Phone: 407-267-3044
Fax: 407-264-2576
Web Site: www.srs.com
E-Mail: manvbecker@aol.com

SSI Shredding Systems Inc

9760 SW Freeman Dr
Wilsonville, OR 97070-9286
Phone: 503-682-3633
Natl: 800-537-4733
Fax: 503-682-1704
Web Site: www.ssiworld.com
E-Mail: info@ssiworld.com

SSOE Inc

1001 Madison Ave
Toledo, OH 43624-1535
Phone: 419-255-3830
Fax: 419-255-6101
Web Site: www.ssoe.com
E-Mail: info@ssoe.com

STAR Consultants Inc

962 Nelson Pl Ste 2
Arnold, MD 21012
Phone: 410-349-9713
Fax: 410-757-0524
Web Site: www.starconsultants.com
E-Mail: starconsultants.com

STC Remediation Inc

7650 E Redfield Rd Ste D5
Scottsdale, AZ 85260
Phone: 602-948-7100
Fax: 602-991-3173
Web Site: www.stcremediation.com

STV Inc

205 W Welsh Dr
Douglassville, PA 19518
Phone: 610-385-8200
Fax: 610-385-8501
Web Site: www.stvinc.com
E-Mail: stvinc@netaxs.com

Safetec of America Inc

1055 E Delavan Ave
Buffalo, NY 14215-3145
Phone: 716-895-1822
Natl: 800-456-7077
Fax: 716-895-2969

Safety & Environmental Resources Inc

14009 E Jefferson Blvd
Mishawaka, IN 46545
Phone: 219-258-0507
Fax: 219-258-4748
E-Mail: sales-ser@skynet.net

Safety Management Resources Corp

3 Rock Rd
Chatham, IL 62629-9771
Phone: 217-483-2613
Fax: 217-483-2613
E-Mail: smrc@juno.com

Safety Storage Inc

2301 Bert Dr
Hollister, CA 95023
Phone: 408-637-5955
Natl: 800-644-6539
Fax: 408-637-7405
Web Site: www.safetystorage.com
E-Mail: info@safetystorage.com

Sam Dick Industries

PO Box 70498
Seattle, WA 98107
Phone: 206-789-5410
Fax: 206-789-5414
Web Site: www.eclipsenet.com/sci
E-Mail: sdicris@bim.net

Sanford L Werner Consulting Geohydrologist

21031 Blythe St
Canoga Park, CA 91304
Phone: 818-998-8178

Savant Audiovisuals Inc

PO Box 3670
Fullerton, CA 92834
Phone: 714-870-7880
Natl: 800-4728268
Fax: 714-526-7400

Savant Enterprises LLC

11652 Laurel Ln
Parker, CO 80138
Phone: 303-805-0975
Fax: 303-805-0984
E-Mail: lthsavant@aol.com

Scantek Inc

916 Gist Ave
Silver Spring, MD 20910
Phone: 301-495-7738
Fax: 301-495-7739
E-Mail: scantek@erols.com

Scarab Manufacturing & Leasing Inc

HCR 1 Box 205
White Deer, TX 79097
Phone: 806-883-7621
Fax: 806-883-6804
Web Site: www.scarabmfg.com
E-Mail: scarab@arn.net

Schumacher Filters America Inc

PO Box 8040
Asheville, NC 28814
Phone: 704-252-9000
Natl: 800-394-7932
Fax: 704-253-7773
E-Mail: usa@sut.com

Scientific Sales Inc

PO Box 6725
Lawrenceville, NJ 08648
Phone: 609-844-0055
Natl: 800-788-5666
Fax: 609-844-0466
Web Site: www.scientificsales.com
E-Mail: sciensales@aol.com

Scott Health & Safety

309 W Crowell St
Monroe, NC 28112
Phone: 704-282-8400
Fax: 704-282-8423

Scott Specialty Gases

6141 Easton Rd Box 310
Plumsteadville, PA 18949
Phone: 215-766-8861
Natl: 800-21-SCOTT
Fax: 215-766-2476
Web Site: www.scottgas.com

Seepex Inc

511 Speedway Dr
Enon, OH 45323
Phone: 937-864-7150
Natl: 800-695-3659
Fax: 937-864-7157
Web Site: www.seepex.com
E-Mail: seepex@ix.netcom.com

Serengeti Environmental

PO Box 772503
Houston, TX 77215-2503
Phone: 713-266-4300
Fax: 713-266-4399
E-Mail: serengeti@juno.com

Setcom Corp

1400 N Shoreline Blvd Ste B1
Mountain View, CA 94043-1385
Phone: 650-965-8020
Natl: 800-966-1034
Fax: 650-965-1193

Sevenson Environmental Services Inc

2749 Lockport Rd
Niagara Falls, NY 14305
Phone: 716-284-0431
Fax: 716-284-1796
Web Site: www.sevenson.com

Shorthridge Instruments Inc

7855 E Redfield Rd
Scottsdale, AZ 85260
Phone: 602-991-6744
Fax: 602-443-1267

Sierra Monitor Corp

1991 Tarob Ct
Milpitas, CA 95035
Phone: 408-262-6611
Natl: 800-727-4377
Fax: 408-262-9042
Web Site: www.sierramonitor.com
E-Mail: sierra@sierramonitor.com

Skedco Inc

PO Box 230487
Portland, OR 97281
Phone: 503-639-2119
Natl: 800-770-7533
Fax: 503-639-4538
Web Site: www.skedco.com
E-Mail: skedco@skedco.com

Skolnik Industries Inc

4900 S Kilbourn Ave
Chicago, IL 60632
Phone: 773-735-0700
Natl: 800-441-8780
Fax: 773-735-7257
Web Site: www.skolnik.com
E-Mail: info@skolnik.com

Slickbar Products Corp

18 Beach St
Seymour, CT 06483
Phone: 203-888-7700
Natl: 800-322-2666
Fax: 203-888-7720
Web Site: www.slickbar.com
E-Mail: info@slickbar.com

Slosky & Co Inc

1675 Broadway Ste 1400
Denver, CO 80202
Phone: 303-825-1911
Fax: 303-892-3882
E-Mail: sloskyco@netway.net

Smalis Conveyors

PO Box 412
New Stanton, PA 15672
Phone: 412-925-8500
Fax: 412-925-6421
E-Mail: www.usaconvey@aol.com

Smith Fiberglass Products Co

2700 W 65th St
Little Rock, AR 72209
Phone: 501-568-4010
Fax: 501-568-4465
Web Site: www.aosmith.com/sfp
E-Mail: jbrummett@aosmith.com

Software Certification Institute
PO Box 2328
Santa Maria, CA 93457
Phone: 805-937-5383
Fax: 805-937-5383

Safe Inc
4600 E Fayette St
Baltimore, MD 21224
Phone: 410-795-4929
Fax: 410-795-7065

Solar Testing Laboratories Inc
3862 East St
Pittsburgh, PA 15214
Phone: 412-231-8600
Fax: 412-231-6950
E-Mail: stl19@sgl.net

Solinst Canada Ltd
35 Todd Rd
Georgetown, ON L7G-4R8
Phone: 905-873-2255
Natl: 800-661-2023
Fax: 905-873-1992
SEE AD ON PAGE 88

Solutions Software Corp
1795 Turtle Hill Rd
Enterprise, FL 32725
Phone: 407-321-7912
Fax: 407-321-3098
Web Site: www.env-sol.com
E-Mail: solutions@env-sol.com

Solvay Interco Inc
3333 Richmond Ave
Houston, TX 77098
Phone: 713-525-6500
Natl: 800-INTEROX
Fax: 713-524-9032

Solvent-Kleene Inc
131 1/2 Lynfield St
Peabody, MA 01960
Phone: 978-531-2279
Fax: 978-532-9304

Sorbent Products Co Inc
645 Howard Ave
Somerset, NJ 08873
Phone: 732-302-0080
Natl: 800-333-7672
Fax: 732-302-0969
Web Site: www.sorbentproducts.com
E-Mail: main@sorbentproducts.com

Source Environmental Sciences Inc
4100 Westheimer Ste 106
Houston, TX 77027
Phone: 713-621-4474
Fax: 713-621-4588
E-Mail: source@pdg.net

Sparling Instruments Inc
4097 N Temple City Blvd
El Monte, CA 91731
Phone: 626-444-0571
Fax: 626-444-2314
Web Site: www.sparlinginstruments.com
E-Mail: sales@sparlinginstruments.com

Specialized Cargo Handling Services
1036 Industry Dr
Seattle, WA 98188
Phone: 206-575-0458
Natl: 888-884-8008
Fax: 206-575-0469
Web Site: www.hazmatpro.com
E-Mail: hazpro@aa.net

SPECTREX[®]
CORPORATION
800-822-3940

Spectrex
3580 Haven Ave
Redwood City, CA 94063
Phone: 650-365-6567
Fax: 650-365-5845

Spectrum Human Resource Systems Corp
1625 Broadway Ste 2600
Denver, CO 80202

Phone: 303-592-3200
Natl: 800-477-3287
Fax: 303-595-9970
Web Site: www.spectrumhr.com
E-Mail: spectrum-info@spectrumhr.com

Staplex Air Sampler Division
777 Fifth Ave
Brooklyn, NY 11232-1695
Phone: 718-768-3333
Natl: 800-221-0822
Fax: 718-965-0750
Web Site: www.staplex.com
E-Mail: info@staplex.com

Steele Inc
PO Box 7304
Kingston, WA 98346
Phone: 360-297-4555
Fax: 360-297-2816
E-Mail: steelinc@silverlink.net

Stevens Water Monitoring Systems
14400 NW Greenbrier Pkwy
Beaverton, OR 97006
Phone: 503-526-5191
Natl: 800-452-5272
Fax: 503-526-1471
Web Site: www.stevenswater.com
E-Mail: hollaway@leupstv.com

Stick Shop Div of Light Fabrications Inc
40 Hyter Cir
Rochester, NY 14606
Phone: 716-426-5330
Natl: 800-836-6920
Fax: 800-648-5639
Web Site: www.lightfad.com/stickshop
E-Mail: stickshop@exnet.net

Stonehill Environmental Inc
600 State St
Portsmouth, NH 03801
Phone: 603-433-1935
Natl: 800-639-4503
Fax: 603-433-1942
E-Mail: sthrienv@vnet.com

Strategic Diagnostics Inc
111 Pencader Drive
Newark, DE 19702
Phone: 302-456-6789
Natl: 800-544-8881
Fax: 302-456-6782
Web Site: www.sdx.com
E-Mail: cksdy@sdx.com
SEE AD ON PAGE 161

Sur-Loc Inc
PO Box 750
Fremont, IN 46737
Phone: 219-495-4065
Natl: 800-223-7517
Fax: 219-495-4205
E-Mail: bsawager@dmci.net

Surface Combustion Inc
1700 Indian Wood Cir
Maumee, OH 43537
Phone: 419-891-7150
Natl: 800-537-8980
Fax: 419-891-7151
Web Site: www.surfacecombustion.com

Survivair Inc
3001 S Susan St
Santa Ana, CA 92704
Phone: 714-545-0410
Natl: 888-277-7222
Fax: 800-201-4407
Web Site: www.survivair.com
E-Mail: marketing@survivair.com

Sybron Chemicals Inc
PO Box 66
Birmingham, NJ 08011
Phone: 609-893-1100
Natl: 800-678-0020
Fax: 609-894-8541
Web Site: www.sybronchemicals.com

TEAC America-Information Products Div
7733 Telegraph Rd
Montebello, CA 90640
Phone: 213-726-0303
Fax: 213-727-7621

TECO-Westinghouse Motor Co
PO Box 277
Round Rock, TX 78630-0877
Phone: 512-255-4141
Natl: 800-451-8798
Fax: 512-244-5000
Web Site: www.teco-wmc.com

TISCOR
11225 W Bernardo Ct
San Diego, CA 92127
Phone: 619-451-3710
Natl: 800-227-6379
Fax: 619-451-3901
Web Site: www.tiscor.com
E-Mail: tiscor@tiscor.com

TNT Technology Co
2121 W University Dr Ste 123
Tempe, AZ 85281
Phone: 602-966-9891
Fax: 602-968-9469
E-Mail: tntinc@coodnet.com

TRAK Environmental Group Inc
4125 Market St Ste 19
Ventura, CA 93003
Phone: 805-650-5333
Fax: 805-650-7213
Web Site: www.trakenviro.com
E-Mail: trak@trakenviro.com

TRC
5 Waterside Crossing
Windsor, CT 06095
Phone: 860-289-8631
Natl: 800-365-8254
Fax: 860-298-6399
Web Site: www.trcec.com
E-Mail: trcwindsor@aol.com

TYMCO Inc
PO Box 2368
Waco, TX 76703
Phone: 254-799-5546
Natl: 800-258-9626
Fax: 254-799-2722
Web Site: www.tymco.com
E-Mail: info@tymco.com

Tahoe Design Software
PO Box 8128
Truckee, CA 96162
Phone: 916-582-1525
Fax: 916-582-8579
Web Site: www.tlcl.com/~eds
E-Mail: tds@tlcl.com

Talem Inc
306 W Broadway
Fort Worth, TX 76104
Phone: 817-335-1186
Fax: 817-335-9830
E-Mail: talem@airmail.net

Target Environmental Services
9180 Rumsey Rd
Columbia, MD 21014
Phone: 410-992-6622
Fax: 410-992-0347
Web Site: www.targetco.com
E-Mail: ntillman@targetco.com

Taurus Precision
129 Patterson Ave
Little Falls, NJ 07424
Phone: 973-785-9254
Fax: 973-785-9223

Taylor Environmental Products Inc
628 Old Robinson Rd
Louisville, KY 40339
Phone: 601-773-3421
Fax: 601-773-7139
Web Site: www.taylorbigred.com
E-Mail: tom-knox@taylorbigred.com
SEE AD ON PAGE 60, 159

Taylor Technologies Inc
31 Loveton Circle
Sparks, MD 21152
Phone: 410-472-4340
Natl: 800-837-8548
Fax: 410-771-4291

Technical Heaters
710 Jessie St
San Fernando, CA 91340
Phone: 818-365-9435
Fax: 818-361-2788
SEE AD ON PAGE 19

Technical Products & Services Inc
PO Box 209
Newton, NJ 07860
Phone: 973-579-3184
Fax: 973-383-3184

Technomic Publishing Co Inc
PO Box 3535
Lancaster, PA 17604
Phone: 717-291-5609
Natl: 800-233-9936
Fax: 717-295-4538
Web Site: www.techpub.com
E-Mail: marketing@techpub.com

Telatemp Corp
351 S Raymond Ave
Fullerton, CA 92831
Phone: 714-879-2901
Natl: 800-321-5160
Fax: 714-870-8136
Web Site: www.telatemp.com
E-Mail: telatemp@pacbell.net

Teledyne Brown Engineering Control Applications
2929 N Central Expwy
Richardson, TX 75080
Phone: 972-644-2525
Natl: 800-888-9056
Fax: 972-437-7712
Web Site: www.openvector.com
E-Mail: sales@openvector.com

Teglo Instruments
830 Canning Pkwy
Victor, NY 14534
Phone: 716-742-3000
Fax: 716-742-3006

Temcor
24724 S Wilmington Ave
Carson, CA 90745
Phone: 310-549-4311
Natl: 800-421-2263
Fax: 310-233-7304
Web Site: www.temcor.com
E-Mail: temcor@compuserve.com

Terra Systems Inc
1035 Philadelphia Pike Ste E
Wilmington, DE 19809
Phone: 302-798-9553
Fax: 302-798-9554
E-Mail: rraymon825@aol.com

Terra Universal Inc
700 N Harbor Blvd
Anaheim, CA 92805
Phone: 714-526-0100
Fax: 714-992-2179
Web Site: www.terrauni.com
E-Mail: info@terrauni.com

Testo Inc
35 Ironia Rd
Flanders, NJ 07836
Phone: 973-252-1720
Natl: 800-227-0729
Fax: 973-252-1729
Web Site: www.testo.com
E-Mail: info@testo.com
SEE AD ON PAGE 85, 154

Tetra Tech NUS
910 Clopper Rd
Gaithersburg, MD 20878-1399
Phone: 301-258-6000
Fax: 301-258-8679
Web Site: www.tetratech.com

The Reflectory
87 Broadway
Newburgh, NY 12550
Phone: 914-565-2037

Fax: 914-565-2045
Web Site: www.safctyreflectors.com
E-Mail: rstrak@aol.com

Thel-Mar Co
134 W 5th St
Lansdale, PA 19446
Phone: 215-362-2998
Natl: 800-322-9347
Fax: 215-362-2998

Therm-Omega-Tech Inc
207 Witmer Rd
Horsham, PA 19044-2212
Phone: 215-674-9992
Natl: 800-288-4878
Fax: 215-674-8594
Web Site: www.thermomegatesh.com
E-Mail: valves@thermomegatesh.com

Thermal Transfer Corp
1100 Rico Rd
Monroeville, PA 15146
Phone: 412-351-3013
Fax: 415-856-0256

Thermatrix Inc
308 N Peters Rd Ste 100
Knoxville, TN 37922
Phone: 423-539-9603
Fax: 423-539-9643
Web Site: www.thermatrix.com
E-Mail: info@thermatrix.com

Thermo Environmental Instruments
8 W Forge Pkwy
Franklin, MA 02038
Phone: 508-520-0430
Fax: 508-520-1460
Web Site: www.thermoei.com
E-Mail: esnordkiris@compuserve.com
SEE AD ON PAGE 43, 113

ThermoQuest/Finnigan Corp
2215 Grand Ave Pkwy
Austin, TX 78728-3812
Phone: 512-251-1515
Natl: 800-876-6711
Fax: 512-251-1597
Web Site: www.tmqaustin.com
E-Mail: tashelp@austin.finnigan.com

Thiel Air Technologies
1136 S Fl Thomas Ave
Fl Thomas, KY 41075
Phone: 606-781-4330
Fax: 606-781-2356
Web Site: www.thielair.com

Thielsch Engineering Inc
195 Frances Ave
Cranston, RI 02910
Phone: 401-467-6454
Fax: 401-467-2398

Thomas Hill Inc Consulting Engineers
4400 Campus Dr Ste B
Newport Beach, CA 92660-1813
Phone: 714-660-1443
Fax: 714-660-0515
Web Site: www.thomashill.com
E-Mail: thi@thomashill.com

Thomas Industries/Thomas Lighting
PO Box 35120
Louisville, KY 40232-5120
Phone: 502-893-4600
Fax: 502-895-6618
Web Site: www.thomaslighting.com

Touhill Technology Management Corp
2206 Almack Ct
Pittsburgh, PA 15237-1502
Phone: 412-369-4590
Fax: 412-369-4591
E-Mail: jtouhill@aol.com

ToxGon Corp
631 S 96th St
Seattle, WA 98108
Phone: 206-762-5583
Fax: 206-763-9331
E-Mail: njtoxoncorp@worldnet.att.net

COMPANY PROFILES

Toxikon Corp
15 Wiggins Ave
Bedford, MA 01730
Phone: 781-275-3330
Fax: 800-488-4141
Web Site: www.toxikon.com
E-Mail: kjinch@toxikon.com

Tracer Research Corp
3755 N Business Center Dr
Tucson, AZ 85705
Phone: 520-888-9400
Fax: 800-394-9929
Web Site: www.tracertight.com
E-Mail: sales@tracertight.com
SEE AD ON PAGE 68, 118

Tracker Technologies
30 Corporate Pk Ste 310
Irvine, CA 92606
Phone: 714-442-7820
Fax: 800-338-3205
Web Site: www.trkr.com
E-Mail: dmaldonado@trkr.com

Trans Environmental Systems Inc
PO Box 40163
Cleveland, OH 44140
Phone: 440-871-3214
Fax: 800-220-2466
Web Site: www.transenvsys.com
E-Mail: www.transenvsys.com
SEE AD ON PAGE 81, 157

Trewin & Smith Inc
100 N Central Expwy Ste 500
Richardson, TX 75080
Phone: 972-479-9138
Fax: 972-234-2123

Tri-State Environmental Products & Equipment
PO Box 25486
Tempe, AZ 85285-5486
Phone: 602-837-9092
Fax: 602-837-9072
E-Mail: www.tristateind@earthlink.com

TRIBLE & RICHARDSON, INC.
A DSAmerica Company
912-474-6100

Tribble & Richardson
4875 Riverside Dr
Macon, GA 31210
Phone: 912-474-6100
Fax: 912-474-8933

Trinity Air Technologies
2425 Dillard
Grand Prairie, TX 75051
Phone: 972-988-2899
Fax: 800-299-4824
Web Site: www.trin.com
E-Mail: dwiles@trin.com

Trinity Consultants Inc
12801 N Central Expwy Ste 1200
Dallas, TX 75243
Phone: 972-661-8100
Fax: 800-229-6655
Web Site: www.trinityconsultants.com
E-Mail: information@trinityconsultants.com

Tristate Machinery Co
306 S Salina St
Syracuse, NY 13202
Phone: 315-475-1580
Fax: 800-265-7145
E-Mail: 315-475-0193

Trump Power Tools
Hyde Rd
Farmington, CT 06032
Phone: 860-677-9741
Fax: 860-676-2606
SEE AD ON PAGE 167

Trusco Tank Inc
PO Box 11925
Fresno, CA 93775
Phone: 209-264-4741
Fax: 800-800-8265
Web Site: www.truscotank.com
E-Mail: ttrf@aol.com

Turner Designs
845 W Maude
Sunnyvale, CA 94086
Phone: 408-749-0994

Turner Enviro Logic Inc
3439 SW 11th St
Deerfield Beach, FL 33442
Phone: 954-422-9787
Fax: 800-933-8385
E-Mail: tenviro@bellsouth.net

U F Strainrite
PO Box 1667
Lewiston, ME 04240
Phone: 207-777-3100
Fax: 207-777-3177
E-Mail: ufs@exploremaine.com
SEE AD ON PAGE 10, 116

U O Equipment Co
PO Box 924615
Houston, TX 77292-4615
Phone: 713-686-1869
Fax: 800-231-6372
E-Mail: 713-688-0001

U S Department of Commerce
14th Constitution Ave NW
Washington, DC 20230
Phone: 202-482-0564
Fax: 202-482-5225

UAI Group LP
53 Vermont Rd
Sinking Spring, PA 19608
Phone: 610-777-5346
Fax: 610-777-4136
E-Mail: trhoads@uaignroup.com

UPE 609-443-4845

UPE Universal Process Equipment Inc
1180 Rt 130 S
Robbinsville, NJ 08691
Phone: 609-443-4545
Fax: 609-259-0644
Web Site: www.upe.com
E-Mail: upe@upe.com

US Filter Recovery Services
2430 Rose Place
Roseville, MN 55113
Phone: 612-638-1300
Fax: 612-633-5074

US Filter Recovery Services
5375 S Boyle Ave
Los Angeles, CA 90058
Phone: 213-277-1500
Fax: 800-266-7747
Web Site: www.usfilter@aol.com

US Filter/Davco
1828 Metcalf Ave
Thomasville, GA 31792
Phone: 912-226-5733
Fax: 800-841-1550
E-Mail: 912-228-0312
102761.3457@compuserve.com

US Filter/EMU Products
1828 Metcalf Ave
Thomasville, GA 31792
Phone: 912-226-5733
Fax: 800-841-1550
E-Mail: 912-228-0312
102761.3457@compuserve.com

US Filter/Envirex
1901 S Prairie Ave
Waukesha, WI 53186
Phone: 414-521-8277
Fax: 414-521-8449
Web Site: www.usfilterenvirex.com

US Filter/HPD
55 Shuman Blvd
Naperville, IL 60563
Phone: 630-717-2221
Fax: 630-717-2247
Web Site: www.usfilter.com
E-Mail: colangek@usfilter.com

US Filter/JWI
2155 112th Ave
Holland, MI 49424
Phone: 616-772-9011
Fax: 800-245-3006
Web Site: www.jwifilters.com

US Filter/Jet Tech
1051 Blake
Edwardsville, KS 66111
Phone: 913-422-7600
Fax: 913-422-7667
E-Mail: usftj@worldnet.att.net

US Filter/Johnson Screens
PO Box 64118
St Paul, MN 55154
Phone: 612-638-3140
Fax: 612-638-3159
Web Site: www.johnsonscreens.com
E-Mail: hansong@jfs.mhub.com

US Filter/Lo-Cat
1501 E Woodfield Rd Ste 200 W
Schaumburg, IL 60173
Phone: 847-706-6900
Fax: 847-706-6996

US Filter/RJ Environmental
6197 Cornerstone Ct E Ste 108
San Diego, CA 92121
Phone: 619-455-7688
Fax: 619-455-7689
E-Mail: ladelman@rjenvironmental.com

US Filter/Stranco
PO Box 389
Bradley, IL 60915
Phone: 815-932-8154
Fax: 800-882-6466
Web Site: www.stanco.com
E-Mail: sales@stanco.com

US Filter/Walden & Tiernan
1901 W Garden Rd
Vineland, NJ 08360
Phone: 609-507-9000
Fax: 609-507-4125
Web Site: www.usfwt.com

US Filter/Westates
5375 S Boyle Ave
Los Angeles, CA 90058
Phone: 213-277-1500
Fax: 888-734-7474
E-Mail: 213-277-4126

US Filter/Zimpro
301 W Military Rd
Rothschild, WI 54474
Phone: 715-359-7211
Fax: 800-826-1476
Web Site: www.usfilter.com

US Industrial Products Co
17320 Marquardt Ave
Cerritos, CA 90703
Phone: 562-802-9688
Fax: 800-663-5782
E-Mail: 562-802-8518

UVEX Safety
10 Thurber Blvd
Smithfield, RI 02917
Phone: 401-232-1200
Fax: 401-232-1830
Web Site: www.uvex.com
E-Mail: sales@uvex.com

UVP Inc
2066 W 11th St
Upland, CA 91786
Phone: 909-946-3197
Fax: 800-452-6788
Web Site: www.uvp.com
E-Mail: uvp@uvp.com

Ultra Scientific
250 Smith St
N Kingstown, RI 02852
Phone: 401-294-9400
Fax: 800-338-1754
Web Site: www.ultrasci.com
E-Mail: ultra@mail.ultrasci.com

Undata America
17408 Boones Ferry Rd
Lake Oswego, OR 97035
Phone: 503-697-3570
Fax: 503-697-3571
E-Mail: undata-america@worldnet.att.net

Unifilt Corp
PO Box 389
Zelenople, PA 16063
Phone: 800-233-2882
Fax: 412-758-3870
Web Site: www.unifilt.com

Unipure Environmental
1440 N Harbor Blvd Ste 125
Fullerton, CA 92835
Phone: 800-323-8647
Fax: 714-870-4576
Web Site: www.unipure.com
E-Mail: sales@unipure.com

United State Filter Corp
181 Thom Hill Rd
Warrendale, PA 15086
Phone: 412-772-0044
Fax: 800-525-0658
Web Site: www.usfilter.com

United States Filter Corp
40-004 Cook St
Palm Desert, CA 92211
Phone: 760-340-0098
Fax: 800-525-0658
Web Site: www.usfilter.com
E-Mail: mclart@usfilter.com

Universal Analyzers Inc
1771 S Sutor Terrace
Carson City, NV 89706
Phone: 702-883-2500
Fax: 800-993-9309
Web Site: www.universalanalyzers.com
E-Mail: tbarben@powernet.net

Universal Fabric Structures
2200 Kurny Rd
Quakertown, PA 18951
Phone: 215-529-9921
Fax: 800-634-8368
Web Site: www.ufsinc.com
E-Mail: sales@ufsinc.com

University of California Extension-CMIL
2000 Center St Ste 400
Berkeley, CA 94704
Phone: 510-642-4124
Fax: 510-643-9271
Web Site: www.cmil.unex.berkeley.edu
E-Mail: askcmil@uclink4.berkeley.edu

University of Florida TREEO Center
3900 SW 63 Blvd
Gainesville, FL 32608-3806
Phone: 352-392-9570
Fax: 352-392-6910
Web Site: www.doce.ufl.edu/treeo
E-Mail: train@treeo.doce.ufl.edu

University of Texas at Arlington/Environmental Research
PO Box 19021
Arlington, TX 76019
Phone: 817-272-3694
Fax: 800-817-2378
Web Site: www.members.aol.com/bodcaudee/utacert.htm
E-Mail: bodcaudee@aol.com

V-Ram Solids
620 S Broadway
Albert Lea, MN 56007
Phone: 507-373-3996
Fax: 507-373-5937

VFL Technology Corp
16 Hagerty Blvd
West Chester, PA 19382
Phone: 610-918-1100
Fax: 610-882-8358
E-Mail: phil@vfltech.com

VICI Valco Instruments Co Inc
PO Box 55603
Houston, TX 77255
Phone: 713-688-9345
Fax: 800-367-8424
Web Site: www.vici.com
E-Mail: valco@vici.com

Vaisala Inc
100 Commerce Way
Woburn, MA 01801
Phone: 781-933-4500
Fax: 781-933-8029
Web Site: www.vaisala.com
E-Mail: cary.daniels@vaisala.com

Valley Well Drilling
PO Box 23030
Ventura, CA 93002
Phone: 805-648-6385
Fax: 805-648-6391

Van Note-Harvey Associates PC
777 Alexander Rd
Princeton, NJ 08540
Phone: 609-987-2323
Fax: 609-987-0005
Web Site: www.vannoteharvey.com
E-Mail: vnha@aol.com

Van Oppen & Co Insurance Services Inc
1440 N Harbor Blvd Ste 725
Fullerton, CA 92835
Phone: 714-447-3981
Fax: 888-447-3981
E-Mail: 714-447-8375

Vanton Pump
201 Sweetland Ave
Hillsdale, NJ 07025
Phone: 908-688-4216
Fax: 908-686-9314
Web Site: www.vanton.com

Vara Intl, A Div of Calgon Carbon Corp
1201 19th Pl
Vero Beach, FL 32960
Phone: 561-567-1320
Fax: 561-567-4108
E-Mail: marley@calgoncarbon.com

Varian Analytical Instruments
PO Box 954
Santa Clarita, CA 91355-9054
Phone: 800-926-3000
Fax: 281-240-6752
Web Site: www.varian.com

Veeder-Root Co
125 Powder Forest Dr
Simsbury, CT 06070
Phone: 860-651-2700
Fax: 860-651-2719
Web Site: www.veeder-root.com

Versar Inc
200 W 22nd St Ste 250
Lombard, IL 60148
Phone: 630-268-8555
Fax: 630-268-0555
Web Site: www.versar.com
E-Mail: envirohelp@versar.com

Victaulic Co of America
4901 Kesslersville Rd
Easton, PA 18040
Phone: 610-559-3300
Fax: 610-250-8817
Web Site: www.victaulic.com
E-Mail: vic@mail.com

Victor O Schinnerer & Co Inc
Two Wisconsin Cir
Chevy Chase, MD 20855
Phone: 301-961-9800
Fax: 301-951-5444
Web Site: www.schinnerer.com
E-Mail: info@schinnerer.com

Victoria Group Inc
10340 Democracy Ln Ste 204
Fairfax, VA 22030
Phone: 703-691-8484
Natl: 800-845-0567
Fax: 703-691-2542
Web Site: www.victoriagroup.com
E-Mail: vmi@victoria.global.ibmmail.com

Vista Information Solutions Inc
5060 Shoreham Pl
San Diego, CA 92122
Phone: 619-450-6100
Natl: 800-767-0403
Fax: 619-450-6195
Web Site: www.vistainfo.com
E-Mail: webmaster@vistainfo.com
SEE AD ON PAGE 71, 150

Visual Inspection Technologies Inc
199 Hwy 206
Flanders, NJ 07836
Phone: 973-448-0077
Natl: 800-848-5665
Fax: 973-448-0044
Web Site: www.v-i-t.com
E-Mail: info@v-i-t.com

Visual Light
2014 Leafwood Place
Encinitas, CA 92024
Phone: 760-436-1616
Fax: 760-436-3898
E-Mail: jess8808@aol.com

Vortechnics Inc
41 Evergreen Dr
Portland, ME 04103
Phone: 207-878-3662
Fax: 207-878-8507
Web Site: www.vortechnics.com
E-Mail: vortechnics@vortechnics.com
SEE AD ON PAGE 47, 158

Voss Technologies Inc
4227 Centergate
San Antonio, TX 78217
Phone: 210-650-3124
Natl: 800-247-6294
Fax: 210-650-8032
Web Site: www.vosstech.com
E-Mail: custserv@vosstech.com

W

W Gale Biggs Associates
PO Box 3344
Boulder, CO 80307-3344
Phone: 303-494-4288
Fax: 303-499-6033

WCM Group Inc
PO Box 3247
Humble, TX 77347-3247
Phone: 281-446-7070
Fax: 281-446-3348
Web Site: www.wcmgroup.com

WES Corp
201 Southport Cir Ste 2D
Okemos, MI 48864
Phone: 517-347-3668

Wag-Aero Group
PO Box 181
Lyons, WI 53148
Phone: 414-763-9586
Natl: 800-558-6868
Fax: 414-763-7595
Web Site: www.wagaero.com
E-Mail: wagaero-sale@wagaero.com

Waid & Associates
14205 Burnet Rd Ste 500
Austin, TX 78728
Phone: 512-255-9999
Fax: 512-255-8780
Web Site: www.waid.com
E-Mail: waid@waid.com

Walsh Environmental Scientist & Engineers Inc
4886 Pearl East Cir Ste 108
Boulder, CO 80301
Phone: 303-443-3282
Fax: 303-443-0367
Web Site: www.walshenv.com
E-Mail: jmcclurg@walshenv.com

Walter Grossman & Associates
4-59 Ivy Ln
Fair Lawn, NJ 07410-1652
Phone: 201-797-0612
Fax: 201-797-0942

Warminster Fiberglass Co
PO Box 188
Southampton, PA 18966-0188
Phone: 215-953-1260
Fax: 215-357-7893
E-Mail: wfglass@postoffice.worldnet.att.net

Waste Control Systems Inc
2835 Merrymans Mill Rd
Phoenix, AZ 85021-1631
Phone: 410-252-9360
Natl: 888-927-8326
Fax: 410-252-9362
E-Mail: sales@wastecontrol.com

Waste-Tech Inc
1931 Industrial Dr
Libertyville, IL 60048
Phone: 847-367-5150
Fax: 847-367-1787

Water Pollution Control Corp
9333 N 49th St
Milwaukee, WI 53223
Phone: 414-365-2200
Fax: 414-365-2210
Web Site: www.sanitaire.com

Water Remediation Technologies
1317 Pennsridge Ct
Downingtown, PA 19335
Phone: 610-873-3967
Fax: 610-873-3967
E-Mail: wrt1997@aol.com

Water Specialties
191 W Poplar Ave
Porterville, CA 93257
Phone: 209-784-3544
Natl: 800-800-3544
Fax: 209-784-1787
Web Site: www.waterspecialties.com
E-Mail: info@waterspecialties.com

Water Technology International Corp
600 East Ave
Lockport, NY 14094
Phone: 716-438-9307
Fax: 716-438-9304
Web Site: www.wti.ccw.ca
E-Mail: stegner@accsu.buffalo.edu

Water Works
501 Foote St
Crown Point, IN 46307
Phone: 219-663-8210

Natl: 800-232-9334
Fax: 219-662-1503
Web Site: www.h2oworks.com
E-Mail: steve@h2oworks.com

Water-Jel Technologies
243 Veterans Blvd
Carlsbad, NJ 07072
Phone: 201-507-8300
Natl: 800-275-3433
Fax: 201-507-8325
E-Mail: waterjel@aol.com

Watson-Marlow Inc
220 Ballardvale St
Wilmington, MA 01887
Phone: 978-658-6168
Natl: 800-282-8823
Fax: 978-658-0041
Web Site: www.watson-marlow.com

Weil Pump Co Inc
PO Box 887
Cedarburg, WI 53012
Phone: 414-377-1399
Fax: 414-377-0515

Weldas Co
128 Seaboard Ln
Franklin, TN 37067
Phone: 615-377-4722
Natl: 800-524-0162
Fax: 615-377-3635
Web Site: www.nashville.net/~weldas/index.htm
E-Mail: wwldas@telalinet.net

West Group
510 Opperman Dr
Eagan, MN 55123
Phone: 612-687-7000
Natl: 800-255-2549
Fax: 612-687-5293
SEE AD ON PAGE 4, 111

Western Filter Products/ Osmonics
5951 Clearwater Dr
Minnetonka, MN 55343
Phone: 303-288-2617
Natl: 800-654-2766
Fax: 303-288-9328
Web Site: www.osmonics.com
E-Mail: osmonics@worldnet.att.net

Western Research Institute
365 N 9th St
Laramie, WY 82072
Phone: 307-721-2411
Natl: 888-463-6974
Fax: 307-721-2345
Web Site: www.westernresearch.org

Western Water Consultants Inc
611 Skyline Rd
Laramie, WY 82070
Phone: 307-742-0031
Fax: 307-721-2913
Web Site: www.wyoming.com/~wwc
E-Mail: wwclar@wyoming.com

Westport Environmental Systems
251 Forge Rd
Westport, MA 02790
Phone: 508-636-8811
Natl: 800-343-9411
Fax: 508-636-2088
Web Site: www.wesenvsys.com

Wheelabrator Air Pollution Control Inc
441 Smithfield St
Pittsburgh, PA 15222-2292
Phone: 412-562-7300
Fax: 412-562-7617
Web Site: www.wapc.com
E-Mail: apcsales@wapc.com

Whelen Engineering Co Inc
Route 145-Winthrop Rd
Chester, CT 06412
Phone: 860-526-9504
Natl: 800-637-4736

Fax: 860-526-4784
Web Site: www.whelen.com
E-Mail: whelen@commix.com

Whiteford Environmental Services
PO Box 428
Whiteford, MD 21160
Phone: 410-879-0563
Natl: 800-783-7867
Fax: 410-836-5604

Wilkens-Anderson Co
4525 W Division St
Chicago, IL 60651-1674
Phone: 773-384-4433
Fax: 773-384-6260
Web Site: www.waco-lab-supply.com
E-Mail: info@waco-lab-supply.com

Wilks Enterprise Inc
140 Water St
St Norwalk, CT 06854
Phone: 203-855-9136
Fax: 203-838-9668
E-Mail: wilksent@ix.netcom.com

Williams Jewelry & Manufacturing Co
3152 Morris St N
St Petersburg, FL 33713
Phone: 813-823-7676
Fax: 813-822-2563

Williamson Corp
70 Domino Dr
Concord, MA 01742
Phone: 978-369-9607
Natl: 800-300-8367
Fax: 978-369-5465

Winston Manufacturing Corp
PO Box 6440
Longview, TX 75608
Phone: 903-757-7341
Fax: 903-759-6986

Wixel
7936 E Arapahoe Ct Ste 3200
Englewood, CO 80112
Phone: 303-796-0045
Natl: 800-685-5813
Fax: 303-796-0043
Web Site: www.wixel.com
E-Mail: wixel@wixel.com

Wm W Meyer & Sons Inc
8261 Elmwood Ave
Skokie, IL 60077
Phone: 847-673-0312
Fax: 847-673-5564
Web Site: www.wmmeyer.com
E-Mail: wmsales@theramp.net

Wolverine (Massachusetts) Corp
PO Box 5817
De Pere, WI 54115-5817
Phone: 920-336-5231
Natl: 800-862-6943
Fax: 920-336-5360
SEE AD ON PAGE 80, 156

Wonder Makers Inc
PO Box 50209
Kalamazoo, MI 49005-0209
Phone: 616-382-4154
Fax: 616-382-4161
Web Site: www.wondermakers.com
E-Mail: info@wondermakers.com

Woodard & Curran
41 Hutchins Dr
Portland, ME 04102
Phone: 207-774-2112
Natl: 800-426-4262
Fax: 207-774-4751
Web Site: www.woodardcurran.com

Workplace Safety Products
9191 Old Seward Hwy Ste 6
Anchorage, AK 99515
Phone: 907-349-9191
Natl: 800-478-0302
Fax: 907-522-2271

World Water Systems Inc
1732 McGaw Ave
Irvine, CA 92614
Phone: 714-222-5777
Natl: 800-779-4997
Fax: 714-222-5770
Web Site: www.winc.com
E-Mail: wws@deltanet.com

Worldwide Technologies
918 Rosewood
East Lansing, MI 48823
Phone: 517-351-7150
Fax: 517-351-3929
E-Mail: snelljo@pilot.msu.edu
SEE AD ON PAGE 158

Wyssmont Co Inc
1470 Bergen Blvd
Fl Lee, NJ 07024
Phone: 201-947-4600
Fax: 201-947-0324

Y

Youngstown Barrel & Drum
PO Box 1203
Youngstown, OH 44501
Phone: 330-746-3277
Natl: 800-359-3786
Fax: 330-746-3288
Web Site: www.thomasregister.com/ybd
E-Mail: ybd@prodigy.com

Z

Zefon Analytical
2860 23rd Ave N
St Petersburg, FL 33713
Phone: 813-327-5449
Natl: 800-282-0073
Fax: 813-323-6965
Web Site: www.zefon.com
E-Mail: sales@zefon.com

Zellweger Analytics Inc
405 Barclay Blvd
Lincolnshire, IL 60069
Phone: 847-634-2800
Natl: 800-344-4632
Fax: 847-634-1371
Web Site: www.zelana.com
E-Mail: sales@zelana.com

Zellweger Analytics Zeelectronics/Zsolomat
4331 Thurmond Tanner Rd
Flowerly Branch, GA 30542
Phone: 770-967-2196
Natl: 800-535-0606
Fax: 770-967-2926

Zellweger Analytics Inc
100 Park Ave
League City, TX 77573
Phone: 281-332-2484
Fax: 281-554-6795
Web Site: www.zelana.com

Zone Automation
27403 Ynez Rd Ste 110
Temecula, CA 92591
Phone: 909-506-9409
Fax: 909-506-9309
Web Site: www.zoneautomation.com
E-Mail: glgeorge@zoneautomation.com

Zorbit Technologies Inc
3605 32nd St
Port Huron, MI 48060
Phone: 800-927-6947
Fax: 810-364-0217
Web Site: www.peatsorb.com
E-Mail: peatsorb@compucon-mi.com

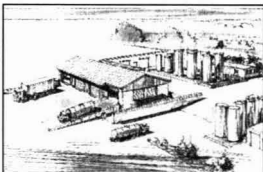


800-382-2150

Zurich-American Insurance Group
One Liberty Plaza 53rd Floor
New York, NY 10006
Phone: 800-382-2150
Web Site: www.zurichamerican.com

Announcing...

**ELDRIDGE COMPANIES
RESIDUAL WASTE
OIL/WATER
RECLAMATION
FACILITY**



Consider the following benefits:

- Competitive Pricing • Hassle Free, Quick Approvals
- Reduce Your Liability • 24 Hour Emergency Service, 7 Days a Week
- On-Site Laboratory Services • Receiving Bulk and Drums
- Transportation Services

Our facility's process recovers oil from contaminated residual waste in liquid and high solid phases. (Heavy Ends)

898 Fernhill Rd., West Chester, PA 19380
800-220-2052 • FAX 610-430-6948

Please visit our website at: www.eldredge.com

Circle 172 on card.

ADVANCED OIL/WATER SEPARATION TECHNOLOGY

HYDRASEP™

ADVANCED OIL/WATER SEPARATOR

oil/water separators,
By-pass basins, controls

"When performance counts"

Call GNESYS, INC @ 1-800-646-5439

FAX 901-794-1960, P.O. Box 14465,
Memphis, TN 38114

Circle 173 on card.

gas gas gas gas gas gas gas gas gas gas gas

FREE

CALIBRATION GAS
CALL FOR DETAILS

During our
SPRING STOCK UP SALE

HEINRICH ENVIRONMENTAL, INC.

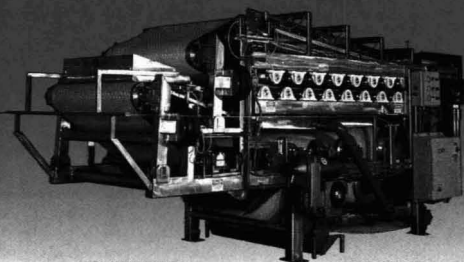
1-800-225-1945

Offering a variety of mixtures and sizes to choose from.

gas gas gas gas gas gas gas gas gas gas gas

Circle 174 on card.

DEWATERING SOLUTIONS



EQUIPMENT

- BELT FILTER PRESSES
- GRAVITY BELT THICKENERS
- SKID SYSTEMS
- MOBILE SYSTEMS

SERVICES

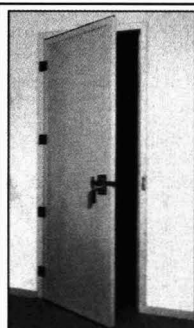
- Short and long term leasing
- Free lab testing
- Equipment refurbishing and updating

FRONTIER TECHNOLOGY, INC.

PH 616-673-9464

FX 616-673-9629

Circle 175 on card.



PLAS-TEC® DOOR

...the Heavy-Duty
Plastic Door
that delivers
more than
you expect!

Will not rust or
decay

STAINLESS
STEEL HINGES
AND LATCH

POSITIVE SILL
SWEEP
Mechanical sill stops
infiltration from dust,
fumes, etc.

STANDARD SIZES
24" • 32" • 36"
80" HIGH
Custom Sizes
Also Available

1-800-798-5678 • FAX 712-255-8292

R & D EQUIPMENT

A DIVISION OF HAZMAX, INC.

P.O. Box 744 • Sioux City, Iowa 51102 • 712-255-5205

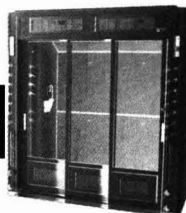
Circle 176 on card.

UNIMAX

LARGE WALK-IN FUME HOODS

- Durable advanced composite chemical resistant construction (No Steel Framing)

- Exhaust, filtration systems meet OSHA & EPA clean air requirements
- Services, accessories to suit your specifications
- Special Doors, floors can be custom engineered
- Custom built in sizes up to 16'Wx8'Dx12'H, complete with services to suit.



★ New HAZMAX Safe Work Enclosure

A large hazardous containment work area similar to the Unimax, except with recessed containment basin to control accidental spills. The answer to OSHA safe designated work areas!



HEMCO

For prompt service
call (816) 796-2900

111 North Powell, Independence, MO, U.S.A. 64056

Circle 177 on card.

Advertiser Index

Circle #	Advertiser	Page
38	Abanaki Corp.	46
18	ABB Air Preheaters	16
1	Advanced Environmental Systems	30
2	Advanced Environmental Systems	30
3	Advanced Environmental Systems	30
4	Advanced Environmental Systems	30
5	Advanced Environmental Systems	30
6	Advanced Environmental Systems	30
25	Advest Technologies Inc.	28
77	Aero Tec Labs	83
53	American Safety Risk Retention	62
58	Amiad	67
55	Andax Environmental Corp.	63
26	A V Systems	29
49	A.I.C.E.	59
81	Babcock Water Engineering	47
81	Basys Technologies	85
30	Bios International	34
46	Brown Bear Corp.	55
23	Bureau of National Affairs	25
52	Clean Ox	60
63	CNA Schinnerer	73
35	Delta Cooling Towers	72
67	DNV Loss Control Mgmt.	77
64	EarthSoft	74
65	ECOM-America	75
50	Energy Efficiency Systems Inc.	59
79	Environmental Resources Center	85
19	ERIS	17
12	Eslon Thermoplastics	9
43	Essential Technology Inc.	52
32	Excel Partnership	36
75	Flair Environmental	82
22	Foxboro Company, The	23
82	Foxboro Company, The	23
83	Foxboro Company, The	23
89	Foxboro Company, The	23
140	Foxboro Company, The	23
66	Goal Line Environmental Tech.	76
24	Golder & Associates	27
60	Groesby	69
78	Great Lakes Environmental	84
28	Haz-Stor Manufacturing Co.	44
34	Hertz Equipment Rental	39
74	HNU	81
56	Hydrolab Corp.	64
14	Infincon	11
76	IQUES	83
82	JJ Keller & Associates	86
84	Justrite	87
41	Land Combustion	50
11	Lexicon Environmental Assoc.	7
48	Little Beaver Inc.	57
98	Mapa Professional	187
85	Mazzei Injector	87
83	Met One Instruments	87
57	Milltronics	66
20	Misonix Inc.	18
44	Mother Oil Remediation Products	53
45	Oil Skimmers	55
8	Omega Engineering	2
174	Omega Engineering	2
73	Ozonon North America	188
69	PE Photovac	79
70	Phoenix Process Equipment Co.	31
54	Probiotic Solutions	63
27	Prototech Co.	29
29	Prototech Co.	31
16	Quantum Compliance Systems	13
17	RegScan	15
47	RESTEK	56
42	Rhone Poulenc	51
62	Rosemount Analytical	72
15	Royce Instrument Corp.	12
9	Rust Environment Infrastructure	3
33	SAMSCO Inc.	37
75	SIVA (Flair Environmental)	82
68	S&N Airoflo	78
31	S.G.S.I.C.S.	35
51	Taylor Environmental Products	60
21	Technical Heaters	19
80	Testo Inc.	85
36	Thermo Environmental Instruments	43
59	Tracer Research	68
72	Trans Environmental Services	81
13	UF Strainrite	10
61	Vista Information Solutions	71
39	Vortech Inc.	4
10	West Group	4
71	Wolverine Corp.	80

IN PRINT

192	AccuStandard Inc.	19
187	Andax Environmental Corp.	19
182	Datatest	18
184	DeZurick	18
188	Haz-Stor	19
193	John Wiley & Sons Inc.	19
183	Lechler Inc.	18
190	Mallinckrodt	19
191	Matheson Instruments Group	19
180	Mother Oil Remediation Products	18

Circle #	Advertiser	Page
185	Purac Engineering Inc.	19
181	P&D Solutions Corp.	18
189	Restek Corp.	19
186	Sealeze Corp.	19

BUYER'S GUIDE

145	Abanaki Corp.	152
125	ABB Air Preheater	136
129	Advest Technologies Inc.	153
167	Aero Tec Labs	163
127	Airsep	138
123	American Safety Risk Retention	134
58	Amiad	100
147	A V Systems	153
168	A.I.C.E.	163
148	Babcock Water Engineering	154
154	Basys Technologies	157
131	Bios International	142
141	Brown Bear Corp.	149
92	Bureau of National Affairs	103
151	Clean Ox Environmental Services	155
128	CNA Schinnerer	140
158	DNV Loss Control Mgmt.	152
91	Earth Soft	102
126	ECOM - America	137
155	Energy Efficiency Systems Inc.	157
161	Environmental Resource Center	159
106	ERIS	132
90	Eslon Thermoplastics	117
90	Essential Tech Inc.	101
103	Excel Partnership	114
93	Flair Environmental	104
94	Goal Line Environmental Tech.	130
94	Golder & Associates	105
95	Groesby Andersen	128
95	Great Lakes Environmental	106
162	Haz-Safe	160
166	HNU	162
56	Hydrolab Corporation	126
110	ILC Dover	123
130	ILC Dover	141
96	Infincon	107
108	US Filter/Davis Process	119
152	IQUES	155
169	Jaeger	164
101	JJ Keller and Associates	112
171	Land Combustion	166
124	Lexicon Environmental Association	135
97	Little Beaver Inc.	108
98	Mapa Professional	109
170	Martin Marietta Magnesia Specialists	165
163	Mazzei Injector	160
165	Met One Instruments	162
113	Milltronics	124
132	Misonix Inc.	143
99	Mother Oil Remediation Products	110
135	Oil Skimmers	145
37	Omega Engineering	133
122	Omega Engineering	133
144	Osmonics	151
150	Ozonon North America	155
144	PE Photovac	144
142	Phoenix Process Equipment Co.	163
133	Probiotic Solutions	144
136	Prototech Co.	145
138	Prototech Co.	147
159	Pumpex Inc.	159
120	Quantum Compliance Systems	131
118	RegScan	129
137	RESTEK	146
114	Rhone Poulenc	125
62	Rosemount Analytical	148
111	Royce Instrument Corporation	122
104	Rust Environment & Infrastructure	115
116	SAMSCO Inc.	127
109	Strategic Diagnostics Inc.	161
110	S&N Airoflo	120
112	S.G.S.I.C.S.	121
160	Taylor Environmental Products	159
149	Testo Inc.	154
102	Thermo Environmental Services	113
107	Tracer Research	118
156	Trans Environmental Services	157
172	Trumpf Inc.	167
105	UF Strainrite	116
108	US Filter/Davis Process	119
143	Vista Information Solutions	150
158	Vortech Inc.	158
160	West Group	111
153	Wolverine Corp.	156
157	Worldwide Technologies	158

NEW PRODUCTS

232	ABB Air Preheater Inc.	77
220	Action Instruments	75
210	ADS Environmental Services	73
261	Avery Dennison	84
238	BIOS International	79
223	BNA Communications	75
253	Boom Environmental	82
216	Breg International	74
226	Cambridge AccuSense Inc.	76
236	Carbital Corp.	78

Circle #	Advertiser	Page
217	Cordell and Associates	74
248	Dupont	82
259	Dwyer Instruments Inc.	84
250	Dynatec Systems Inc.	82
115	EarthSoft	73
247	Edwards Engineering Corp.	81
218	EIT	78
216	Environmental Supply Company Inc.	78
201	Foxboro Company, The	71
245	Franklin Miller Inc.	80
121	GeoPur Systems & Services Inc.	73
221	GL International Inc.	75
252	GL International Inc.	82
206	Global Water	72
251	Golder	82
200	Gorman Rupp Co.	71
254	G/O Corp.	83
262	G/O Corp.	84
271	HazMat Control Systems Inc.	87
211	HEMCO Corp.	73
275	HNU Systems Inc.	88
227	HNU Systems Inc.	76
255	Hoffland Environmental	83
205	H.L. Boulton Co. Inc.	72
257	J.T. Baker	83
264	Kin-Tek Laboratories Inc.	85
231	Lennox USA Inc.	77
204	Lumidur Safety Products	71
213	Marsh-McBirney Inc.	73
266	McMillan Co.	86
228	Midac Corporation	76
225	Modu Tank Inc.	76
249	Myron L. Co.	82
260	NOVAZONE	84
208	Oberg Environmental Products	86
202	Omega Engineering	71
269	Panametrics	86
258	Perkin-Elmer	84
230	Perma Pure Inc.	77
276	Perma Pure Inc.	88
272	Pumpex Inc.	88
235	Pumpex Inc.	78
244	Red Valve Company Inc.	80
207	RegScan	72
240	RGF Environmental Systems Inc.	79
256	Rosemount Analytical	83
243	Rosemount Analytical Inc.	80
212	Royce Instrument Corp.	73
203	Safety Storage Inc.	71
239	SAMSCO Inc.	79
241	Scott Health & Safety	79
219	Scott Health & Safety Products	75
237	S.G.S.I.C.S.	78
268	Slickbar	86
209	Solinst Canada Ltd.	72
263	Spartanburg	85
242	SRI Instruments	80
273	Testo Inc.	88
208	Testo Inc.	72
229	Thermo Environmental	77
215	Instruments Inc.	77
215	Thomas Scientific	74
246	Trumpf Inc.	81
224	Underwriters Laboratories Inc.	76
214	Uvex Safety	73
233	U.S. Filter/Johnson Screens	77
267	Veeder-Root	86
270	Visual Inspection Technologies Inc.	87
222	Wesorb Corp.	75
274	Zero Enclosures	88

PRODUCT LITERATURE

86	Art's Manufacturing	88
87	Solinst Canada Ltd.	88
88	Worldwide Technologies	88

CLASSIFIEDS

297	Groesby Andersen	93
286	Automation Products	90
295	Bird-X	93
298	CAE	94
300	CAE	95
291	Carolina Global Maps	93
296	DMC Instruments	91
284	EnviroData Solutions, Inc.	89
293	HazPack	92
289	Heinrich Environmental Inc.	90
290	Map Express Inc.	91
299	Modutank Inc.	95
294	Nutech	92
292	Nutech	92
288	Safety Services of Texas	90
285	SASSCO	89
287	Youngstown Barrel & Co.	90

HOT SPOTS

172	Eldredge Companies	185
175	Frontier Tech.	185
174	Heinrich Environmental, Inc.	185
177	HEMCO	185
173	GNESYS	185
176	R&D Equipment	185

FREE INFORMATION

Follow these
simple steps:

1

Answer all
questions
completely,
sign and date
your card.

2

Circle the
number(s) on
the attached
card that
correspond to the
advertisement
& items
mentioned in
this issue
that you would
like FREE
information on.

3

Detach and mail
your postage-
paid card today!
For faster
service, fax your
card to:

(312) 922-3165

IT'S THAT
EASY!

Environmental PROTECTION

FREE INFORMATION

For FREE information on products advertised in this issue, circle the Reader Service Number on the card below. Please type or print clearly and answer all the questions on the card.

PLEASE SEND ME FREE INFORMATION ON THE FOLLOWING ITEMS:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140
141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160
161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180
181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200
201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220
221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240
241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260
261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280
281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300

3/98 BUYING PLANS SURVEY AIR POLLUTION CONTROL PRODUCTS/SERVICES

1. Which of the following AIR POLLUTION CONTROL PRODUCTS/SERVICES do you plan to purchase in the next 12 months? (select all that apply)
 800 ☐ Activated Carbon Adsorbers
 801 ☐ Electrostatic Precipitators
 802 ☐ Fabric Filters (Baghouses)
 803 ☐ Thermal Oxidizers
 804 ☐ Cyclone Separators
 805 ☐ Replacement Filter Bags
 806 ☐ Scrubber Packing
 807 ☐ Incinerators

808 ☐ VOC Emissions Controls
 809 ☐ Ceiling Hung Precipitators
 810 ☐ Air Quality Instrumentation
 811 ☐ Title V Operating Permit Consultant
 812 ☐ Fans/Blowers
 813 ☐ Recorders
 814 ☐ Catalytic Oxidizers
 2. What is your projected budget for the product(s)/service(s)?
 815 ☐ Over \$200,000
 816 ☐ \$100,001-\$200,000

817 ☐ \$50,001-\$100,000
 818 ☐ \$10,001-\$50,000
 819 ☐ \$5,000-\$10,000
 820 ☐ Under \$5,000

3. How immediate is your need for the selected products/services? (select one)
 821 ☐ 3-6 months
 822 ☐ 7-9 months
 823 ☐ 10-12 months
 824 ☐ Over 12 months

SUBSCRIPTION INFORMATION

☐ YES, I would like to receive/continue to receive *Environmental Protection*. ☐ No.

Signature _____ Date _____

Title _____

Business Phone () _____ FAX No. () _____

Please peel address label from cover and affix below. For faster service photocopy this side only and send to our FAX # (312) 922-3165.

NAME _____
 COMPANY _____
 ADDRESS _____ ☐ Home ☐ Bus.
 CITY _____ STATE _____ ZIP _____ ZIP+4 _____

A. Function which best describes your activity in Pollution Control (check only one):
 A ☐ Corporate responsibility for Pollution Control
 B ☐ Manage all Pollution Control Operations at this location
 C ☐ Supervise sub-group in Pollution Control Operations
 D ☐ Provide professional consulting service on Pollution Control
 E ☐ Provide staff environmental service on Pollution Control
 Z ☐ Other _____

B. Type of Business (check only one):
 A ☐ Manufacturing. If manufacturing, please check the appropriate SIC (check only one):
☐ (20) Food ☐ (31) Leather
☐ (21) Tobacco ☐ (32) Stone/Clay/Glass
☐ (22) Textile ☐ (33) Primary Metal
☐ (23) Apparel ☐ (34) Fab. Metal
☐ (24) Lumber & Wood ☐ (35) Mach., except Elect.
☐ (25) Furniture ☐ (36) Elect. & Electron.
☐ (26) Paper ☐ (37) Trans. Equip.
☐ (27) Print/Publish ☐ (38) Miscellaneous Mfg.
☐ (28) Chemicals ☐ (39) Miscellaneous Mfg.

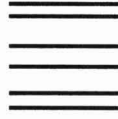
☐ (29) Petrol. & Coal ☐ (38) Instr./meas./analyze/controlling
☐ (30) Rubber/Plastic
 B ☐ Mining ☐ C ☐ Agriculture
☐ D ☐ Engineering & Contracting ☐ L ☐ Consulting ☐ M ☐ Insurance
☐ E ☐ Utilities, public, private & cooperative
☐ F ☐ Govt. including municipal or district sanitary water or wastewater treatment sys. or plants
 Type of Govt.:
☐ G ☐ City ☐ H ☐ County ☐ I ☐ State ☐ J ☐ Federal
☐ K ☐ Transportation ☐ N ☐ Labs
☐ O ☐ Training ☐ P ☐ Real Estate
☐ Z ☐ Misc. Services

C. Number employed at this location:
 A ☐ 1-19 ☐ B ☐ 20-49 ☐ C ☐ 50-99
☐ D ☐ 100-249 ☐ E ☐ 250-499 ☐ F ☐ 500-999
☐ G ☐ 1000-1499 ☐ H ☐ 1500-2499 ☐ I ☐ 2500 and up

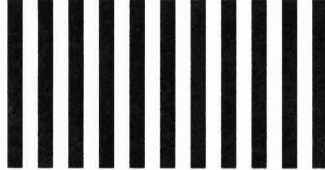
D. In your job function do you recommend, specify or purchase? (check all that apply)
☐ A ☐ Pollution Control Equipment
☐ B ☐ Instrumentation

C ☐ Chemicals
☐ D ☐ Parts & equipment for maintenance operation & control
☐ E ☐ Services/Consulting
☐ F ☐ None of the above
 E. What types of Pollution Control are you responsible for? (check all that apply)
☐ A ☐ Air ☐ B ☐ Water
☐ C ☐ Noise ☐ D ☐ Solid Waste Disposal
☐ E ☐ Industrial Hygiene
☐ F ☐ Toxic & Hazardous Material
☐ G ☐ Energy Control/Energy Conservation
☐ H ☐ None of the above

F. Which of the following publications do you receive personally addressed to you? (check all that apply)
☐ A ☐ Pollution Engineering
☐ B ☐ Environment Today
☐ C ☐ Environmental Solutions
☐ D ☐ Pollution Equipment News
☐ E ☐ The National Environmental Journal
☐ F ☐ Water Environment & Technology
☐ G ☐ None of the above



NO POSTAGE
NECESSARY
IF MAILED
IN THE
UNITED STATES



BUSINESS REPLY MAIL

FIRST CLASS MAIL PERMIT NO. 1791 WACO, TX

POSTAGE WILL BE PAID BY ADDRESSEE

Stevens Publishing

**Environmental
PROTECTION**

Creative Data
650 S. Clark St. Floor 6
Chicago IL 60605-9626



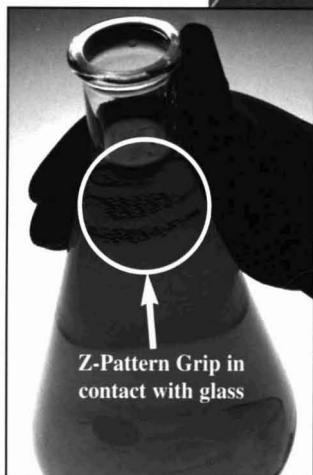
Only **MAPA** **HELPS YOU** **GET A GRIP**

with a Z-pattern embossed-grip glove, the heavy gauge 100% Neoprene Chem-Ply, used

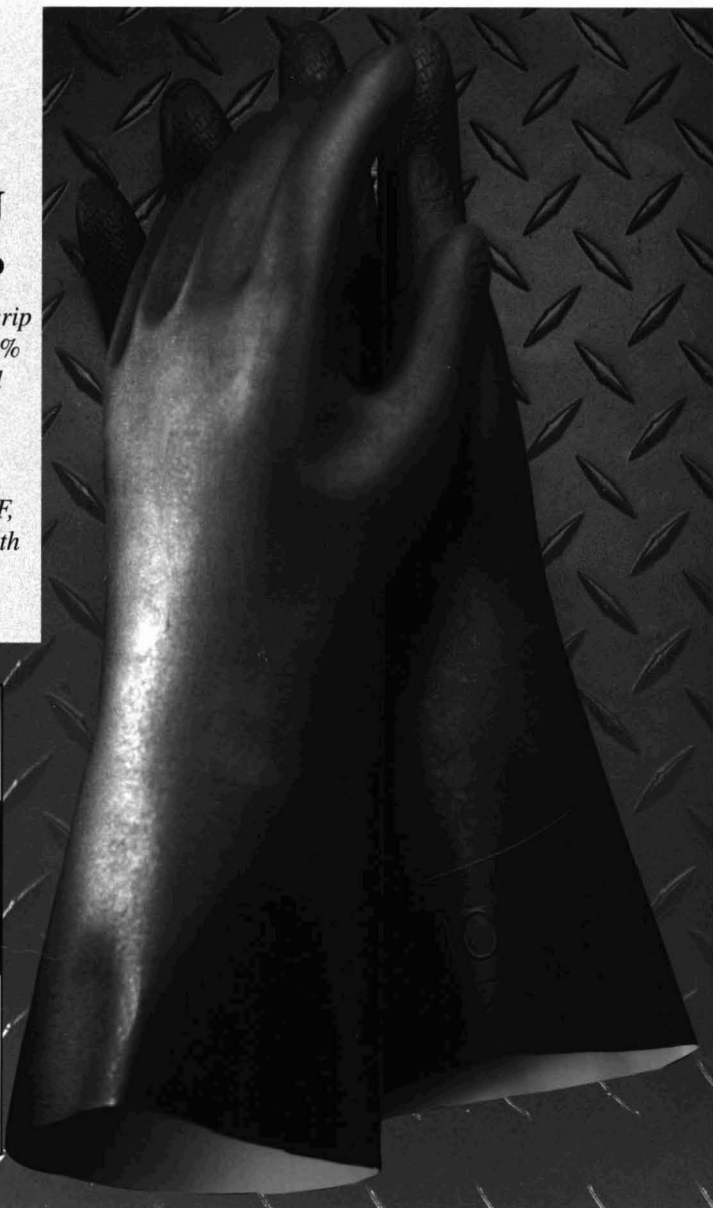
ON TOXIC

compounds such as MEK, methylene chloride, and HF, known severe skin and health

HAZARDS!



**Z-Pattern Grip in
contact with glass**



Compare the new MAPA Professional Chem-Ply chemical-barrier glove to exotic-polymer gloves such as Viton and Butyl-rubber costing two to six times as much. The Chem-Ply's 100% Neoprene construction guarantees long life against toxic chemical permeation. Available in three different gauges, the Chem-Ply lets you match the glove to the job. Choose the heavy 40-mil N-540 against severe hazards such as Haz-Mat work or aggressive solvents, or the lighter 22-mil

N-360 or 30-mil N-440 when more flexibility and dexterity are required. Both the 13" and the **NEW** 18" versions, N-730 and N-740 (available fall '97), feature MAPA's exclusive Z-pattern embossed grip to channel fluids off the working surface, to insure a secure grip. 30- and 40-mil Chem-Ply gloves meet strict NFPA standards for protective clothing. If toxic chemical hazards are causing you to *lose your grip*, call **MAPA Customer Service** today!

MAPA[®] **PROFESSIONAL**

PIONEERS IN HAND PROTECTION

512 East Tiffin St. • Willard, OH 44890 • 1-800-537-2897 • Fax: 1-800-537-3299 • e-mail: sales@mapaglove.com • <http://www.mapaglove.com>

Circle 178 on card.



Discover Osmonics

On January 24, 1848, James Marshall found gold at Sutter's Mill in Coloma, California. His discovery launched the Gold Rush and changed California forever (pretty good for an afternoon's work). In the same vein, Osmonics equipment recovers valuable materials from process streams at industrial facilities in

California – and around the world. We're dedicated to discovering recovery solutions that help you reduce waste and boost efficiency. And we provide the local sales and service you need over the long term. It's all part of our total commitment to fluid purity – one we've upheld since 1969.

HIT PAYDIRT RIGHT NOW

Try the Osmonics Instant Response System. You'll find a deep vein of application case studies, technical articles and product specifications.

To begin your discovery, visit www.osmonics.com/instant/process or call (800) 707-7209.



OSMONICS

5951 Clearwater Drive
Minnetonka, MN 55343-8995 USA

Circle 179 on card.

9 21 11 2519