

THIRD ANNUAL NATAS MEETING

The third annual meeting of the North American Thermal Analysis Society (NATAS) was held in Waco, Texas, U. S. A., on February 7-8, 1972. The technical papers presented were as follows:

B. Wunderlich, Melting point variations in linear high polymers (Plenary Lecture)	175
F. Paulik and J. Paulik, Kinetic studies of thermal decomposition reactions under quasi-isothermal and quasi-isobaric conditions by means of the derivatograph	189
H. S. Yanai, W. J. Freund, and O. L. Carter, Determination of the deflection temperature under load, VICAT softening temperature, and Clash-Berg T_F of plastics by a new method	199
R. W. Farmer, Thermogravimetry of thermally stable aromatic and heterocyclic polymers	203
R. W. Farmer, Phenolic resin char-formation during hyperthermal ablation .	223
A. D. Kirshenbaum and A. J. Beardell, Thermal analysis of the reaction of molybdenum trioxide with various metals	239
C. B. Concilio and B. J. Jahnke, The characterization by differential thermal analysis of organic polyelectrolytes and flocculating agents	249
G. Krapf, J. L. Lutz, L. M. Melnick, and W. R. Bandi, The DTA-EGA study of the chemical isolation of Fe_3C , amorphous carbon, and graphite from steel and cast iron	257
R. G. Ferrillo and A. Wilson, Differential scanning calorimetry of hazardous materials: 4-nitro- <i>m</i> -cresol and <i>p</i> -nitrophenol	273
P. K. Gallagher and D. W. Johnson, Jr., Kinetics of the formation of $BaSnO_3$ from barium carbonate and tin(IV) oxide or oxalate precursors	283
E. L. Simmons and W. W. Wendlandt, Deaquation kinetics at the boiling point of water: $BaCl_2 \cdot 2H_2O$ and $BaBr_2 \cdot 2H_2O$	291
T. P. Herbell, Thermogravimetry system designed for use in dispersion strengthening studies	295
C. S. Gorzynski, Jr., M. McCarty, and J. N. Maycock, Application of thermal analysis methods to the study of unstable and metastable materials	309
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R. L. Bohon and W. T. Conway, DTA studies on the glycerol–water system	321
V. S. Ramachandran, Elucidation of the role of chemical admixtures in hydrating cements by DTA technique	343
R. W. Mar, High-temperature thermal analysis of high boron alloys using automatic optical pyrometry	367
F. Noel, Thermal analysis of lubricating oils	377
D. L. Jernigan and J. L. McAtee, Jr., The study of carbon-coated grids at elevated temperatures by electron microscopy	393
R. T. Marano, J. L. McAtee, Jr., K. P. Wittstruck, and A. A. Marano, Differential thermal analysis of kidney and bladder stones	405
M. I. Knudson, Jr. and J. L. McAtee, Jr., A study of thermal decomposition of tris(ethylenediamine)cobalt(III) chloride: dilution effects	411
R. T. Marano and J. L. McAtee, Jr., Differential thermal analysis of ammonium tetrafluoroborate and hexamminonickel- and tetramminozinc-tetrafluoroborate	421
G. W. Miller and R. V. Fitzsimmons, Thermal analyses of polymers. XI. Correlation among several modes of thermal analysis for the transitional behavior of block copolymers	425

The following papers were also presented but were not submitted for publication in this issue.

R. K. Ware (Owens–Illinois, Inc., Toledo, Ohio), Prediction of crystallization temperatures of crystallizable glasses.

G. W. Miller, T. L. Maurer (Owens–Illinois, Inc., Toledo, Ohio), and J. F. Johnson (Materials Science Institute, University of Connecticut, Storrs, Connecticut), Thermal analysis of polymers. XII. A survey of the development and application of thermal depolarization analysis.

E. L. Charsley, J. P. Redfern (Stanton Redcroft Ltd., London S. W. 1), and M. L. Aspinal (A. E. I. Scientific Apparatus Ltd., Manchester, England), Simultaneous DTA–mass spectrometry.

Everett K. Gibson (NASA, Manned Space Center, Houston, Texas), Thermal analysis–evolved gas analysis studies of geochemical samples via interfaced thermoanalyzer mass spectrometer computer system.

E. M. Bollin (Eastman Kodak Company, Rochester, New York), A modified thermal head for pan type sample containers.

- E. M. Barrall, II, Mary Ann Flandera, and A. J. Logan (IBM Research Laboratory, San Jose, California), A thermodynamic study of the cross-linking of methyl silicone rubber.
- W. T. Humphries, D. Miller, and R. H. Wildnauei (Skin Biology Research, Johnson and Johnson, New Brunswick, New Jersey), Thermal analysis of natural and chemically modified human hair.
- G. Shelhamer and U. V. Rao (Matthey Bishop, Inc., Malvern, Pennsylvania), A simple and rapid method for testing the efficiency of supported catalysts using DTA.
- C. W. Bale, F. Ajersch, and J. M. Toquri (Department of Metallurgy and Materials Science, University of Toronto, Toronto, Canada), A chemical control technique to determine the thermochemical properties of liquid metal–non-metal systems.