

Events

NATAS 1976

The sixth North American Thermal Analysis Society conference was held at the Princeton University, Princeton (New Jersey, USA) on June 20–23, 1976. The 1976 Mettler award in thermal analysis was presented to

DR. PATRICK K. GALLAGHER

Dr. Gallagher (Bell Laboratories Murray Hill, New Jersey) has been cited for his significant contributions to the development and application of thermal analysis techniques, as well as his promotion of thermal analysis as a scientific discipline. He is a member of the executive committee of the International Confederation for Thermal Analysis, and is the immediate Past President of NATAS. He is presently chairman of the ASTM committee on thermal analysis, serves as Regional Editor (North America) for Thermal Analysis Abstracts and as a member of the Editorial Board of *Thermochimica Acta*. His Mettler Award lecture was: "Some contributions of thermal analysis to the study of catalysis".

The following papers were presented:

Plenary lecture

Environmental applications for thermal analysis

HARRY G. MCADIE

(Ontario Research Foundation, Sheridan Park, Mississauga, Ontario, Canada)

New techniques

Torsional pendulum and torsional braid analysis of polymeric materials

J. K. GILLHAM

(Dept. of Chemical Engineering, Princeton University, Princeton, N. J. 08540)

Recent advances in thermogravimetric analysis of polymer and elastomer formulations

B. CASSEL

(Microanalytical Dept., Perkin-Elmer Corp., Norwalk, Conn. 06856)

A thermal evolution-differential trapping-mass spectrometric technique for polymer characterization

J. CHIU, A. J. BEATTIE

(Plastic Products and Resins Dept., E. I. duPont de Nemours & Co., Experimental Station, Wilmington, Del. 19898)

Direct analysis of polymer pyrolysis using laser microprobe techniques

R. M. LUM

(IC-250, Bell Laboratories, 600 Mountain Avenue, Murray Hill, N. J. 07974)

Techniques for studying the pyrolysis of polymers at very high heating rates

B. MILLER, J. R. MARTIN, R. WANG

(Textile Research Institute, P.O. Box 625, Princeton, N. J. 08540)

*The application of thermal analysis to the study of biological systems**Thermal techniques in biomembrane and lipoprotein research I. Thermal studies in membrane biology — differential scanning calorimetry*

D. L. MELCHIOR, J. M. STEIM

(Dept. of Chemistry, Brown University, Providence, R. I. 02912)

Thermal techniques in biomembrane and lipoprotein research II. Thermal studies in membrane biology — differential scanning dilatometry

F. J. SCAVITTO, J. M. STEIM

(Dept. of Chemistry, Brown University, Providence, R. I. 02912)

Thermal techniques in biomembrane and lipoprotein research III. Thermal studies of lipoprotein structure

M. T. WALSH, J. M. STEIM

(Dept. of Chemistry, Brown University, Providence, R. I. 02912)

Applications of a novel differential scanning calorimeter based on the heat conduction principle to the study of biological systems

D. B. MOUNTCASTLE

(Dept. of Pharmacology, Univ. of Va. School of Medicine, Charlottesville, Va. 22903)

Theoretical and experimental differential scanning calorimetric studies of enzyme-substrate reactions

I. F. WHITING, P. W. CARR

(Dept. of Chemistry, The University of Georgia, Athens, Ga. 30602)

*Polymers and organic materials**Total thermal analysis of polymers*

R. L. BLAINE

(Instrument Products Division, E. I. duPont de Nemours & Co., Quillen Bldg., Concord Plaza, Wilmington, Del. 19898)

Characterization of polymeric electrical insulators by thermal analysis

J. L. HABERFELD, J. F. JOHNSON,* J. TANAKA*

(Uniroyal, Oxford Research Center, Middlebury, Conn. 06749)

* Inst. of Materials Sci. and Dept. of Chem., University of Conn., Storrs, Conn. 06268)

Kinetics of epoxy resin polymerization using differential scanning calorimetry

P. PEYSER, W. D. BASCOM

(Surface Chemistry Branch, Naval Research Laboratory, Washington, D. C. 20375)

*A new series of liquid crystal compounds**I. Thermal properties of n-alkyl-4'-cyanotolanes*

R. J. COX, R. C. GASKILL, J. F. JOHNSON, N. J. CLECAK*

(Institute of Material Science, University of Conn., Storrs, Conn. 06268)

* IBM Research Laboratory, San Jose, Calif. 95193)

*A new series of liquid crystal compounds**II. Thermal properties of 4-alkyl-4'-cyanostilbenes*

R. J. COX, R. C. GASKILL, J. F. JOHNSON, N. J. CLECAK*

(Institute of Materials Science, University of Conn., Storrs, Conn. 06268)

* IBM Research Laboratory, San Jose, Calif. 95193)

*General topics**Effect of thermal transport mechanisms on the thermal decomposition of calcium carbonate*

P. K. GALLAGHER, D. W. JOHNSON, JR., K. M. CALDWELL*

(Bell Laboratories, Murray Hill, N. J. 07974)

* Dept. of Ceramic Engineering, University of Illinois, Urbana, Ill.)

Phase diagram for the ternary system LiCl-CaCl₂-CaCrO₄

R. P. CLARK

(Division 2523, Sandia Laboratories, Albuquerque, New Mexico 87115)

Thermal characteristics of desensitizing waxes for use with explosives

J. HARRIS

(Bldg. 355, Picatinny Arsenal, Dover, N. J. 07801)

Effect of different carbons on ignition temperature and activation energy of black powder

A. D. KIRSHENBAUM

(Bldg. 404, Ballistic & Combustion Research Branch, Picatinny Arsenal, Dover, N. J. 07801)

High temperature thermal analysis

K. F. BAKER

(Instruments Products Division, E. I. duPont de Nemours & Co., Quillen Bldg., Concord Plaza, Wilmington, Del. 19398)

JOINT SYMPOSIUM WITH ASTM COMMITTEE E-37 ON THERMOANALYTICAL TEST METHODS*Some applications of thermal analysis to or replacement for ASTM testing standards*

W. P. BRENNAN

(Instrument Division, Perkin-Elmer Corp., Norwalk, Conn. 06856)

*Thermoanalytical methods in vulcanizate analysis**I. DSC and the heat of sulfur vulcanization*

D. W. BRAZIER

(Dunlop Research Center, Mississauga, Ontario Canada L5K 1Z8)

*Thermoanalytical methods in vulcanizate analysis**II. Derivative thermogravimetric analysis*

D. W. BRAZIER

(Dunlop Research Center, Mississauga, Ontario Canada L5K 1Z8)

A standardization procedure for purity determination by differential scanning calorimetry

A. P. GRAY

(Instrument Division, Perkin-Elmer Corp., Norwalk, Conn. 06856)