## **Contents**

WASIE SORTING AND SEFARATING I	
The Place of the Trommel in Resource Recovery  J. W. Sullivan, R. D. Hill, and J. F. Sullivan  Vibrating Process Equipment for Resource Recovery  A. Musschoot, R. Sherman, and W. Guptail  Solid Waste Front-End Processing with Mass-Burn Incineration to Recover Recyclable Material.  W. M. Mahlum, Jr. and A. Chattopadhyay	2:
COMPOSTING I	
Compost Site Design Model: A Computer-Aided Tool for Efficient Siting  J. D. Lindeberg, S. L. Drew, and C. Derosia  Bio-Waste Composting Facility at the Waste Authority of S.O.W., Hoorn/Netherlands  T. Schütte, B. Göggel, and U. Maire  Solid Waste Composting in New York  M. Wagner	31 41 51
RDF CASE STUDIES	
Managing Tube Metal Wastage in RDF-Fired Boilers at Elk River Station  T. P. Steinbeck	61
Rebuilding the RDF-Fired Steam Generators at Metro Dade County, Florida  W. M. Zill and P. J. Meehan  Annual Snapshot of Six Large Scale RDF Projects	69 75
LANDFILL RECOVERY/RECLAMATION I	
The Use of Selected Waste Products for the Reclamation of Existing MSW Landfill Sites  W. H. Chesner and J. P. Welsh	89
Processing of Material Mined from Landfills  R. I. Stessel and R. J. Murphy  Compost Site Design for a Closed Sanitary Landfill  G. Dakes	101 113
COMBUSTION METHODS AND MEASUREMENTS	
Long Term HHV Determination of Municipal Solid Waste — A Practical Approach	121
Study of a MSW Incinerator: Overall Operation and On-Site Measurements Over the Grate	133
Development of Good Combustion Practice for Municipal Waste Combustors	145

ASH TREATMENT AND UTILIZATION I	
RDF — Materials Recovery and Utilization: An Integrated Approach	157
G. L. Boley, R. M. Hartman, A. L. Plumley, and M. L. Smith	4 4 8
The Design and Operation of an Ash Treatment System at the Commerce Refuse to Energy Facility  E. Wheless and S. Thalenberg	165
An Evaluation of the Determination of Putrescible Matter in the Ash Residue of a MSW Combustor.	171
G. H. Gesell and F. A. Hamlyn	
INTEGRATED WASTE MANAGEMENT	
Asotin County, Washington — A Small County Can Make Integrated Waste Management Work  N. A. Speed and R. L. Weaver	177
Graphical Integrated Waste Management Model for Puerto Rico	185
S. A. Vigil and H. M. Theisen  What To Do What Voya Incinerates Cata Shut Dawn SOCRBA's Annual Incinerates Cata Shut Dawn Socration Ca	101
What To Do When Your Incinerator Gets Shut Down: SOCRRA's Approach	191
WASTE SORTING AND SEPARATING II	
Development of an Automated Color Sorting System for Recyclable Glass Containers	197
M. R. Lewis and T. A. Newell	•••
Applying Machine Learning to the Sorting of Recyclable Containers	209
Time and Motion Analyses of Manual Sorting Procedures at Materials Recovery Facilities	217
M. D. Jones	
COMPOSTING II	
Evaluation of Composting Feasibility for Regional Implementation	225
M. E. Lang and R. A. Jager	
Co-Composting Municipal Solid Waste: Economic Analysis for Cost-Effective Processing and Marketing	
TW. Lai and J. Strasma	
Sludge and Yard Waste Co-Composting: In-Vessel System Development	
D. S. Brown	
AIR POLLUTION CONTROLS	
Technical and Regulatory Challenges of Acid Gas Scrubber Retrofits	252
M. P. Hepp and D. L. Raymond	253
Dry Flue Gas Cleaning Processes for Achieving Air Pollutant Emissions Requirements	261
T. G. Brna Estimating Stack Gas Emission Rates	272
H. G. Rigo	273
LANDFILL RECOVERY/RECLAMATION II	
Applying Landfill Gas to Commercial Greenhouse Operations.	293
B. C. Bond and J. Quinn Polos Vardes I andfill Gas to Energy English	200
Palos Verdes Landfill Gas to Energy Facility	299

¥

PLASTICS RECYCLING	
Automated Separation of Commingled Plastic Containers	
G. R. Kenny, D. R. Morgan, and A. H. Stephens Evaluating the Mechanical Properties of Commingled Waste Plastics: A Mixture Study	
M. D. Monfore, R. L. Morgan, and P. V. Engelmann	
Recycling Post-Consumer Polystyrene: Economics, Markets and Technology	323
E. Nevers and J. Strasma	
ASH TREATMENT AND UTILIZATION II	
Development of an MSW Ash Melting System of Low Running Cost	
S. Inoue, H. Hagihara, and M. Fukusaki	
New Metal Recovery Systems for Mass Burn Incinerators and WTE Facilities	
M. Alam and M. D. Challis	
SOLID WASTE AND THE PUBLIC	
Impact of the Recession and Recycling on Solid Waste Processing Facilities in New England	
The Environmental and Health Impact of Waste Combustion — The Rush to Judgement Versus Get-	
ting the Facts First	361
F. Hasselriis	
Development of Solid Waste Management Courses at the Undergraduate and Graduate Level	371
S. A. Vigil and G. Tchobanoglous	
MRFS AND IPCS	
Recycling Plants in Japan and the Operational Summary	
K. Nakazato, S. Inoue, and T. Hamano	
A Comparison of Intermediate Processing Center Reference Designs and Costs.	385
J. A. Mathews and T. C. Forbes  Material Recovery Design of Ocean County, New Jersey	395
E. J. Romeo, Jr.	373
L. V. Romso, VI.	
COMPOSTING III	
Potential for Composting Residue Generated from Refuse Derived Fuel Preparation.	407
H. M. Kosstrin, G. Croteau, and M. Gould	
Compost Markets	423
W. P. Healey and D. S. Mehrenberg	429
Bioremediation Using Composting	427
IC 1. William Black II. IC ICCOM	
SPECIAL WASTES: HHW, TIRES, MEDICAL WASTE	
Controlling the Cost of Household Hazardous Waste Collection and Disposal	435
Waste Tire Co-Firing for Increased Winter Steam Production in Harford County Resource Recovery	

Facility.....

Effect of Waste Composition and Charging Cycle on Combustion Efficiency of Medical and Other Solid Waste Combustors.....

Pollution Prevention and Institutional Incineration

K. S. Feindler

F. Hasselriis

A. Green, J. Wagner, C. Saltiel, and M. Jackson

441

453

463