Events

THERMAL ANALYSES METHODS SYMPOSIUM, CLEVELAND, USA

A Symposium on Thermal Methods of Analysis was held in conjunction with the Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, Cleveland, Ohio, Tuesday, March 7, 1972.

The following lectures were delivered dealing with thermal analysis:

Pyrolysis EGA session

Introduction
H. FRIEDMANN
(GE Environmental Science Laboratory, Valley Forge Space Center, Philadelphia, Pennsylvania)

Thermal Analysis — Gas Release Studies of Selected Samples via Interfaced Thermoanalyzer-Mass Spectrometer-Computer System
E. K. GIBSON, JR.
(Code TN7, Geochemistry, NASA Manned Spacecraft Center, Houston, Texas)

Application of the Pyrochrom TM for on-Line Elemental Analysis of Gas-Liquid Chomatographic Effluents
S. A. LIEBMAN, D. H. AHLSTROM, and T. C. CREIGHTON, and G. D. PRUDER* and E. J. LEVY*
(Armstrong Cork Company, Lancaster, Pennsylvania
*Chemical Data Systems, Inc., Oxford, Pennsylvania)

Thermal Reactions by Automated Mass Spectrometric Thermal Analysis
H. G. LANGER
(Dow Chemical Co., Wayland, Massachusetts)

Studies of Thermolytic Dissociation Processes by Means of Combined Pyrolysis Gas Chromatography Mass Spectrometry
C. MERRITT, JR., C. DI. PIETRO, W. A. SASSAMAN, and M. L. BAZINET
(U. S. Army Natick Laboratories, Natick, Massachusetts)

Scanning microcalorimetry – DTA session

Introductory Speech
B. WUNDERLICH
(Department of Chemistry, Rensselaer Polytechnic Institute, Troy, New York)

Thermal Analysis of Protein Behaviour
F. E. KARASZ and R. P. MCKNIGHT
(Polymer Science and Engineering, University of Massachusetts, Amherst, Massachusetts)

Precise Determination of Melting and Boiling Points by Differential Thermal Analysis and Differential Scanning Calorimetry
E. M. BARRALL II
(IBM Research Laboratory, San Jose, California)

Determination of Phase Diagrams by Differential Scanning Calorimetry
A. V. GALANTI and C. W. GRIFFITH* and R. S. POTER*
(Pennsylvania State University, Hazelton, Pennsylvania
*Polymer Science and Engineering, University of Massachusetts, Amherst, Massachusetts)

SYMPOSIUM ON THERMAL ANALYSIS, HELSINKI, FINLAND

The Scandinavian Committe for Thermal Analysis held its 1st symposium at The Finnish Pulp and Paper Research Institute, Helsinki, Finland on 15–16 March 1972.

The following lectures were delivered:

Plenary lecture

Thermoanalytical techniques and their use in quantitative studies
R. C. MACKENZIE
(The Macaulay Institute for Soil Research, Aberdeen, UK)

DTA

Heat transfer problems, instrumental parameters and computerized analysis in DTA
G. BERGGREN
(The Atomic Energy Research Centre, Sweden)

Application of DTA-methods for investigation of organic compounds and polymers
H. LETH PEDERSEN
(A/S Nordiske Kabel- og Traadfabriker, Copenhagen, Denmark)

The influence of small cerium additions on the freezing and melting interval of stainless steel
R. OSKARSSON
(Sandvikens Jernverks AB, The Coromant Research Centre, Stockholm, Sweden)

DSC

Determination of activation energies for Arrhenius-processes from base-lineshift (base-line anormalities)
J. G. RASMUSSEN
(Technical University of Denmark, Copenhagen, Denmark)

Differential scanning calorimetry of chlorinated polyethylenes
V. ERÄ
(University of Helsinki, Finland)

Differential scanning calorimetry of pure crystals of some polyphenylene oxides
A. SAVOLAINEN
(University of Helsinki, Helsinki, Finland)

TG

Thermogravimetric analysis for the determination of the dehydration of gypsum when grinding and storing the cement
F. WALTONEN
(Cement- och Betonglaboratoriet, Malmö, Sweden)

Thermobalance investigations of the system Pb—S—O in equilibrium with O_2(g)
L. WITTUNG
(University of Umeå, Umeå, Sweden)

Determination of thermodynamic properties of oxides by high-temperature thermogravimetry
O TOFT SØRENSEN
(The Atomic Energy Research Centre, Nyköping, Sweden)

Isothermal gravimetric methods in some gas-oxide reactions
J. JUUSELA
(Outokumpu Oy, Björneborg, Finland)

Calorimetry

An adiabatic calorimeter for the investigation of the dehydration process of cement mortar
N. ASCHAN
(The State Institute for Technical Research, Otaniemi, Finland)

Isothermal differential calorimetry as a means to measure the degradation rate of materials in very slow processes
P. PALONIEMI
(Oy Strömberg Ab, Helsinki, Finland)

Decrepitation analysis

Instrumentation for decrepitation investigations of quartzites
K. LØNVIK
(The Technical University of Norway, Trondheim, Norway)

Advances in instrumentation

Recent developments in thermal analysis techniques
A. ROBSON
(DuPont Company Ltd., Hitchin Herts, UK)

A new quantitative DTA-system and its application to a new method of purity measurement
SCHLICHENMAIER
(Mettler AG, Zürich, Switzerland)

An apparatus for the simultaneous measurement of ETA, DTA and TG/DTG
W. D. EMMERICH
(Netsch-Berätebau, Selb, Bayern, GFR)