

Events

5TH INTERNATIONAL SYMPOSIUM ON ANALYTICAL CALORIMETRY DIVISION OF ANALYTICAL CHEMISTRY National ACS Meeting, Seattle, Washington, March 21–22, 1983

The following papers were presented:

Introductory remarks

J. F. Johnson, P. S. Gill

Differential scanning calorimetry: simultaneous temperature and calorimetric calibration

W. Eysel

Nonequilibrium thermodynamics and modern dynamic thermal analysis techniques

P. H. Lindenmeyer

Multiple sample differential scanning calorimetry

R. C. Johnson

Characterization of coal liquefaction residues by thermal methods of analysis

C. M. Earnest

Reversibility and capacity of different energy storage reactions by calorimetry

P. LeParlouer

Calorimetric response of fossil fuel systems: prospects and problems

K. Rajeshwar

Use of thermal analyses for calorific value determination of coal liquefaction bottoms

C. G. Lington, F. F. Tao

Carbohydrate pyrolysis: correlation of TG and DSC data

A. E. Pavlath, K. S. Gregorski

Some uses of differential scanning calorimetry in biomembrane research

D. L. Melchior

The melting temperature of polymers: theoretical and experimental

L. Mandelkern, G. M. Stack, P. J. M. Mathieu

Significance of structural parameters on the Gibbs–DiMarzio theory of the glass transition

A. R. Greenberg, R. P. Kusy

A combined TG–GC–MS system for materials characterization

Jen Chiu

Thermal analysis of acrylamide-based polymers

J. J. Maurer, D. N. Schulz, D. B. Siano, J. Bock

The analysis of water in treed polyethylene films

R. A. Weiss, S. H. Shaw, M. T. Shaw

Acrylonitrile butadiene/ethylene propylene diene: effects of formulation changes on specific heat

C. L. Loechelt, V. L. Morris

Pyrolytic study of a highly cross-linked polymer

J. C. Tou

On the glass transition of polyacrylamide

J. W. Bullock, E. P. Tam, H. K. Yuen

The effect of sample temperature gradients on DSC thermograms at the glass transition temperature

E. Donoghue, T. S. Ellis, F. F. Karasz

Application of combined thermogravimetry atmospheric pressure chemical ionization mass spectrometry to copolymer analysis

S. M. Dyzel

Influence of a magnet coating deposition process on the structure and properties of PET films

W. C. Crowe, J. C. Seferis, R. H. Warbington

Improved vibration damping polymers through dynamic mechanical analysis

R. P. Chartoff, I. O. Salyer, J. M. Butler

Dynamic mechanical analysis application to dynamic thermomechanometry

T. Murayama

Applications of differential rheometry

P. H. Foss, M. T. Shaw

Semi-automated measurement of composites flexural stress relaxation

P. S. Gill, J. D. Lear

Computer automation of the dynamic mechanical analyzer and its application to cure kinetic studies and dynamic mechanical property analysis of organic coatings

M. E. Koehler, A. F. Kah, C. M. Neag, T. F. Niemann, F. B. Malihi, T. Provder

Dynamic mechanical properties of melt and solution processed high performance epoxy matrices

M. Ibrahim, J. C. Seferis

Dynamic mechanic behavior of fibers of copolymers of hydroxy benzoic acid and hydroxy naphthoic acid

M. Jaffe, H. N. Yoon

A new approach for determining mechanical properties of thermo-set resins

C. Gramelt

EVENTS

Study on adhesives performance by dynamic mechanical techniques

L. Woo

Curie points of ICTA certified reference materials for thermogravimetry

A. Alamolhoda, P. D. Garn

Heating rate dependence of thermosetting resin kinetics evaluated by DSC

E. Stark, J. C. Seferis

Using thermal analysis to study the cure of addition type thermosetting resins

R. P. Chartoff, J. M. Butler, D. E. Miller, D. R. Askins

Automated DSC and TGA techniques for the rapid determination and utilization of kinetic information

P. S. Gill, P. F. Levy

Cure and reaction kinetics characterization of model and organic coatings systems by FTIR and thermal-mechanical analysis

T. Provder, C. Kuo, C. M. Neag, G. Carlson, R. M. Holsworth

Integral-differential relationships in thermal analysis

J. P. Elder

Defining B-stage and total cure for a DICY based epoxy resin by DSC

B. K. Appelt, P. Cook

Equilibrium modulus test for curability of urethane acrylate UV-coating

M. S. Cogan, R. P. DeFabritis, N. Levy, C. R. Taylor

Coupling of DSC and DMA experiments for probing processing-structure-property relations of catalyst modified high performance epoxy resin matrices

T. E. Munns, J. C. Seferis

Power scanning calorimetry (PSC): direct determination of the rate of the heat production and heat of reaction

J. Hakl, C. Hatz

Thermal analysis of some "siamese twin" dicarboxylic acids

A. C. Griffin, S. Gorman

Publication of proceedings:

Volume 5, Analytical Calorimetry,

Plenum Press, 1983