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ANALYTICA CHIMICA ACTA

INFORMATION FOR AUTHORS

Analytica Chimica Acta publishes original papers, short communications, preliminary communications, and reviews dealing with every aspect of modern chemical analysis, both fundamental and applied.

Reviews are written by invitation of the editors, who welcome suggestions for subjects. Short communications are usually complete descriptions of limited investigations, and should generally not exceed six printed pages. Preliminary communications of important urgent work can be printed within four months of submission, if the authors are prepared to forego proofs.

Submission of papers

Authors should submit three copies of the manuscript in double-spaced typing on one side of the paper only, with a margin of 4 cm, on pages of uniform size. If any variety of machine copying is used (e.g., xerox), authors should ensure that all copies are easily legible and that the paper used can be written on with both ink and pencil. Authors are advised to retain at least one copy of the manuscript. Manuscripts should be preceded by a sheet of paper carrying (a) the title of the paper, (b) the name and full postal address of the person to whom proofs are to be sent, (c) the number of pages, tables and figures.

Manuscripts should be sent to the editorial addresses given on the covers of current issues; submission to the publisher leads to delays. Submission of a manuscript implies that the work described has not been, and will not be, published elsewhere (except as an abstract, or as part of a lecture, review or academic thesis). Upon acceptance of the manuscript, the author(s) will be asked to transfer the copyright of the article to the publisher. This transfer will ensure the widest possible dissemination of information.

The preferred language of the journal is English, but French and German manuscripts are also acceptable. For authors whose first language is not English, French or German, linguistic improvement is provided as part of the normal editorial processing.

Notes on the preparation of manuscripts

Authors are given every latitude, consistent with clarity and brevity, in the style and form of their papers. Very useful advice is provided in the Handbook for Authors issued by the Royal Society of Chemistry and the American Chemical Society.

Title and initial layout. All manuscripts should be headed by a concise but informative title. This is followed by the names of the authors, and the address of the laboratory where the work was carried out. The author to whom correspondence should be addressed must be indicated by an asterisk (without a footnote). If the present address of an author is different from that mentioned, it should be given in a footnote. Acknowledgements of financial support should not be made in footnotes, but at the end of the paper.

Summary. Research papers and reviews begin with a Summary (50–250 words) which should comprise a brief factual account of the contents of the paper, with emphasis on new information. Short communications and preliminary communications require summaries, which should not exceed 50 words. Uncommon abbreviations, jargon and reference numbers must not be used. The Summary should be suitable for use by abstracting services without rewriting. Papers in French or German require a Résumé or Zusammenfassung preceded by a Title and Summary in English; authors are encouraged to provide translations where necessary.

Introduction. The first paragraphs of the paper should contain an account of the reasons for the work, any essential historical background (as briefly as possible and with key references only) and preliminary experimental work.

Experimental. The experimental methods may be described after the introductory material, or after the discussion of results, depending on the nature of the paper. Detailed experimental descriptions should, however, be restricted to one section of the paper, and not scattered throughout the text. Working procedures should be given in the imperative mood; sufficient detail should be given to allow any reasonably experienced worker to carry out the procedure. Detailed descriptions of well known techniques and equipment are unnecessary, as are simple preparations of reagents or solutions, and lists of common chemicals. Manufacturers should be named only if the product differs essentially from that of other manufacturers. Local suppliers for multinational concerns should not be named. In writing, complete sentences should be used, and procedural steps should not be numbered.

Results and discussion. These may be treated together or separately. In discussing results, unnecessary repetition of experimental detail, unsupported elaboration of hypotheses, and verbose exposition of ideas should be avoided. Chemical formulae should not be used in the text unless confusion is likely to arise from the use of names. Formulae should, however, be used for brevity in tables and figures. Calculations well known to specialists are unnecessary. Conclusions should be added only if needed for interpretation; they should not be used as extended summaries nor should they duplicate the summary.

Acknowledgements. These should be kept as short as possible, and placed, without a heading, at the conclusion of the text.

References

The references should be collected at the end of the paper, numbered in the order of their appearance in the text (*not* arranged alphabetically), and typed on a separate sheet. If the paper forms part of a series, the reference to the previous part should appear as the first reference, the number being cited at the title of the paper. References given in tables should be numbered according to the position of the table in the text. Every reference listed must be cited in the text. Reference numbers in the text are set in square brackets on the line.

In the list of references, the following forms should be adopted.

Journals

1 W. Lund and M. Salberg, *Anal. Chim. Acta*, 76 (1975) 131.

2 M. McDaniel, A. D. Shendrikar, K. D. Reizneir and P. W. West, *Anal. Chem.*, 48 (1976) 2240.

The title of the journal must be abbreviated as in the Bibliographic Guide for Editors and Authors.

Books

1 D. D. Perrin, *Masking and Demasking of Chemical Reactions*, Interscience-Wiley, New York, 1970, p. 188.

2 S. Hofmann, in G. Svehla (Ed.), *Wilson and Wilson's Comprehensive Analytical Chemistry*, Vol. 9, Elsevier, Amsterdam, 1979, p. 89.

Titles of papers are unnecessary. Citations of reports which are not widely available (e.g., reports from government research centres) should be avoided if possible. Authors' initials should not be used in the text, unless real confusion could be caused by their omission. If the reference cited contains three or more names, only the first author's name followed by *et al.* (e.g., McDaniel *et al.*) should be used in the text; but the reference list must contain the initials and names of *all* authors.

Tables, computer programs, and figures

Tables and figures must be essential for the clear and concise presentation of the material. The same information should not be given in tables and figures, and material from the published literature should not be reproduced.

Tables. All tables should be numbered with Arabic numerals, and have brief descriptive headings; they should be typed on separate pages. The layout should be given serious thought, so that the significance of the results can be grasped quickly. Column headings should be brief.

Tables with only two or three headings are best printed horizontally, e.g.,

Hg ²⁺ added (μg)	1.0	2.0	3.0	5.0
Extraction (%)	95.0	99.8	99.5	89.0

Experimental information which is relevant to all the results in the table is best given in parentheses immediately after the heading. No column should contain the same number or unit throughout its length. Footnotes to tables are denoted by superscript a, b, c... The units used should be clearly stated. Confusion can arise from the use of powers in column headings. The following usage is recommended: e.g., if molar absorptivities are listed, the heading should be ϵ ($10^4 \text{ l mol}^{-1} \text{ cm}^{-1}$) so that a number 2.32 in the column signifies 23 200.

Alphanumeric computer output is usually unsuitable for reproduction and should therefore be retyped and presented as tables; capitals can be used to simulate computer output if such simulation is essential for illustration.

Computer programs. Algorithms should be described clearly and concisely by means of a suitable algorithmic notation, although a standard high-level programming language may also be used. Complete program listings are not normally admissible. Flow charts should be avoided in favour of a textual or tabulated description of the program or data flow. Statements on the portability of the software described to other computer systems, as well as on its availability to interested readers, should be given.

Figures. Figures should be prepared in black waterproof drawing ink on drawing or tracing paper of the same size as that on which the manuscript is typed. One original (or sharp glossy print) and two photostat (or other) copies are required. Attention should be given to line thickness, lettering (which should be kept to a minimum) and spacing on axes of graphs, to ensure suitability for reduction during printing. Axes of a graph should be clearly labelled, along the axes, and outside the graph itself.

The following standard symbols should be used in graphs:

▼ ∇ ■ □ + × ● ○ ▲ △

All figures should be numbered with Arabic numerals, and require descriptive legends. Explanatory information should be placed not in the figure, but in the legend, which should be typed on a separate sheet of paper. Simple straight-line graphs are not acceptable, because they can readily be described in the text by means of an equation or a sentence. Claims of linearity should be supported by regression data that include slope, intercept, standard deviations of the slope and intercept, standard error, and the number of data points; correlation coefficients are optional.

Photographs should be glossy prints and be as rich in contrast as possible; colour photographs cannot be accepted. In general, line diagrams are more informative and less liable to dating than photographs of equipment, which are therefore not usually acceptable.

Computer outputs for reproduction as figures must be good quality on blank paper, and should preferably be submitted as glossy prints.

Nomenclature, abbreviations and symbols

In general, the recommendations of the International Union of Pure and Applied Chemistry (IUPAC) should be followed, and attention should be given to the recommendations of the Analytical Chemistry Division in the journal *Pure and Applied Chemistry* (see also *IUPAC Compendium of Analytical Nomenclature*, 1978).

Basic SI and other accepted metric nomenclature are given in the Appendix. In accordance with IUPAC rules, the mass number, atomic number, number of atoms and ionic charge should be designated by a left upper index, a left lower index, a right lower index and a right upper index, respectively, placed round the atomic symbol. For example, the phosphate ion should be designated as PO_4^{3-} (not PO_4^{-3} or PO_4^{--}), and phosphorus-32 as ^{32}P (not P^{32} or P-32).

The Stock notation for the indication of stoichiometric valency states (and indirectly the proportion of the constituents) should be used. Examples are iron(III) chloride rather than ferric chloride, and potassium hexacyanoferrate(II) rather than potassium ferrocyanide. These rules are valid for French and German as well as English usage.

The use of nanometre (nm) and micrometre (μm) for the expression of analytical wavelengths has long superseded $\text{m}\mu$ or \AA or μ , all of which should be avoided, although \AA is sensibly retained in crystallographic work.

Natural or Napierian logarithms should be denoted by \ln and decadic logarithms by \log .

Molarity (mol l^{-1} or M) is the preferred concentration unit, but normality (N) can be used for convenience if it does not introduce ambiguity.

Unusual abbreviations require definition when first used. Abbreviations for long chemical names (e.g., EDTA, HEDTA, TBAH, en, pn, Tris) are useful, especially in equations, tables or figures. For ease of distinction, well known techniques may be abbreviated by using lower-case letters and full stops, such as, g.c.m.s., u.v., i.r., a.a.s., ^{13}C -n.m.r., a.s.v., d.p.p., etc. In the interests of clarity, however, excessive use of abbreviations is not encouraged.

Ambiguity in expressing dilution can be avoided by the use of, e.g., (1 + 2) rather than 1:2 which could mean either one part diluted with two parts or one part diluted to twice its volume.

Symbols, formulae and equations should be written with great care, capitals and lower-case letters being distinguished where necessary. Greek letters and unusual symbols should be defined by name in the left-hand margin beside their first appearance in the paper. Wherever possible, mathematical expressions should be typed on one line, by using brackets, e.g., $\{ \{ () \}$, and the solidus, e.g., $A/b = x^{1/2}/(u+v)^{5/6}$; this is valuable in conserving vertical space. Particular attention should be given to the correct sequence of brackets and to the correct placing of superscripts and subscripts in complicated equations; careful proof-reading of such equations is essential. Short equations should not be numbered unless required for subsequent reference.

Decimal points should be indicated by full stops in papers written in English and by commas in French and German papers. All decimal numbers smaller than unity should include a leading zero (e.g., 0.11).

Appendix

Basic SI units

metre	m	candela	cd
kilogram	kg	mole	mol
second	s	(an Avogadro number of particles such as atoms, molecules, ions, electrons.)	
ampere	A		
degree Kelvin	K		

Derived SI units

joule	J	$\text{kg m}^2 \text{s}^{-2}$	farad	F	A s V^{-1}
newton	N	J m^{-1}	weber	Wb	V s
watt	W	J s^{-1}	henry	H	V s A^{-1}
coulomb	C	A s	tesla	T	V s m^{-2}
volt	V	$\text{J A}^{-1} \text{s}^{-1}$	hertz	Hz	s^{-1}
ohm	Ω	V A^{-1}	degree Celsius	$^{\circ}\text{C}$	$\text{K} - 273.15$

Other units

litre	l	10^{-3} m^3	hour	h	$3.6 \times 10^3 \text{ s}$
gram	g	10^{-3} kg	dyne	dyn	10^{-5} N
poise	P	$10^{-3} \text{ m}^{-1} \text{ s}^{-1}$	atmosphere	atm	$101.325 \text{ kN m}^{-2}$
electron volt	eV	$1.6021 \times 10^{-19} \text{ J}$	molar	M	mol l^{-1}
calorie	cal	4.184 J	molal	m	mol kg^{-1}
minute	min	60 s	curie	Ci	$3.7 \times 10^{10} \text{ s}^{-1}$

Prefixes to abbreviations for the names of units indicating

Multiples		Sub-multiples			
tera ($\times 10^{12}$)	T	milli ($\times 10^{-3}$)	m	pico ($\times 10^{-12}$)	p
giga ($\times 10^9$)	G	micro ($\times 10^{-6}$)	μ	femto ($\times 10^{-15}$)	f
mega ($\times 10^6$)	M	nano ($\times 10^{-9}$)	n	atto ($\times 10^{-18}$)	a
kilo ($\times 10^3$)	k				

ACA announcements

PRIZE

PRIZE BIOCHEMICAL ANALYSIS 1988

The German Society for Clinical Chemistry awards the prize Biochemical Analysis every two years at the conference "Biochemische Analytik" in Munich, F.R.G.

The prize of DM 20 000.00 is donated by Boehringer Mannheim GmbH for outstanding and novel work in the field of biochemical analysis or biochemical instrumentation or for significant contributions to the advancement in experimental biology especially relating to clinical biochemistry.

Competitors for the 1988 prize (conference April 19-22, 1988) should submit papers concerning one theme, either published or accepted for publication between October 1st 1985 and September 30th 1987, before October 15th 1987, to: Prof. Dr. H. Feldmann, Secretary of the prize Biochemical Analysis; Institut für Physiologische Chemie der Universität, Goethestrasse 33, D-8000 München 2, F.R.G. If several authors are involved in this work, please indicate the name(s) of the candidate(s).

ANNOUNCEMENTS OF MEETINGS

1st INTERNATIONAL SYMPOSIUM ON THE INTERFACE BETWEEN ANALYTICAL CHEMISTRY AND MICROBIOLOGY, APPLICATIONS OF CHROMATOGRAPHY AND MASS SPECTROMETRY, COLUMBIA, SC, U.S.A., JUNE 3-5, 1987

This new international symposium, sponsored by the College of Science and Mathematics and by the School of Medicine of the University of South Carolina, will serve to forge connections between analytical chemistry and microbiology at a level that emphasizes both the fundamental development and practical application of chromatographic and mass spectrometric methods. The depth of growing interdisciplinary efforts by both analytical chemists and microbiologists necessitates a symposium where both groups of researchers can meet on a common ground. The symposium will be planned with ample opportunity for discussion in large groups as well as in informal settings.

Plenary lectures will be presented by speakers invited by the international organizing committee. Contributions in the form of presented papers and posters are also solicited from participants. A book covering the plenary talks presented at the meeting will be published by Plenum after the meeting. A copy of this book will be distributed free to all registered participants. Papers or posters presented at the meeting may also be submitted to the *Journal of Microbiological Methods*.

The symposium will have an interdisciplinary flavor, emphasizing analytical chemical applications of chromatography and mass spectrometry in microbiology. Topics relevant to the meeting include: chemotaxonomy; direct analysis of chemical markers for microorganisms; GC, LC and MS in environmental microbiology; applications of GC, LC and MS in the food industry; analysis of tissues and fluids for bacteria and fungi; rapid detection and identification of biological materials; clinical microbiology applications; computer assisted pattern recognition/data handling; sample handling/preparation; pyrolysis GC, pyrolysis MS, pyrolysis GC-MS of microorganisms; derivatization methods coupled to GC, GC-MS, LC, and LC-MS; headspace analysis of volatile fermentation products; high-resolution MS methods.

The meeting will be held at the conference facilities of the University of South Carolina in Columbia, SC, U.S.A. Lodging will be provided in single or double rooms. There are excellent airline connections to Columbia through Atlanta and Charlotte from New York, Washington, Houston, Dallas, and the west coast, as well as several direct connections from New York and Newark. Registration and lodging fees should be paid in advance; checks should be made out in U.S. dollars.

Mailing address for symposia correspondence and registration fees: 1st International Symposium on the Interface between Analytical Chemistry and Microbiology, P.O. Box 7126, Columbia, SC 29202, U.S.A.

29th ROCKY MOUNTAIN CONFERENCE, DENVER, CO, U.S.A., AUGUST 2-6, 1987

This conference is sponsored by the Rocky Mountain Section of the Society for Applied Spectroscopy and the Rocky Mountain Chromatography Discussion Group and will be held at the Radisson Hotel-Denver, Denver, CO, U.S.A.

Planned symposia include: atomic spectroscopy, electron paramagnetic resonance, supercritical fluid chromatography, infrared spectroscopy, nuclear magnetic resonance, computer applications, ion chromatography, chromatography, mass spectrometry, inductively-coupled plasma/mass spectrometry, environmental chemistry, near-infrared reflectance spectroscopy, quality control, and a special award as part of the Harold F. Walton Symposium.

For further information contact: Jan Gurnsey, 5531 Bitterbush Way, Loveland, CO 80537, U.S.A. Tel.: (303) 669-9216.

101st AOAC ANNUAL INTERNATIONAL MEETING AND EXPOSITION ON ANALYTICAL METHODOLOGY, SAN FRANCISCO, CA, U.S.A., SEPTEMBER 14-17, 1987

The 101st AOAC Annual International Meeting and Exposition on Analytical Methodology will be held at The Cathedral Hill Hotel, in San Francisco, CA, U.S.A., September 14-17, 1987.

This year the extensive technical programme will spotlight robotics; four other topics will be: biotechnology, mycotoxins, industrial analytical chemistry and cholesterol oxidates. Subjects of contributed papers presented in poster session format include chemical, microbiological, macrobiological, biochemical, mycological, or toxicological analysis of foods, beverages, residues, additives, drugs, diagnostics, test kits, forensics, pesticides, fertilizers, feeds, drugs in feeds, plants, disinfectants, and hazardous substances in water, soil, and sediments. Additional technical programme features include the popular open forum and the regulatory roundtable.

At the Exposition, more than 90 analytical equipment, services, and publications suppliers will present their products and services in the exhibit hall.

AOAC will also offer the short course, Quality Assurance for Analytical Laboratories (fee not included in the registration fee).

For further details, contact: AOAC Office, 1111 N. 19th Street, Suite 210, Arlington, VA 22209, U.S.A. Tel.: (703) 522-3032.

1987 INTERNATIONAL SOCIETY FOR ELECTROCHEMISTRY MEETING, MAASTRICHT, THE NETHERLANDS, SEPTEMBER 14-18, 1987

The main themes of the 1987 ISE meeting are: electrochemistry for new materials and new materials for electrochemistry. The topics will be solid-state electrochemistry, modified electrodes, conducting polymers, electrochemical methods for non-destructive testing, advances in chloralkali electrolysis technology, etc.

For further information, contact: Dr. W. Visscher, Laboratory for Electrochemistry, Department of Chemical Technology, Eindhoven University of Technology, P.O. Box 513, 5600 MB Eindhoven, The Netherlands.

FACSS XIV, FEDERATION OF ANALYTICAL CHEMISTRY AND SPECTROSCOPY SOCIETIES, DETROIT, MI, U.S.A., OCTOBER 4-9, 1987

The 1987 FACSS meeting will be held at Cobo Hall and the Westin Hotel in Detroit, MI, U.S.A. From October 4 until October 9 the Federation of Analytical Chemistry and Spectroscopy Societies, FACSS, will hold their fourteenth annual meeting.

As in the past, workshops and short courses will be offered prior to, during, and after the conference. The FACSS Employment Bureau will again be available to conference attendees. Centrally located at the meeting will be an exhibition of scientific instrumentation, services, and publications.

For further information contact the publicity chairman, Dr. Steve Swarin, Analytical Chemistry Department, General Motors Research Laboratories, Warren, MI 48090-9055, U.S.A. Tel.: (313) 986-0806.

PROCESS ANALYSIS AND CONTROL SYMPOSIUM SCHEDULED FOR FACSS '87

A symposium on process analysis and control will be part of the 1987 FACSS (Federation of Analytical Chemistry and Spectroscopic Societies) meeting, to be held in Detroit, MI, U.S.A. on October 4-9, 1987. The symposium is a forum for the presentation of research in the following areas: chemometrics in service of process analysis and control; the role of analyzer data in process modeling, optimization, and control; spectroscopic instrumentation for process analysis; new developments in process chromatography; process analyzers, sensors, and transducers.

For further information contact: FACSS Assistant Program Chair, Dr. Deborah Illman, Center for Process Analytical Chemistry, BG-10, University of Washington, Seattle, WA 98195, U.S.A.

ANABIOTEC '88, 2nd INTERNATIONAL SYMPOSIUM ON ANALYTICAL METHODS AND PROBLEMS IN BIOTECHNOLOGY, NOORDWIJKERHOUT, THE NETHERLANDS, MARCH 29-31, 1988

The Second International Symposium on Analytical Methods and Problems in Biotechnology, ANABIOTEC '88, will be held in Noordwijkerhout, The Netherlands, March 29-31, 1988. Topics covered will include: analytical techniques already successfully applied in biotechnology; the selection of analytical procedures with regard to optimum process control in industrial biotechnology, environmental biotechnology, and fundamental and developmental research; and the development of new analytical techniques in these areas. The scientific programme will consist of invited plenary lectures, invited and submitted papers (both oral and poster presentations) and discussion sessions. The symposium language will be English.

Sessions are planned on: sampling strategies, biosensors, mass spectrometry in process control, application of computers in analysis and process control, prospects for practical application of new analytical techniques, analytical problems in biotechnology. Participants wishing to present a paper should submit an abstract of about 250 words to the Symposium Secretariat before October 15, 1987.

Information on ANABIOTEC '88 can be obtained from: Symposium Secretariat ANABIOTEC '88, c/o QLT Convention Services, Keizersgracht 792, 1017 EC Amsterdam, The Netherlands. Tel.: (20) 261372, telex: 31578 INTER NL attn. QLT.

5th INTERNATIONAL WORKSHOP ON TRACE ELEMENT ANALYTICAL CHEMISTRY IN MEDICINE AND BIOLOGY, NEUHERBERG, F.R.G., APRIL 15-18, 1988

The 5th International Workshop on Trace Element Analytical Chemistry in Medicine and Biology will be held at the Gesellschaft für Strahlen- und Umweltforschung Neuherberg, F.R.G., April 15-18, 1988.

The 5th Workshop will be the continuation of a well known series of this special type of biennial meeting. A major aim of these meetings is to bring together experts highly experienced in the analytical and biomedical field. It is hoped that the 5th Workshop will lead again to a productive scientific dialogue between these two groups as far as biomedical applications of trace element analytical research are concerned. The international and multi-disciplinary character of the Workshop should provide a good working forum for all those interested in the subject.

The main scientific topics of the 5th Workshop will be: analysis for trace elements, speciation of trace elements and trace elements in the bio-medical field.

Abstracts of papers intended as contributions to the Workshop must be submitted in English (three copies), to the Chairman of the Organizing Committee by November 30, 1987.

Further information from: Gesellschaft für Strahlen- und Umweltforschung mbH, Institut für Ökologische Chemie, AG "Spurenelementanalytik", Dr. P. Schramel, Ingolstädter Landstrasse 1, D-8042 Neuherberg, F.R.G.

4th SYMPOSIUM ON HANDLING OF ENVIRONMENTAL AND BIOLOGICAL SAMPLES IN CHROMATOGRAPHY, BASLE, SWITZERLAND, APRIL 27-29, 1988

The fourth meeting in this series (previous symposia took place in Lausanne, Freiburg and Palma de Mallorca) will be held in Basle, Switzerland, on April 27-29, 1988. The organisation of the meeting is in the hands of the International Association of Environmental Analytical Chemistry. A strong industrial participation is planned. The symposium will feature invited and contributed lectures and posters. It is the intention of the organisers to bring together specialists in this field who can give a good account of the state of the art in their respective specialty and to present first-hand experience in sample handling.

For further information and for submission of contributions please contact: Professor R.W. Frei, Department of Analytical Chemistry, Free University, De Boelelaan 1083, 1081 HV Amsterdam, The Netherlands. Tel.: (020) 5485379.

4th INTERNATIONAL CONFERENCE ON CHEMOMETRICS IN ANALYTICAL CHEMISTRY, AMSTERDAM, THE NETHERLANDS, MAY 18-20, 1988

The conference is organized under the auspices of the KNCV (Royal Netherlands Chemical Society, Analytical Division), VCV (Flemish Chemical Society) and the Chemometrics Society.

The scientific programme will include invited plenary lectures, keynote lectures, and submitted research papers. The following topics will be covered: application and development of formal techniques for design, optimization and evaluation of analytical procedures and results; application of systems theory, operations research, information theory, statistics and other chemometric techniques in analytical chemistry; computerized signal-, image-, and data processing, optimum filtering, parameter estimation, time series analysis, calibration, curve resolution; multivariate data analysis, pattern recognition, cluster analysis, principal components analysis, factor analysis, etc.; expert systems/artificial intelligence, data retrieval/library searching, management systems; mathematical modelling and computer simulation of analytical processes; robotics and automation; and education in chemometrics.

Papers presented at the conference will be refereed for publication in a special issue of *Analytica Chimica Acta*.

For further information, please contact: International Conference on Chemometrics in Analytical Chemistry, CAC-88, Laboratory for Analytical Chemistry, University of Amsterdam, Nieuwe Achtergracht 166, 1018 WV Amsterdam, The Netherlands. Tel.: (020)-5223541 (Dr. Smit).

ISEC '88, INTERNATIONAL SOLVENT EXTRACTION CONFERENCE, MOSCOW, U.S.S.R., JUNE 27-JULY 2, 1988

The International Solvent Extraction Conference is sponsored by the U.S.S.R. Academy of Sciences and the International Committee for Solvent Extraction Chemistry and Technology. Previous conferences have been held at Liege (1980), Denver (1983) and Munich (1986). The conference will

bring together chemists and chemical engineers from research centres, universities and industry who are connected with fundamental and practical aspects of solvent extraction. The conference will be devoted to topics such as chemistry and physical chemistry of extraction, extraction equipment, nuclear chemistry, industrial inorganic and organic processes, and applications to analytical chemistry.

The scientific programme will include plenary lectures submitted by the conference committee and oral research papers. Specialized papers will be represented on poster sessions. Visits to research laboratories of several institutions in Moscow and an attractive social programme are planned. An equipment display is being arranged. Post-conference tours to some institutions and places of interest in Leningrad, Riga and Kiev are also being planned.

The proceedings will be published in advance of the conference and will be distributed to participants on registration. The languages of the conference will be English and Russian. All the foreign guests are requested to present abstracts and papers in English.

Submissions of abstracts (200–300 words) are invited before February 15, 1987 and papers before September 15, 1987. Authors will be notified of provisional acceptance or the rejection of their contributions before June 1, 1987.

For further information, contact: Dr. B. Spivakov, Vernadsky Institute of Geochemistry and Analytical Chemistry of the U.S.S.R., Academy of Sciences, 117975 GSP-1, Kosygin str. 19, Moscow V-334, U.S.S.R.

COMPANA '88, 4th CONFERENCE ON COMPUTER APPLICATION IN ANALYTICAL CHEMISTRY, JENA, G.D.R., SEPTEMBER 5–8, 1988

Compana '88 will be held in Jena, G.D.R. September 5–8, 1988. The topics will be: expert systems; data management systems; novel mathematical methods of data exploration; image analysis in analytical chemistry; analytical computer tomography; multivariate data analysis; optimization; automatic evaluation and interpretation of spectra; computer net works; laboratory automation; process control; environmental control and further aspects of computer application in analytical chemistry.

Proceedings of the symposium will be published in *Chemometrics and Intelligent Laboratory Systems*.

Participants wishing to receive further information or to present a paper (oral or poster presentation) contact: Professor Dr. K. Danzer, c/o Friedrich Schiller University Jena, Department of Chemistry, Steiger 3, DDR-6900 Jena, G.D.R. Tel.: Jena 82 25028, telex: 05886134 uni dd.

5th (MONTREUX) SYMPOSIUM ON LIQUID CHROMATOGRAPHY–MASS SPECTROMETRY, FREIBURG, F.R.G., NOVEMBER 2–4, 1988

The symposium will feature invited and contributed lectures and posters on the latest developments in this field. Fundamental, instrumental and application papers will be considered. Panel discussions will deal with various segments of LC–MS, SFC–MS and MS–MS coupling.

An instrument exhibition is planned and the proceedings of the symposium will be published as a special issue of the *Journal of Chromatography*. The symposium is preceded by a two-day short course.

For further information and for submission of contributions, contact Professor Dr. R.W. Frei, Department of Analytical Chemistry, Free University, De Boelelaan 1083, 1081 HV Amsterdam, The Netherlands. Tel.: (020) 5485379.

CALENDAR OF FORTHCOMING MEETINGS

May 27-29, 1987
Budapest, Hungary

ARCH '87, Automated Reasoning in Chemistry

Contact: ARCH '87 Conference, Mrs. O. Enyedy, Secretary, Institute of Isotopes of the Hungarian Academy of Sciences, P.O. Box 77, H-1525 Budapest, Hungary. (Further details published in Vol. 187.)

June 3-5, 1987
Columbia, SC, U.S.A.

1st International Symposium on the Interface Between Analytical Chemistry and Microbiology

Contact: 1st International Symposium on the Interface Between Analytical Chemistry and Microbiology, P.O. Box 7126, Columbia, SC 29202, U.S.A.

June 12-15, 1987
Lund, Sweden

International Symposium on Titration Techniques

Contact: "Symposium on Titration Techniques", c/o The Swedish Chemical Society, Wallingatan 26 A, S-111 24 Stockholm, Sweden. (Further details published in Vol. 187.)

June 17-19, 1987
Fort Collins, CO,
U.S.A.

Conference on Chemically Modified Surfaces

Contact: W. Collins, Mail Stop C41C00, Dow Corning Corporation, Midland, MI 48686-0994, U.S.A.

June 21-26, 1987
Toronto, Canada

XXV Colloquium Spectroscopium Internationale

Contact: Mr. L. Forget, Executive Secretary CSI XXV, National Research Council of Canada, Ottawa, K1A 0R6 Canada. Tel.: (613) 993-9009, telex: 053-3145. (Further details published in Vol. 172.)

June 28-July 4, 1987
Amsterdam, The
Netherlands

HPLC '87, 11th International Symposium on Column Liquid Chromatography

Contact: Organisatie Bureau Amsterdam bv, Europaplein, 1078 GZ Amsterdam, The Netherlands. Tel.: (31) 20-440807, telex: 13499 raico nl. (Further details published in Vol. 181.)

June 30-July 3, 1987
Lancaster, U.K.

Petro Analysis '87, International Symposium on Advances in the Analysis of Petroleum and its Products

Contact: Petro Analysis '87 Secretariat, c/o Dr. C.J. Peacock, Department of Chemistry, The University, Lancaster LA1 4YA, U.K.

July 13-18, 1987
Sofia, Bulgaria

31st IUPAC Congress

Contact: Dr. R. Vlahov, Institute of Organic Chemistry, Bulgarian Academy of Sciences, 1113 Sofia, Bulgaria. Telex: 22729 ECHBAN BG. (Further details published in Vol. 181.)

Aug. 2-6, 1987
Denver, CO, U.S.A.

29th Rocky Mountain Conference

Contact: Michael Reddy, U.S. Geological Survey, 5293 Ward Road, Arvada, CO 80002, U.S.A. Tel.: (303) 236-3617.

Aug. 24-28, 1987
Vienna, Austria

6th International Conference on Fourier Transform Spectroscopy

Contact: Interconvention, P.O. Box 80, A-1107 Vienna, Austria. Tel.: (222) 57 63 05, 57 62 88, telex: 11 12 10.

Aug. 25-30, 1987
Beijing, China

8th International Conference on Computers in Chemical Research and Education

Contact: Cheng Qian, 345 Lingling Road, 200032 Shanghai, China. Telex: 33354 SIOC CN.

Aug. 30-Sept. 4, 1987
Amsterdam,
The Netherlands

EUCMOS XVIII, 18th European Congress on Molecular Spectroscopy

Contact: EUCMOS XVIII, c/o Municipal Congress Bureau, P.O. Box 2289, 1000 CG Amsterdam, The Netherlands. Tel.: (3120) 552 3459, telex: 16460 anal. chem.

Sept. 7-11, 1987
Paris, France

Euroanalysis VI, European Conference on all Aspects of Analytical Sciences

Contact: G.A.M.S., 88 Boulevard Maiesherbes, 75008 Paris, France. (Further details published in Vol. 181.)

Sept. 8-10, 1987
Berlin, F.R.G.

24th International Symposium on Advances in Chromatography

Contact: Prof. A. Zlatkis, Chemistry Department, University of Houston, Houston, TX 77004, U.S.A.

Sept. 8-11, 1987
Guildford, U.K.

7th International Bioanalytical Forum on Bioanalysis of Drugs and Metabolites, especially Anti-inflammatory and Cardiovascular

Contact: Dr. E. Reid, Guildford Academic Associates, 72 The Chase, Guildford, Surrey GU2 5UL, U.K. Tel.: 0483-65324.

Sept. 14-17, 1987
San Francisco, CA,
U.S.A.

101st AOAC Annual International Meeting and Exposition on Analytical Methodology

Contact: AOAC Office, 1111 N. 19th Street, Suite 210, Arlington, VA 22209, U.S.A. Tel.: (703) 522-3032.

Sept. 14-18, 1987
Maastricht, The
Netherlands

1987 International Society for Electrochemistry Meeting

Contact: Dr. W. Visscher, Laboratory for Electrochemistry, Department of Chemical Technology, Eindhoven University of Technology, P.O. Box 513, 5600 MB Eindhoven, The Netherlands.

Sept. 17-19, 1987
Salvador, Brazil

2nd International Environmental Chemistry Congress in Brazil

Contact: Professor T.M. Tavares, Instituto de Quimica, UFBA, Campus Universitario da Federacao, 40000 Salvador, Bahia, Brazil.

Sept. 23-25, 1987
Barcelona, Spain

International Symposium on Pharmaceutical and Biomedical Analysis

Contact: Dr. Emilio Gelpi, Symposium Secretariat, International Symposium on Pharmaceutical and Biomedical Analysis, Palau de Congressos, Avgda. Reina M^a. Cristina s/n, 08004 Barcelona, Spain. Tel.: (325) 30 00-223 99 40, telex: 53.117 foimb-e.

Sept. 28-30, 1987
Barcelona, Spain

International Symposium on Applied Mass Spectrometry in the Health Sciences

Contact: Dr. Emilio Gelpi, Symposium Secretariat, International Symposium on Applied Mass Spectrometry in the Health Sciences, Palau de Congressos, Dept. de Convencions, Avgda. Reina Maria Cristina s/n, 08004 Barcelona, Spain. Tel.: (325) 30 00-223 99 40, telex: 53.117 foimb-e. (Further details published in Vol. 187.)

- Sept. 28–Oct. 1, 1987
Gaithersburgh, MD,
U.S.A.
- Accuracy in Trace Analysis – Accomplishments, Goals, Challenges**
Contact: Harry Hetz, A309 Chemistry Building, National Bureau of Standards, Gaithersburg, MD 20899, U.S.A. Tel.: (301) 921 2851. (Further details published in Vol. 181.)
- Sept. 28–Oct. 2, 1987
Amsterdam, The
Netherlands
- 2nd Amsterdam HPLC Summercourse**
Contact: Dr. J.C. Kraak, Laboratory for Analytical Chemistry, University of Amsterdam, Nieuwe Achtergracht 166, 1018 WV Amsterdam, The Netherlands.
- Oct. 4–9, 1987
Detroit, MI, U.S.A.
- FACSS XIV, Federation of Analytical Chemistry and Spectroscopy Societies**
Contact: Dr. Steve Swarin, Publicity Chairman, Analytical Chemistry Department, General Motors Research Laboratories, Warren, MI 48090-9055, U.S.A. Tel.: (313) 986-0806.
- Oct. 19–23, 1987
Fellbach, F.R.G.
- ECASIA '87, European Conference on Applications of Surface and Interface Analysis**
Contact: U. Nagorny, Max-Planck-Institut für Metallforschung, Institut für Werkstoffwissenschaften, Seestrasse 92, D-7000 Stuttgart 1, F.R.G.
- Nov. 24–27, 1987
Bordeaux, France
- EXPERMAT '87, An International Symposium on Materials with Exceptional Properties**
Contact: Bordeaux-Congrès, 33300 Bordeaux-Lac, France. Tel.: (33) 56 50 84 49, telex: 540 519 F.
- Nov. 26–28, 1987
Milan, Italy
- ATB '87, Advanced Technology for the Clinical Laboratory and Biotechnology; 3rd European Edition of the Oak Ridge Conference**
Contact: ATB '87 Conference, Via C. Farini 70, 20159 Milan, Italy. Tel.: 39 2 6070074 (international), 02 6070074 (national).
- March 15–18, 1988
Avoriaz, France
- Selenium in Medicine and Biology, 2nd Congress on Trace Elements in Medicine and Biology**
Contact: Congrès Oligoéléments: Sélénium, Laboratoire de Biochimie C, C.H.R.U.G., BP 217 X, 38043 Grenoble Cedex, France.
- March 29–31, 1988
Noordwijkerhout,
The Netherlands
- ANABIOTEC '88, 2nd International Symposium on Analytical Methods and Problems in Biotechnology**
Contact: Symposium Secretariat ANABIOTEC '88, c/o QLT Convention Services, Keizersgracht 792, 1017 EC Amsterdam, The Netherlands. Tel.: (20) 261372, telex 31578 INTER NL attn. QLT.
- April 15–18, 1988
Neuherberg, F.R.G.
- 5th International Workshop on Trace Element Analytical Chemistry in Medicine and Biology**
Contact: Gesellschaft für Strahlen- und Umweltforschung mbH, Institut für Ökologische Chemie, AG "Spurenelementanalytik", Dr. P. Schramel, Ingolstädter Landstrasse 1, D-8042 Neuherberg, F.R.G.
- April 18–21, 1988
Las Vegas, NV, U.S.A.
- Flow Analysis IV, An International Conference on Flow Analysis**
Contact: Dr. Gilbert E. Pacey, Department of Chemistry, Miami University, Oxford, OH 45056, U.S.A. (Further details published in Vol. 181.)

April 27-29, 1988
Basle, Switzerland

4th Symposium on Handling of Environmental and Biological Samples in Chromatography

Contact: Professor R.W. Frei, Department of Analytical Chemistry, Free University, De Boelelaan 1083, 1081 HV Amsterdam, The Netherlands. Tel.: (020) 5485379.

May 18-20, 1988
Amsterdam, The Netherlands

CAC-88, 4th International Conference on Chemometrics in Analytical Chemistry

Contact: CAC-88, Laboratory for Analytical Chemistry, University of Amsterdam, Nieuwe Achtergracht 166, 1018 WV Amsterdam, The Netherlands. Tel.: (020)-5223541 (Dr. Smit).

June 19-24, 1988
Washington, DC, U.S.A.

HPLC '88, 12th International Symposium on Column Liquid Chromatography

Contact: Symposium Manager, Barr Enterprises, P.O. Box 279, Walkersville, MD 21793, U.S.A. Tel.: (301) 898 3772.

June 27-July 2, 1988
Moscow, U.S.S.R.

ISEC '88, International Solvent Extraction Conference

Contact: Dr. B. Spivakov, Vernadsky Institute of Geochemistry and Analytical Chemistry of the U.S.S.R., Academy of Sciences, 117975 GSP-1, Kosygin Str. 19, Moscow V-334, U.S.S.R.

Sept. 5-8, 1988
Jena, G.D.R.

COMPANA '88, 4th Conference on Computer Application in Analytical Chemistry

Contact: Professor Dr. K. Danzer, c/o Friedrich Schiller University Jena, Department of Chemistry, Steiger 3, 6900 Jena, G.D.R. Tel.: Jena 82 25028, telex: 05886134 uni dd.

Nov. 2-4, 1988
Freiburg, G.D.R.

5th (Montreux) Symposium on Liquid Chromatography-Mass Spectroscopy

Contact: Professor R.W. Frei, Department of Analytical Chemistry, De Boelelaan 1083, Vrije Universiteit, 1081 HV Amsterdam, The Netherlands.

July 30-August 5, 1989
Cambridge, U.K.

SAC 89, International Conference on Analytical Chemistry

Contact: SAC 89, Royal Society of Chemistry, Analytical Division, Burlington House, London W1V 0BN, U.K. Tel.: (01) 437-8656.

Aug. 28-Sept. 1, 1989
Wiesbaden, F.R.G.

11th International Symposium on Microchemical Techniques

Contact: Gesellschaft Deutscher Chemiker, Abt. Tagungen, P.O. Box 900440, D-6000 Frankfurt/Main 90, F.R.G. Tel.: (069) 79 17-366/360, telex: 4170497 gdch d.

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