

Coming Events

18th CONFERENCE ON VACUUM MICROBALANCE TECHNIQUES

The 18th Conference on Vacuum Microbalance Techniques will be held on
9–10 April 1981 at

University of Antwerp
R.U.C.A.
Antwerp, Belgium

Organizing Committee:

Prof. Dr. Ir. R. DE BATIST
S.C.K./C.E.N.
B-2400 MOL
and
University of Antwerp
R.U.C.A.
B-2020 Antwerp
Belgium

Dr. A. VAN DEN BOSCH
Materials Science
Department
S.C.K./C.E.N.
B-2400 MOL
Tel. 014/311801 –
316871
Telex 31.922

The subject matter of contributed papers may be theoretical or experimental work involving

- new designs and construction of micro, semimicro and ultra-micro weighing instruments, including modifications to existing commercially available instruments;

- ancillary equipment (temperature control, atmospheric control in balance chambers, etc.);
- applications in all fields of physics and chemistry.

Information: E. ROBENS

Battelle-Institut e.V.
Postfach 900 160
D-6000 Frankfurt am Main
GFR Germany
Tel.: 0611-7908-2415
Telex 04 11966

18th ANNUAL

SHORT SUMMER COURSE IN X-RAY SPECTROMETRY

The 18th annual short course in modern X-ray spectrometry will be offered at the State University of New York at Albany from June 1 to June 12, 1981. The course will be instructional and will develop the basic theory and techniques starting from elementary principles. No previous knowledge or experience is required. The first week will cover basic principles, techniques and practical applications and the second week will continue with further fundamentals and practical applications. Both weeks will illustrate and employ equally the wavelength dispersive and energy dispersive methods. Emphasis in the second week will be placed on advanced principles and techniques, absorption-enhancement corrections by several procedures including mathematical methods, computer calculations and computer automation of modern X-ray spectrometers. Equal time will be devoted to lectures and laboratory-problem solving sessions. Registration may be made for one week, either week, at a registration fee of \$ 650.00 or for the entire two-week session at a registration fee of \$ 1200.00 payable in U. S. dollars drawn on a U. S. bank. For further information and to register please communicate with:

Professor HENRY CHESSIN
State University of New York at Albany
Department of Physics
1400 Washington Avenue
Albany, New York 12222
518/457-8339
457-8308

11th NATAS CONFERENCE —
CALL FOR PAPERS

The 11th Annual North American Thermal Analysis Society Conference will be held at the Hyatt Regency, New Orleans, Louisiana, USA, on October 18th to 22nd, 1981. 200 word abstracts of proposed papers should be sent by *March 13, 1981*, to the respective symposium chairman listed below, or in the case of general topics to the program chairman:

Dr. R. BRUCE PRIME
IBM Corporation
E65-025
5600 Cottle Road
San Jose, CA 95193
(408) 256-6167

The following symposia are planned:

Kinetics of Chemical and Physical Processes (1 day)

Chaired by: Dr. JOSEPH H. FLYNN

National Bureau of Standards
Polymer Science and Standards Division
Washington, DC 20234
(301) 921-3321

This symposium will stress formal quantitative aspects of kinetics — fitting of data by mathematical models, new experimental techniques, computer applications, etc. Papers are solicited on the kinetics of chemical processes such as synthesis curing, oxidation, decomposition, and the kinetics of physical processes including phase changes, nucleation and changes in mechanical properties. Lectures are planned on special topics.

The Glass Transition of Polymers (1/2 day)

Chaired by: Professor BERNHARD WUNDERLICH

Department of Chemistry
Rensselaer Polytechnic Institute
Troy, NY 12181
(518) 270-6762

This symposium will stress applications to real systems. Papers are solicited on the effects of mechanical and thermal history (physical aging, enthalpy relaxation); quantitative aspects of changes in heat capacity, thermal expansion, modulus, and mechanical and electrical relaxation peaks, and comparison of various methods of thermal analysis. A special lecture is planned on thermodynamics and theory of the glass transition.

Crystallization and Melting of Polymers (1/2 day)

Chaired by: Professor BERNHARD WUNDERLICH

Papers are solicited on areas of practical application, such as multiple melting peaks, equilibrium melting, time dependent melting, enthalpy and heat of fusion interpretation, crystallization studies on polymers which are drawn or relaxed or in the mesophase state, evaluation of thermal and mechanical history through irreversible melting, phase diagrams, and comparison of various methods of thermal analysis. A special lecture is planned on the equilibrium and irreversible melting of macromolecules.

Catalyst Performance (1/2 day)

Chaired by: D. PATRICK K. GALLAGHER

Bell Laboratories
Murray Hill, NJ 07974
(201) 582-6787

Papers are solicited on synthesis, characterization, and reactivity of catalysts and their supports as studied by thermoanalytical techniques.

Applications of Thermal Analysis to Energy Research (1 day)

Chaired by: Dr. FERDINAND NOEL

Imperial Oil Enterprises, Ltd
Sarnia, Ontario, Canada
(519) 339-2581

Papers are solicited on applications of thermal methods of analysis to all areas of energy research, including alternative energy sources and the more efficient utilization of energy. Any study of the properties of appropriate materials as affected by temperature may be of interest.

Panel Presentation – Chemical Hazards (1/2 day)

A Panel Presentation and Discussion on Thermal Evaluation of Chemical Hazards is being organized by Dr. James C. Tou of the Dow Chemical Co. Methods to be discussed include the Adiabatic Runaway Device (ARD), Walker's Adiabatic Calorimeter (WAC), Differential Scanning Calorimetry (DSC), the Sensitive Detector for Exothermic Reactions (SEDEX) and Over Adiabatic Calorimetry.

Papers are solicited for the general session in all other areas of thermal analysis. These may include theory, applications and instrumentation for calorimetric, gravimetric, mechanical and dynamic mechanical methods as well as new and other thermoanalytical techniques.

A more detailed manuscript will be required including figures and tables. The deadline for receipt of this manuscript is 6/12/81. A conference proceedings including all papers will be published and made available at the meeting. Publication in this proceedings will not preclude authors from subsequent publication of their material.

The
SEVENTH INTERNATIONAL CONFERENCE ON THERMAL
ANALYSIS

will be held
August 22–28, 1982
at
Queen's University
Kingston, Ontario
Canada

The Conference is sponsored jointly by

North American Thermal Analysis Society
Chemical Institute of Canada

You are warmly invited to participate in this Conference. The First Circular will be distributed early in 1981. Further information can be obtained from

Chairman, Organizing Committee
Seventh ICTA

Dr. D. W. BRAZIER
Dunlop Research Centre
Sheridan Park Research Community
Mississauga, Ontario
Canada L5K 1Z8

Vice-Chairman, Organizing Committee
Seventh ICTA

Dr. H. G. McADIE
Ontario Research Foundation
Sheridan Park Research Community
Mississauga, Ontario
Canada L5K 1B3

President, International Confederation
for Thermal Analysis

Prof. G. LOMBARDI
University of Rome
Via A. Friggeri III
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An Associated Organization of IUPAC