

★ フランス熱測定および熱分析会議

(journées de calorimétrie et d'analyse thermique)
AFCAT (フランス熱測定および熱分析学会) 主催
1976年5月13~14日
Faculté des Sciences et des Techniques-Route de Gray
(Besancon, France) にて

- 主 題: (1) 水溶液および有機性溶液における反応系
カロリメトリー
(2) 吸着エネルギーの直接および間接測定
(3) カロリメトリーおよび示差熱分析の情報
交換

連絡先: J. C. Reggiani, Secretariat-JCAT
Laboratoire de Chimie-Physique
Faculté des Sciences
25030-Besancon-Cedex, France

★ 熱物理的性質に関する第5回ヨーロッパ会議

(5th European Conference on Thermophysical
Properties)
1976年5月18~21日, Moscowにて行われる予定

連絡先: Dr. K. A. Yakimovich, Conference Secretary,
Institute for High Temperatures,
Korowinskoye Rd., 127412, Moscow I-412,
U.S.S.R.

★ 第11回熱物理的性質AIAA会議

(11th AIAA Thermophysics Conference)
1976年7月14~16日, San Diegoにて行われる予定
連絡先: Mr. Edward E. Luedke, TRW Systems Group,
Bldg. R1, Rm. 2028, One Space Park,
Redondo Beach, California 90278, U.S.A.

★ 第1回熱分析に関するヨーロッパシンポジウム

(1st European Symposium on Thermal Analysis)
1976年9月20~21日, Salford大学 英国Salford に
て 詳細は本誌2, 32 1975 参照のこと

★ 30th Annual Calorimetry Conference

プログラム

Battelle Seattle Research Center
Seattle, Washington, July 16~19, 1975

SESSION I - PLENARY SESSION

OFFICIAL OPENING OF CALORIMETRY CONFERENCE,
H. WATTS, Chairman of Calorimetry Conference
1975 HUFFMAN AWARDEE - CECIL E. VANDERZEE,
University of Nebraska, Lincoln, Nebraska 68508.
HUFFMAN LECTURE TOPIC: SOLUTION REACTION
THERMOCHEMISTRY--REFERENCES STATES IN THE
BRINY DEEP

SYMPOSIUM: THERMOCHEMISTRY AND THERMODYNAMICS
OF BIOLOGICAL SYSTEMS

OPENING REMARKS: R. L. BILTONEN, Symposium Chairman

PLENARY LECTURE: THE CALORIMETRIC INVESTIGATION
OF BIOLOGICAL SYSTEMS, S. J. GILL, University of
Colorado, Boulder, Colorado 80302

SESSION IIA - SYMPOSIUM:

THERMOCHEMISTRY AND THERMODYNAMICS OF BIOLOGICAL SYSTEMS
Thermodynamic Studies of the Lactic Dehydrogenase
Reaction, H.-J. Hinz, University of Regensburg,
Universitätsstrasse 31, 84 Regensburg, Germany

Differential Scanning Calorimetry in Biochemistry,
J. Sturtevant, Yale University, New Haven, Conn. 06520

A Calorimetric Study of Sickle Cell Hemoglobin
Gelation, P. D. Ross, National Institutes of Health,
Bethesda, Md. 20014

SESSION IIB - ENTHALPY DETERMINATIONS

Enthalpies of Solution and Partial Molar Heat
Capacities of Some Hydrocarbons in Water,
S. J. Gill, N. P. Nichols, and I. Wade,
Thermochemistry Laboratory, Chemical Center,
University of Lund, S-220 07 Lund, Sweden

The Enthalpy of Solution of Gaseous Carbon Dioxide
in Sodium Hydroxide, and the Enthalpy of Formation
of Aqueous Carbonate and Bicarbonate Ions,
C. E. Vanderzee and R. L. Berg, Department of
Chemistry, The University of Nebraska, Lincoln,
Nebraska 68608

Cesium Nitrate: Standard Enthalpy of Solution and
Formation and the Standard Entropy at 298.15 K,
J. Boerio and P. A. G. O'Hare, Argonne National
Laboratory, 9700 S. Cass Avenue, Argonne, Illinois
60439

Solution Calorimetric Studies of Cesium Chromate
and Dichromate, P. A. G. O'Hare and J. Boerio,
Argonne National Laboratory, 9700 S. Cass Avenue,
Argonne, Illinois 60439

The Enthalpy Changes for the Couples Fe(II)-Fe(III),
Ce(III)-Ce(IV), and U(IV)-U(VI), G. C. Fitzgibbon,
C. E. Holley, Jr., and T. W. Newton, Los Alamos
Scientific Laboratory, University of California,
P. O. Box 1663, Los Alamos, New Mexico 87544

Stored Strain Energy From Pelletizing Process,
S.-S. Chang, Institute for Materials Research,
National Bureau of Standards, Washington, D.C. 20234

SESSION IIIA - BIOLOGICAL SYSTEMS - I

Calorimetric Studies on the Binding of ADP to Heavy
Meromyosin, C. C. Goodno and C. A. Swenson, Depart-
ment of Biochemistry, University of Iowa, Iowa City,
Iowa 52242

Direct Calorimetric Measurement of the Binding of Falvin Mononucleotide to *Beneckea Harveyi* Luciferase, N. R. Langerman, Utah State University, Logan, Utah 84322

Calorimetric Study of D-Amino Acid Oxidase, P. L. Mateo and J. M. Sturtevant, Yale University, 225 Prospect Street, New Haven, Connecticut 06520

Iron Spin State Effects on the Quaternary Structure of Tetrameric Ferrous and Ferric Hemoglobins, D. P. Nelson, D. S. Zwakman, and L. A. Kiesow, Department of Experimental Medicine, Naval Medical Research Institute, Bethesda, Maryland 20014

A Thermodynamic Approach to the Evaluation of Structural Parameters in Immunoglobulins, B. G. Ancher and H. Krakauer, Program in Biochemistry and Biophysics and Department of Veterinary Pathology, Washington State University, Pullman, Washington 99163

Distribution of Hapten Binding Enthalpies in Conventionally-Raised Antibody Populations, B. G. Barisac, M. P. M. Johnston, I. Pecht, and J. M. Sturtevant, Department of Chemistry, University of Colorado, Boulder, Colorado 80302

SESSION IIIB - COMBUSTION CALORIMETRY AND VAPORIZATION

The Enthalpies of Formation of Five Isomeric Heptenes, W. D. Good, Bartlesville Energy Research Center, Energy Research and Development Administration, Bartlesville, Oklahoma 74003

Thermochemistry of Five Azo Compounds, P. S. Engel, R. A. McLaugh, M. Manason, S. Sumner, J. W. Timberlake, and F. D. Roscini, Department of Chemistry, Rice University, Houston, Texas 77001

Enthalpies of Vaporization, Their Accuracy and the Ultimate Choice of Standard State for Organic Compounds, S. Sumner, Thermochemistry Laboratory, Chemical Center, University of Lund, S-220 07 Lund, Sweden

Vapour Pressure, Enthalpy of Sublimation and Enthalpy of Vaporisation of Naphthalene, D. Ambrose, I. J. Lawrence, and C. H. S. Sprake, National Physical Laboratory, Division of Chemical Standards, Teddington, Middlesex, TW11 0LW, England

SESSION IVA - BIOLOGICAL SYSTEMS - II

A Calorimetric Investigation of Lipid-Protein Interactions, J. M. Sturtevant and S. Nabrey, Department of Chemistry, Yale University, 225 Prospect Street, New Haven, Connecticut 06520

Calorimetry of the Unfolding of *E. coli* Ribosome, K.-P. Wong, J. M. Dunn, and J. S. Binford, Jr., Department of Chemistry, University of South Florida, Tampa, Florida 33620

Microcalorimetric Determination of Glucose in Standard Samples of Serum, R. N. Goldberg, National Bureau of Standards, Washington, D.C. 20234

Calorimetric Measurement of IGG, IGM and IGA Serum Levels, D. J. Eatough and S. J. Rehfeld, Center for Thermochemical Studies, Brigham Young University, Provo, Utah 84602

A Calorimetric Procedure for Rapid Screening of Anti-Tumor Agents, T. E. Jensen, S. J. Jacobsen, J. H. Mangum, and D. J. Eatough, Brigham Young University, 149 FB, Provo, Utah 84602

Recent Calorimetric Studies on Human Red Blood Cells, M. Monti and I. Wade, Thermochemistry Laboratory, Chemical Center, Lund University, S-220 07 Lund, Sweden

SESSION IVB -

THERMODYNAMIC PROPERTIES BY CALORIMETRY AND OTHER STRATEGIES

Apparent Molar Heat Capacities and Volumes of Some Simple Electrolytes in Methanol at 25°C, A. J. Pasator and C. M. Criss, Department of Chemistry, University of Miami, Coral Gables, Florida 33124

Effects of Alkyl Chain Length on the Thermodynamics of Proton Ionization from Arsonic and Arsinic Acids, E. A. Lewis, L. D. Hansen, E. J. Baga, and D. J. Femer, The University of Texas Health Science Center, San Antonio, Texas 78284

Correlation of Calorimetric and Structural Data for Some Metal-Cyclic Polyether and Cyclic Thiopolyether Complexes, R. M. Isatt, N. K. Dalley, R. Terry, T. Jensen, A. Avoules, L. D. Hansen, and J. J. Christensen, Center for Thermochemical Studies and Departments of Chemistry and Chemical Engineering, Brigham Young University, Provo, Utah 84602

A Proposed Method for Determination of the Enthalpy of Fusion from Freezing Point Curves, H. Watts, Dow Chemical of Canada Ltd., P. O. Box 1012, Sarnia, Ontario N7T 7K7, Canada

Basicities of Alkyl Amines in Aqueous Solution: A Calorimetric Study of a Classical Problem, G. Olofsson, Thermochemistry Laboratory, Chemical Center, POB 740, S-22007 Lund, Sweden

The Calorimetric Determination of the Heats of Salts Extraction, K. S. Krasnov, Ivanovo Chemical Technology Institute, Ivanovo, USSR

SESSION V - PLENARY SESSION -

SYMPOSIUM: THERMODYNAMICS OF MATERIALS AT HIGH TEMPERATURE

OPENING REMARKS: P. A. G. O'HARE, Symposium Chairman

PLENARY LECTURE: THE ROLE OF CALORIMETRY FOR HIGH TEMPERATURE CHEMISTRY, L. BREWER, Lawrence Berkeley Laboratory, University of California, Berkeley, California 94720

INVITED PAPER: REACTION CALORIMETRY AT HIGH TEMPERATURES, O. J. KLEPPA, University of Chicago, 5640 S. Ellis Ave., Chicago, Illinois 60637

SESSION VIA - SYMPOSIUM:

THERMODYNAMICS OF MATERIALS AT HIGH TEMPERATURE (continued)

Thermochemistry of the Erbium Borides, R. G. Bedford and R. W. Mar, University of California, Lawrence Livermore Laboratory, P. O. Box 808, Livermore, California 94550

High Temperature Enthalpies of α - and β -Na₂UO₄ by Drop Calorimetry. Enthalpies of the α - β Transition at 298.15 and 1193K, D. R. Fredrickeon and P. A. G. O'Hare, Argonne National Laboratory, 9700 S. Cass Avenue, Argonne, Illinois 60439

Determination of the Enthalpy and Specific Heat of a Nickel-Cobalt Steel to 2000 K, H. P. Stephens, Sandia Laboratories, Albuquerque, New Mexico 87115

The Heat Capacity of Plastically Deformed Austenitic Stainless Steels from 300 to 1300 K, R. K. Stout, C. R. Brooke, and E. E. Stansbury, Chemical and Metallurgical Engineering Department, The University of Tennessee, Knoxville, Tennessee 37916

Activity Coefficients of Titanium in a Nickel- and Iron-Base Alloy, J. M. Leitner and D. N. Braski, Metals and Ceramics Division, Oak Ridge National Laboratory, Oak Ridge, Tennessee 37830

SESSION VIB - BIOLOGICAL SYSTEMS - III

Partial Molar Volumes and Heat Capacities of Aqueous Organic Solutes: Alcohols, Amino Acids, Peptides and Proteins, C. Jolicœur, G. Laoroix, J. Boileau, E. de Medicis, and R. Lumry, Departments of Chemistry and Biochemistry, Université de Sherbrooke, Sherbrooke, Quebec, Canada

Heats of Solution by Flow Microcalorimetry, S. J. Gill and M. Seibold, University of Colorado, Boulder, Colorado 80302

Calorimetric Analysis of 3-(2-Furyl) Acryloylimidazole Hydrolysis by α -Chymotrypsin, J. L. Slightom and D. W. Bolen, Department of Chemistry and Biochemistry, Southern Illinois University, Carbondale, Illinois 62901

Acid-Base Reactions in Concentrated Neutral Salt, N. R. Langerman, Utah State University, Logan, Utah 84322

Thermodynamics of the L-glutamate Dehydrogenase Catalytic Reaction, S. Subramanian, Naval Medical Research Institute, Bethesda, Maryland 20014

How Efficient is Biological Nitrogen Reduction? A Thermochemical Study of Nitrogenase, G. D. Watt, C. F. Kettering, Research Laboratory, Yellow Springs, Ohio 45387

SESSION VIIA - SYMPOSIUM:

THERMODYNAMICS OF MATERIALS AT HIGH TEMPERATURE (concluded)

INVITED PAPER: HIGH TEMPERATURE STUDIES BY LEVITATION CALORIMETRY, J. L. MARGRAVE and D. W. Bonnell, Department of Chemistry, Rice University, Houston, Texas 77001

Some Measurements of the Heats of Formation of Transition Metal Alloy Phases by Liquid Metal Calorimetry, J. N. Pratt and A. W. Bryant, Department of Physical Metallurgy and Science of Materials, University of Birmingham, P. O. Box 363, Birmingham, B15 2TT, England

The Heat Capacity of Tin from 300 to 1000 K, J. Peng, E. E. Stansbury, and C. R. Brooks, Chemical and Metallurgical Engineering Department, The University of Tennessee, Knoxville, Tennessee 37918

SESSION VIIB - CALORIMETERS - DESIGN AND CONSTRUCTION

A New Isothermal Plate Calorimeter. 1. Theory and Design, L. D. Hansen, R. M. Hart, D. J. Batough, R. M. Izatt, and J. J. Christensen, 149 FB, Brigham Young University, Provo, Utah 84602

A New Isothermal Plate Calorimeter. 2. Testing and Operation as a High Pressure Heat of Mixing Calorimeter, J. J. Christensen, R. Hart, R. M. Izatt, D. J. Batough, and L. D. Hansen, 149 FB, Brigham Young University, Provo, Utah 84602

Thermoelectric Design Considerations in Biological Microcalorimeters, R. R. Gawryl and R. Lovrien, Biochemistry Department, University of Minnesota, 140 Gortner Laboratory, St. Paul, Minnesota 55108

The Construction of and Experiences with an Isothermal Calorimeter, L. Hub, Sandos AG, Lichtstrasse 35, 4002 Baeel, Switzerland

SESSION VIII - PLENARY SESSION -

SYMPOSIUM: THERMODYNAMICS OF MIXTURES

OPENING REMARKS: C. E. VANDERZEE, Symposium Chairman

PLENARY LECTURE: FLUID MIXTURES--WHERE ARE WE, AND WHERE ARE WE TRYING TO GO?, M. MCGLASHAN, University College, London, England (Stand-in, H. WATTS)

INVITED PAPER: APPLICATIONS OF SOLUTION CALORIMETRY TO INVESTIGATION OF THERMODYNAMIC PROPERTIES OF COMPOUNDS AND IONS OF CHROMIUM, MOLYBDENUM, AND TUNGSTEN, I. Bellien and L. G. HEPLER, University of Lethbridge, 4401 University Drive, Lethbridge, Alberta, T1K 3M4, Canada

A Calorimetric Study of Hydrogen/Deuterium Exchange Between Methanol and Water, C. L. Berstrand and T. E. Burchfield, Department of Chemistry, University of Missouri, Rolla, Missouri 65401

SESSION IXA -

SYMPOSIUM: THERMODYNAMICS OF MIXTURES (continued)

The Heat Capacity Change for Dissolution of Several Amino Acids in Water and the Hydrophobic Hydration, B. Chavla and J. C. Ahluwalia, Department of Chemistry, Indian Institute of Technology, Kanpur, 208016, India

Enthalpies of Solution of Trialkyl Phosphates in Mixtures of N,N-Dimethylformamide and Water. Model Calculations of the Hydrophobic Effect, S. Lindenbaum, D. Stevenson, and J. H. Rytting, School of Pharmacy, 2065 Avenue "A", Campus West, University of Kansas, Lawrence, Kansas 66044

Heats of Dilution of Trialkyl Phosphates in Iso-Octane, J. H. Rytting, A. Goldkamp, and S. Lindenbaum, School of Pharmacy, 2065 Avenue "A", Campus West, University of Kansas, Lawrence, Kansas 66044

Experimental Results for the Heat Capacity and the Joule-Thomson Coefficient of Ethane and an Equimolar Mixture of Ethane and Propylene, K. Bier, J. Kunze, and C. Mauner, Institut für Technische Thermodynamik und Kältetechnik der Universität Karlsruhe (TH), D-76 Karlsruhe, Richard-Wille-Gatter-Allee 2, Germany

Solvent Interaction in Non-aqueous Media--Heats of Sublimation and Solution of Metal Complexes, F. J. Irving, B. H. Naghibi, and R. A. Schulz, University of Surrey, Guildford, Surrey, England

SESSIION IXB - LOW TEMPERATURE CALORIMETRY

Low-temperature Heat Capacities and Entropies of $KAlSi_3O_8$, $NaAlSi_3O_8$, and $CaAl_2Si_2O_8$ Glasses and of Anorthite: Zero Point Entropies of the Feldspar Glasses, R. A. Robie, B. S. Hemingway, and W. B. Wilson, U. S. Geological Survey, Reston, Virginia 22092

Calorimetric Study of Lattice Transformations in $RbCaF_3$, J. C. Ho and W. F. Unruh, Department of Physics, Wichita State University, Wichita, Kansas 67208

Heat Capacity of $\alpha-Al_2O_3$, S.-S. Chang, Institute for Materials Research, National Bureau of Standards, Washington, D.C. 20234

Use of the N.B.S. Superconductive Fixed Point Device in Germanium Thermometer Calibration, D. L. Martin, Physics Division, National Research Council of Canada, 100 Sussex Drive, Ottawa, K1A 0R6, Canada

The IPTS-68 in the Range 13.81 K to 903.89 K as Maintained at the National Bureau of Standards, C. T. Furukawa, Temperature Section, Institute for Basic Standards, National Bureau of Standards, Washington, D.C. 20234

SESSION XA -

SYMPOSIUM: THERMODYNAMICS OF MIXTURES (continued)

Heat of Neutralization of Alkylamines by Hydrogen Halides in Benzene, A. S. Kertes and F. Grauer, Institute of Chemistry, The Hebrew University of Jerusalem, Jerusalem, Israel

A System for the Measurement of Heats of Solution of Gases in Aqueous Solvents, W. A. Van Hook, L. Smith, and J. Cone, Department of Chemistry, University of Tennessee, Knoxville, Tennessee 37916

Statistical Thermodynamics of Dilute Solutions of Alcohols in Alkanes, A. Bellemans, University of Brussels, 50 av. Roosevelt, Bruxelles 1050, Belgium

Aspects and Possibilities of a New Application of Calorimetry: "Thermoporosimetry", C. Eyraud, M. Brun, A. Lallemand, and J.-F. Quinson, Université Claude Bernard Lyon I, 43, Bd. du 11 novembre 1918, 69604 Villeurbanne, France

SESSION XB - THERMAL PROPERTIES OF ACTINIDES

INVITED PAPER: PRESENT STATUS OF THE ACTINIDE HALIDE ENTHALPIES OF FORMATION, WITH EMPHASIS ON ROOM TEMPERATURE RESULTS, J. FUGER, Institut de Radiochimie, Université de Liège, Sart Tilman, B-4000 Liege, Belgium

Heat Capacity and Other Thermodynamic Properties of $^{242}PuO_2$ from 10 to 350 K, H. E. Flotow, D. W. Osborne, S. M. Fried, and J. G. Malm, Chemistry Division, Argonne National Laboratory, 9700 S. Cass Avenue, Argonne, Illinois 60439

Half-Life of ^{242}Pu from Low Temperature Heat Capacity Measurements on $^{242}PuF_3$, $^{242}PuF_4$, and $^{242}PuO_2$, D. W. Osborne, H. E. Flotow, S. M. Fried, and J. G. Malm, Chemistry Division, Argonne National Laboratory, 9700 S. Cass Avenue, Argonne, Illinois 60439

Precision Measurement by Bunsen Ice Calorimetry of the Total Decay Power of a Plutonium "Standard Heat Source", D. A. Dittmar, National Bureau of Standards, Bldg. 221, Room A324, Washington, D.C. 20234

SESSION XIA -

SYMPOSIUM: THERMODYNAMICS OF MIXTURES (concluded)

Extraction and Reduction to Standard States of K and/or ΔH° from Continuous Titration Calorimetric Data, J. J. Christensen, Department of Chemical Engineering and Center for Thermochemical Studies, 149 FB, Brigham Young University, Provo, Utah 84602

Corrections to Standard States in Solution-Reaction Calorimetry, C. E. Vanderaee, Department of Chemistry, University of Nebraska, Lincoln, Nebraska 68508

30th Annual Calorimetry Conference プログラム

SESSION XI B - SCANNING CALORIMETRY

The Use of Automated Data Systems to Collect Thermodynamic Data Using Differential Scanning Calorimetry. *B. Cassel, Perkin-Elmer Corporation, Norwalk, Connecticut 08856*

Design Considerations for Heat Conduction Scanning Calorimetry. *K. L. Churney and E. J. Prosen, Room B 353 Chem. Bldg., National Bureau of Standards, Washington, D.C. 20234*

POST DEADLINE

A Theoretical Model for the Thermodynamic Properties of Water at High Temperatures. *L. Haar, M. Klein, and J. Wardell, National Bureau of Standards, Washington, D.C. 20234*

Calorimetric Studies of Myosin ADP Interaction. *R. C. Holedge and T. Kodama, Department of Physiology, University College London, Gower Street, London WC1, England*

DISCUSSION: CALORIMETRIC STANDARD SAMPLES

D. W. OSBORNE, Discussion Leader

THE 31ST CALORIMETRY CONFERENCE WILL BE HELD AT ARGONNE NATIONAL LABORATORY FROM WEDNESDAY, SEPTEMBER 30 - SATURDAY, OCTOBER 3, 1976.

★ 第4回スカンジナビア熱分析シンポジウム

1975年8月21, 22日の両日, ストックホルム大学(スウェーデン)で開催された上記シンポジウムの講演題目は次の通り。アブストラクトをごらんになりたい方は「〒560 豊中市待兼山町1-1 阪大理 崎山 稔」あて御一報下さい。

Microthermogravimetry - Symmetrical Microthermoanalyzer from -196°C to 1700°C , Combined Micro DTA and EGA
G. Bourgeois ("Setaram", France)

DTA and Dilatometer Investigation on Iron and Steel
E. Kaiserberger (NETZSCH-Gerätebau, West Germany)

An Apparatus for Micro Thermo Gravimetric Analysis at Controlled Oxygen Partial Pressure
T. Hölin, T. Niklewski, M. Nygren and Ö. Sävborg (Univ. of Stockholm, Sweden)

Different Measuring Methods of DTA in Thermal Analysis System TA 500
J. P. Schulz (W. C. Heraeus GMBH, West Germany)

Simultaneous Thermogravimetric and Gaschromatographic Investigations of Decomposition Products
H. G. Wiedemann (Mettler Instruments AG, Switzerland)

Hot Stage Microscopy - A Versatile Method for Following a Chemical Reaction under Controlled Conditions
B. Forslund (Univ. of Stockholm, Sweden)

Multi - Sample DTA Apparatus for the 100 - 600 K Range
T. Hölin, T. Niklewski and M. Nygren (Univ. of Stockholm, Sweden)

Practical Use of the Kinetical Evaluation of Calorimetric DTA - Traces

G. Wiedemann (Mettler Instruments AG, Switzerland)

Thermal Analysis of Phenol - Formaldehyde Resins

V. Erä, A. Mattila and J. J. Lindberg (The Univ. of Helsinki, Finland)

Enthalpy of Formation of SbCl_5 - Complexes with Acetoacetanilides

A. Kettrup and K. Strieglar (Univ. Faderborn and Ruhr. Univ.)

Studying Stabilization of PVC by Differential Thermal Analysis

W. Dick and Chr. Westerberg (L. M. Ericsson, Telekabeidivisionen, Sweden)

Studies of Non - Stoichiometric Oxides by Thermoanalytical Methods

O. T. Sørensen (Danish Atomic Energy Commission, Denmark)

Standardization of Thermoanalytical Techniques

G. Berggren (AB Atomenergi, Sweden)

DTA as an Aid in Optimizing Reaction Parameters for High - Temperature Synthesis Experiments

T. Wadsten (Univ. of Stockholm, Sweden)

A Solid Electrolytes Gas Cell Technique for Measurement of Metal Oxide Oxygen Activities

S. Berglund (Univ. of Stockholm, Sweden)

Determination of Oxygen to Metal Ratio of Urania and Plutonia by Means of TG and DTA

G. Berggren (AB Atomenergi, Sweden)

Studies of Solidification Processes of Alloys by Thermal Analysis . I .

L. Westin (Swedish Institute for Metal Research, Sweden)

Studies of Solidification Processes of Alloys by Thermal Analysis . II .

L. Bäckérud (Swedish Institute for Metal Research, Sweden)

The Stability Field of $\alpha\text{-Al}_2\text{O}_3$ in the Ternary Reciprocal System $\text{NaF-AlF}_3\text{-Al}_2\text{O}_3\text{-Na}_2\text{O}$ Determined by Thermal Analysis
J. L. Holm (NTH, Norway)

Thermogravimetric Studies of the Reduction of Oxidized Metal Powders

B. O. Haglund, J. Frantz, S. Angel and R. Bernstein (Sandvik AB, Sweden)

The State of Thermal Analysis under Controlled Atmosphere: Experimental Arrangements and Some Typical Applications

J. Rouquérol (Centre de Microcalorimétrie et de Thermochimie du C.N.R.S., France)

Recent Applications of the DuPont Thermomechanical Analyzer

A. Robson (DuPont (U.K.) Ltd., England)