

内外情報

★高温における固体の熱的性質に関する第4回ヨーロッパ会議

1968年以來、2年ごとに開催されて来た上記会議がフランスのオルレアンで、9月4日～6日の間開催される。プログラムは、熱容量・熱伝導度・状態式・相転移・固体の照射効果など、高温固体の諸問題についての理論・実験などの報告(3月1日で申込メ切済)のほか、「高温における金属とセラミックスの熱力学的性質(Prof. M. Hoch, シンシナチ大学)」など数件の特別講演も予定されている。

連絡は下記まで:

Dr. B. PIRIOU

C. R. P. H. T. - C. N. R. S

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★第6回実験熱力学会議

上記会議が、4月3日～4月5日、イギリスのUniversity of Leedsで開かれる。宿泊設備の関係で、出席者は200名に限られる。世話人は、Dr. G. Pilcher, Department

of Chemistry, University of Manchester, Manchester M13 9PL.

★フランス熱測定および熱分析会議

AFCAT (フランス熱測定及び熱分析学会)の上記年会は、5月9～10の両日、フランスのUniversity of Rennesで開かれる。内容は、以下の4セッションよりなる。1および2:熱測定および熱分析における較正…異なる較正法とその信頼性についての提案・討論・3:熱測定および熱分析による相変化に関連するデータの決定について…直接法(DTA, DSC)と間接法(エンタルピー、熱容量、溶解熱等の測定)。4:一般の熱測定および熱分析。

通信先: J. P. Auffredic または C. Carel,

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★第3回国際化学熱力学学会プログラム

(Third International Conference on Chemical Thermodynamics 1973年9月1日～9月7日)

I. PLENARY LECTURES

E. U. Franck, Karlsruhe, BRD	Polar and Ionic Fluids at High Temperatures and Pressures
O. Kubaschewski, Teddington, England	Phase Equilibria in Condensed Systems
J. S. Rowlinson, London, England	Equilibria between Fluid Phases in Mixtures of Non-Electrolytes
H. Sackmann, Halle, DDR	Liquid Crystals
I. Wadsö, Lund, Sweden	Biochemical Thermochemistry
E. F. Westrum, Jr., Ann Arbor, USA	Calorimetry of Phase and Ordering Transitions

DETAILED SCHEDULE OF THE CONFERENCE ON CHEMICAL THERMODYNAMICS

Section 1:

Corundum Enthalpy Measurements Near the Freezing Point, V. D. Tarasov and V. Ya. Chekhovskoi

The High Temperature Enthalpy of Uranium Monocarbide and Plutonium Monocarbide, F. L. Oetting

Determination of the Enthalpy of Liquid Metals with a Liquid Argon Calorimeter, H. P. Stephens and L. S. Nelson

High Temperature Calorimeter—1500°C, J. Mercier

Mesures Calorimétriques des Enthalpies de Sublimation des Trois Acides Aminobenzoïques, R. Sabbah, R. Chastel et M. Laffitte

A New High-Pressure Recycle Flow Calorimetric Facility, Takaya Miyazaki and J. E. Powers

New Concepts in Design and Applications of Flow Microcalorimeters, P. Picker

A Sorption Microcalorimeter, Instrument and Applications, A. Johansson and R. Eckart

Microcalorimeter for Heat of Chemisorption Measurements in Higher Temperature, S. Randzio and W. Zielenkiewicz

A Micro Combustion Calorimeter and an Ampoule Technique for 5 to 10 mg Samples, M. Mansson

Method of Differences in the Enthalpies of Transfer in the Investigations of Thermochemistry of Solutions of Alkali Halides in Dimethylsulfoxide and Dimethylformamide, A. F. Vorob'ev, N. M. Privalova and B. G. Kostyuk

A DSC Method to Determine Stored Energy Release during Recrystallization Progress in Deformed Metals, A. Lucci, G. Riontino, M. Tamanini and G. Venturillo

Heat Capacity of Ethane and of an Equimolar Mixture of Ethane and Propylene, K. Bier, G. Ernst, J. Kunze and G. Maurer
The Heats of Vaporization and Heats of Mixing Measurement on a New Type of Calorimeter, V. Svabada, F. Vesely, V. Hynek, J. Pick and R. Holub

On Some Problems of Vaporization Thermodynamics for Low-Volatility Organic Compounds, V. S. Romanov, E. A. Miroshnichenko and Yu. A. Lebedev
Benzoic Acid as a Standard Substance for Low-Temperature Calorimetry, N. P. Rybkin, M. P. Orlova and A. K. Baranyuk

Comparison of Applicability of Various Cryometric Methods for Determination of Purity, Z. Bugajewski, A. Bylicky, S. Malanowski and M. Rogalski
An Automatic High Sensitivity A. C. Ratiometer for Resistance Thermometry, R. M. Dixon

Dynamic Properties of Diathermic Calorimeters, E. Margas and W. Zielenkiewicz

New Method of Determining Thermal Effects in Diathermic Calorimeter, W. Zielenkiewicz and E. Margas

Statistische Versorgung des Experiments in der Kalorimetrie, O. P. Mchedlov-Petrojan, W. Ju. Dubitski and W. L. Chernyovskii

Recherche de la Thermogenèse d'un Phénomène par Calorimétrie à Flux, J. P. Dubès, M. Barrès, R. Romanetti, H. Tachoire et C. Zahra

Section 2:

Halogen Thermochemistry, P. Gross

The Heats of Formation of Metal Nitrides and Silicides by Fluorine Bomb Calorimetry, J. L. Wood, G. P. Adams, J. Mukerji and J. L. Margrave
Heats of Formation of Crystalline Derivatives of $B_{10}C_2H_{12}$ Carboranes, G. L. Gal'chenko

The Enthalpies of Formation of Some Gadolinium Carbides, E. J. Huber, Jr., C. E. Holley, Jr. and N. H. Krikorian

Method of Explosive Calorimetric Combustion, Enthalpies of Formation of some Organosilicon Compounds, S. N. Hajjey, G. G. Nurullaev and M. J. Agarunov

Enthalpies of Combustion and Formation of 3,5-Diethylbenzoic Acid and 3,5-Di-*t*-Butylbenzoic Acid, M. Colomina, M. V. Roux and C. Turrión

Thermochemistry and Reactivity in Bridged-Ring Systems, W. V. Steele
Discussion: Enthalpies of Gallium and Indium Monochalcogenides Formation, T. Kh. Azizov, I. Ya. Aliev, A. S. Abbasov and K. A. Sharifov

The Standard Enthalpy of Formation of Dimethyl Oxalate, M. E. Anthony, A. Finch and M. Stephens

Standard Reference Materials for Combustion Calorimetry, G. T. Armstrong and W. H. Johnson

High Temperature Microcalorimetric Direct Measurements of h_{298}^m in Cerium Oxides from $O/Ce = 1.5$ to $O/Ce = 2$, J. Campserveux and P. Gerdañon

Thermochemistry of Aluminium β -Diketonates and Al-O Bond Energies, R. J. Irving and M. A. V. Ribeiro da Silva

The Enthalpy of Formation of Aqueous Chlorate and Perchlorate Ions, M. E. Efmov and V. A. Medvedev

Free Energy, Enthalpy, and Entropy Changes Accompanying the Formation of the Ag(I) Complexes with N-Methyl Substituted Ethylenediamines, L. C. Van Poucke

Thermodynamics of Liquid-Liquid Distribution Reactions. II. The Lithium Bromide-Water-2-Ethylhexan-1-ol System, Y. Marcus

Section 3:

An Equation of State for Xenon from 161 to 423 K at Pressures from 0 to 3000 Bar Including the Vicinity of the Critical Point, J. Juzo and O. Sifner

Discussion: Evaluation of Antoine Equation Constants, D. Wyrzykowska-Stankiewicz, A. Szofranski and K. Rapacka

Enthalpy and Entropy of Fusion of Several Heterocyclic Oligomers of the Heat-Resistant Polymers, Hirotoaru Kambe, Itaru Mita and Rikio Yokota

Discussion: Investigation of the True Thermal Capacity of Diphenyl Derivatives at Low Temperatures, M. F. Nagiev, K. A. Karasharli, Kh. I. Geidarov and O. I. Djofarov

Discussion: Investigation of Internal Rotation in Crystalline Fluoro-Chloroethanes and Propanes by Low-Temperature Calorimetry, V. P. Kolesov, V. N. Yorob'ev and E. A. Sarzhina

Measurements of the Isochoric Specific Heat Capacity near the Critical Point and in the Metastable Region of CO_2 by a Heat Flow Calorimeter, J. Straub

Representation of the Thermodynamic Properties of Liquids by Continuous Equations of State, A. J. B. Cruickshank, D. E. Goodwin, R. N. Mercer and A. J. Terry

Existence of Plural Glass Transition Points in Single Compound Revealed by Calorimetric Method, O. Haida, H. Suga and Syuzo Seki

Critical Point Non-Smoothness in the Coexistence Curves of Specific Volume and Free Energy, J. W. Burkis

The Melting Transition of the Rare Gas Elements and Metals. The Role of the So-Called Communal Entropy in Promoting Isothermal Melting, J. G. Aston

Discussion: The Heat Capacity of Liquid Bismuth, C. R. Brooks
The Solid-Fluid Phase Transition: A Cluster-Diagrammatic Approach, C. A. Croxton

Lattice Theories of Water, G. M. Bell

Monte Carlo Calculations of the Structure of Liquid Water, R. O. Watts

Section 4:

Simple Analytic Equations of State for Mixtures, R. L. Scott
Intermolecular Interactions and Excess Thermodynamic Properties of Argon-Krypton and Krypton-Xenon Mixtures, J. K. Lee, D. Henderson and J. A. Barker

Prediction of the Thermodynamic Functions of Liquids using Continuous Equations of State, A. J. B. Cruickshank, D. E. Goodwin, R. N. Mercer and A. J. Terry

Excess Properties of Binary Liquid Mixtures of Non-Associating Substances Differing in Size and Interaction Energy from Statistical Thermodynamics, J.-L. Gustin and H. Renon

Interactions of Molecules Represented by Graphs, W. Brostow
Discussion: Theoretical Treatment of Partially Miscible Liquids by Means of Equilibrium Models, F. Becker and M. Kieffer

Discussion: Thermodynamic Properties of Simple Liquids and their Mixtures, M. L. Huggins

Discussion: Application of Corresponding States Theories of Mixtures of Compressed Gases in Range of Pressure and Temperatures, B. Malesinska and J. Stecki

Discussion: First Order Perturbation Theory of Mixtures, T. Boublík

Thermodynamics of Binary Fluid Mixtures of $C(CH_3)_4$, $Si(CH_3)_4$, and $Sn(CH_3)_4$, M. L. McGlashan

Thermodynamics of Mixtures of Cycloalkanes, M. B. Ewing and K. N. Marsh
Thermodynamics of Liquid Mixtures of Xenon and Hydrogen Chloride, J. C. G. Calado, A. F. Kozdon, P. J. Morris, M. Nunes da Ponte, L. A. K. Staveley and L. A. Woolf

Free Excess Enthalpies of Binary Systems with Unsaturated Hydrocarbons, H. J. Bittrich, H. J. Gumpert and W. Schille

Discussion: Heats of Mixing of Long-Chain Tertiary Alkylamines with Benzene, A. S. Kertes and F. Grauer

Discussion: Thermodynamics of Liquid Mixtures of Chain Molecules Containing Dimethylsiloxanes, I. A. McClure, P. A. Sadler, E. Dickinson and A. J. Pretty

Discussion: Infinite-Dilution Activity Coefficients of Unsaturated Normal Hydrocarbons (Cs and Cs) in n-Octadecane, n-Octadec-1-ene, n-Hexadecane and Hexadec-1-ene, T. M. Letcher and F. Marsicano

Thermodynamics and Phase Behaviour of Liquid Mixtures at Low Temperatures and High Pressure, K. Peter and G. M. Schneider

Excess Enthalpies of Binary Fluid Mixtures at High Pressures and Low Temperatures; The System Nitrogen + Methane, C. J. Wormald and K. L. Lewis

Discussion: Conditions for "Gas-Gas Immiscibility", R. L. Scott
Discussion: "One-fluid" Theories of High-Pressure Phase Equilibria in Fluid Mixtures, M. L. McGlashan, K. Stead and Christina Warr

The Solubility of Gases in Liquids, VI. Solubility of N_2 , O_2 , CO , CO_2 , CH_4 and C_2H_6 in Methylcyclohexane and Toluene, L. R. Field, E. Wilhelm and R. Battino

The Solubility of Mercury in Polar Gases, H. S. Rosenberg and W. B. Kay

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Transport Properties, Dielectric Constants and Solid + Liquid Phase Diagram of Dioxane + Sulfolane System, *L. Jannelli, A. Inglesse, A. Sacco and P. Gianti*
Thermodynamic Study of DM5O + Halomethanes Mixtures, *R. Philippe and P. Clechet*

Acidic Organophosphorus Extractants—XX. A Calorimetric Study of Interaction with Various Solvents, *Z. Kolarik and Y. Marcus*
Zweite Virialkoeffizienten im System Wasser-Methanol, *G. Opel and M. Ramsdorf*

A Thermodynamic Characterization of the Hydrophobic Interaction, *F. Franks and D. S. Reid*

Thermodynamic Properties of Liquid Mixtures at High Pressure, *P. Engels, G. Götzke and G. M. Schneider*

Enthalpies of Mixing in Ternary Aqueous Nonelectrolyte Solutions, *V. P. Belousov*

Apparent Molar Specific Heats of Organic Solutes in Aqueous Solution, *S. Cobani, G. Conti, A. Martinelli and E. Matteoli*

Thermodynamic Properties of Binary Mixtures of Water + Alkanols, *J. A. Larkin and R. C. Pemberton*

The Solubility of Mixtures of Hydrogen Sulphide and Carbon Dioxide in Aqueous Diethanolamine Solutions, *J. I. Lee, F. D. Otto and A. E. Mather*

Reaction Rates Near Consolute Points of Liquid Mixtures, *M. M. Breuer, H. C. Birrell and P. Meehan*

Heats of Mixing of a Liquid Crystal (MBBA) with Non-Polar Solvents, *W. Wójcicki and J. Stecki*

Section 6:

Thermodynamic Derivation of a Modified Boltzmann Equation for the Composition Distribution in an Electric Field, *F. H. Horne and Jing-Shyong Chen*

Thermodynamische Charakteristiken der übersättigten zweikomponenten-wäßrigen Lösungen starker Elektrolyte, *E. I. Akhmedov*

Some New Kinds of Interactions in Ionic Solutions, *R. Gopal*

Thermodynamic Excess Functions in Electrolyte Solutions, *R. Viicu and F. Irinei*

Thermochemistry of Oscillating Reactions, *R. P. Rastogi, K. D. S. Yadava and A. Kumar*

Enthalpy-of-Dilution Behavior for Aqueous Lanthanum Perchlorate Solutions at 298.15 K, *C. E. Vanderzee and J. D. Nutter*

Thermochemistry of Chlorides MeCl₄ (Me = Ti, Zr, Sn) in Solutions and Standard Thermodynamic Properties of Ions Me (IV), *V. P. Vasiljev, P. M. Vorobjev, V. N. Vasiljev, N. I. Kokurin, L. A. Kochergina and A. I. Litkin*

Dynamic Solution Densimetry and Flow Microcalorimetry: Partial Molar Volumes and Heat Capacities of Organic Solutes and Proteins, *C. Jolicœur, P. Ficker and J. Boileau*

Dilatometric Studies of Polycarboxylates Aqueous Solutions, *V. Crescenzi, F. Delben, S. Paolletti and J. Skerjanc*

Physico-Chemical Properties of Guanidinium Salts Aqueous Solutions, *G. Barone, V. Elia and D. Paparone*

Ein Beitrag zum Problem der Voraussage von Salz-Effekten an charakteristischen thermodynamischen Eigenschaften, *H. Schubert*

Thermodynamics of Salts Distribution between Isoamyl-Alcohol and Water, *K. S. Krasnov and T. S. Kasas*

Apparent Molar Heat Capacities, Volumes and Expansivities of Alkali Halides in Urea-Water Mixtures, *J. E. Desnoyers, N. Desrosiers and G. Perron*

Thermodynamic Quantities for Dissociation of Acids in Water-t-Butyl alcohol Mixtures, *L. Avedikian, J. Juillard and J. P. Morel*

The Conductance of Alkali Halides in Solvent Mixtures Involving Sulfolane, *L. Jannelli, M. Castagnola, G. Petrella and A. Sacco*

Correlation of Thermodynamic Properties of NaI and CsI Solutions in Dimethylsulfoxide and Acetone, *K. P. Mishchenko, N. P. Novoselov and O. J. Ryabchenko*

Thermodynamics of Solution of Some Anhydrous Halides of Metals in Absolute Methyl and Ethyl Alcohols at Different Temperatures, *G. A. Krestov, V. A. Kobenin and S. V. Semenovskiy*

Influence of the Complexation of Ion Pairs on the Conductivity of Organic Solutions, *H. Hyskens, D. Pirson, M. C. Haultot and G. Poehlin*

Thermochemistry of Lanthanides Complex Formation Reactions with Complexions in an Aqueous Solution, *P. M. Milakov and N. V. Polenova*

Thermodynamic Studies of Complex Formations and Solubilities in the System Ca²⁺-Mg²⁺-CO₂-H₂O, *H. Gamsjäger, W. F. Riesen and P. W. Schindler*

Potentiometric Studies on Isopolycomplex Equilibria. (XXXV) Relation between "Isoligand Point" and Isopolyuclear Complexes: The System Ni²⁺/thiomalic Ions in the Solvent Na(ClO₄) = 1 M, at 25°C, *E. Botard and G. Carpéni*

Etude des Equilibres d'Isopolycondensation du Niobium V en Solution Alcaline: Mécanismes de Formation, *A. Giffon and B. Spinner*

Potentiometric Studies on Acid-Base Isopolyassociations in Aqueous Solutions. (XXXVI) Glycine and Ascorbic Acid Systems at 25°C, *G. Carpéni, S. Poize, N. Sabiani and G. Perinet*

Section 7:

The Solution Chemistry of Binary Charge-Symmetrical Fused Salt Mixtures, *O. J. Kleppa*

Mischungsenthalpien in Alkalichlorid-Lanthanidenchlorid-Systemen, *R. Blachnik and F. Dienstbach*

Activity Factors and Excess Functions in Some Molten Binary Mixtures of Nitrates, *R. Connan*

Ionenbeweglichkeiten in ladungsymmetrischen Salzschnmelzen aus Erdalkalimetall-Alkalimetallchloriden, *H.-H. Emons*

On the Determination of the Partial Excess Free Energy of Dissolved Salt in Molten Salt Medium, *B. F. Markov*

Thermodynamic Functions from Electromotive Force Measurements with Concentration Cells in Molten Salts, *I. G. Murgulescu and Ludmila Popescu*

Molar Volumes and Conductibilities of (Ag-Alkali)Br Molten Mixtures, *G. Poillerat*

Interpretation of the Temperature Dependence of the Partial Heat of Mixing in Dilute Solution in Liquid Metallic Systems. Application to the Au-Sn System, *C. Chatillon-Colinet et J. C. Mathieu*

A Theoretical and Experimental Study of Thermodynamic Properties in Ternary Fused Salt Mixtures, *M. Gaune-Escard and J.-P. Bros*

Thermodynamic Study of Ternary Systems In-Bi-Sb, Tl-Bi-As, Tl-Bi-Sb, *A. A. Kuliev, A. S. Abbasov and A. N. Mamedov*

Thermodynamic Studies of the Zn-Sn-In System in Dilute Liquid Zinc Solutions, *Z. Moser*

Phase Diagrams of Reciprocal Molten Salt Systems, *M. L. Saboungi and M. Blonder*

Thermodynamic Properties of Reciprocal Fused Salt Pairs (Ag⁺, Me⁺, I⁻, X⁻), *S. Sternberg and L. Bejan*

Thermochemistry of Molten Mixtures of Sodium Fluoride and Aluminium Fluoride and the Composition of the Melts in the System, *J. L. Holm*

Determination of the Standard Electrode Potential of Sodium in the Fused LiCl-KCl Eutectic at 450°C, *H. Pean and J.-B. Lesourd*

Section 8:

Introductory Paper: Thermodynamics of Interfaces, *R. Bown, C. E. Brown, D. H. Everett and P. E. Thorne*

Thermodynamics of Interfaces and Interfacial Layer Thickness, *A. I. Rusanov*

A Multilayer Model of the Interface of Binary Solutions with Polar Components, *N. A. Smirnova and E. N. Brodskaja*

Statistical Model of the Adsorption of a Surface Active Species on Metals, *G. L. M. Bernard and C. H. P. Lupis*

Thermodynamic Considerations on the Existence of an Equation of State between Interfacial Tensions, *C. A. Ward and A. W. Neumann*

Interdependence of van der Waals and Double Layer Interactions between Charged Interfaces, *E. Barouch, J. W. Perram and E. R. Smith*

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Thermodynamic Considerations on the Existence of an Equation of State between Interfacial Tensions, *C. A. Ward and A. W. Neumann*

熱 測 定

Discussion: The Oxidation Equilibria of the Urania-Thoria Solid Solutions, *D. Jakes and F. Skvor*

Thermodynamic Properties of Laves Phases in Ba-Pt, Ce-Ir, and La-Lr Systems. Solid Electrolyte Galvanic Cell Studies, *T. N. Rezukhina*

Discussion: The Thermodynamic Properties of Some Metal Fluorides. Solid Electrolyte Galvanic Cell Studies, *T. N. Rezukhina, T. Siseeva and L. Holokhona*

Solid Electrolyte EMF Studies and Differential Scanning Calorimetry of Palladium-Indium Alloys, *J. N. Pratt, J. M. Bird and A. W. Pryant*

Discussion: The Study of Vaporization Processes of Nd_2O_3 in Neutral and Oxidizing Atmosphere, *G. Benezech, J. P. Coutures and M. Foëx*

Thermodynamic Properties of the Th-Ru-System, *H. Kleykamp and M. Murabayashi*

Discussion: A Thermodynamic Study of the Niobium-Oxygen and Tantalum-Oxygen Solid Solutions Utilizing Solid Electrolytic Cells, *W. Nickerson and C. Altstetter*

Vaporization of Silicon Nitride, Si_3N_4 , *M. Hoch, W. Jamison and M. Yamawaki*

Discussion: Thermodynamics of the Titanium-Aluminium-Oxygen System, *M. Hoch and T. Vernardakis*

Segregation and Vapour Pressure Studies on the U-Pu-C-System, *P. Browning, B. A. Phillips, P. E. Potter and M. H. Rand*

Discussion: Equilibria Involving Volatile UO_2Cl_2 , *E. H. P. Cordfunke and G. Prins*

Über die thermodynamische Stabilität von (U, Zr) (C, N), *C. Kouhsen und A. Naumidis*

Discussion: High Temperature Enthalpy and Related Thermodynamic Functions of Non-Stoichiometric Uranium Oxides, *D. I. Marchidan and M. Ciopce*

Discussion: High-Temperature Thermodynamic Properties of Some Uranium Oxides from EMF Measurements on Solid Electrolyte Galvanic Cells, *D. I. Marchidan and S. Matei-Tanasescu*

Thermodynamic Study of Some Zirconates of Alkali-Earth Metals at Elevated Temperatures, *Ja. I. Gerassimov, V. A. Levitski and Ju. Hekimov*

Discussion: Modern Thermodynamic Analysis Methods of Multicomponent Solid Solutions with Varying Composition and Defectivity, *A. N. Men', Yu. P. Vorob'ev and G. I. Chufarov*

A Calorimetric Study of the Eutectoid Transformation in the Zinc-Aluminium System, *F. R. Sole and D. Cheetham*

Discussion: Experimental Study of the Ferrite/Austenite Equilibrium in the Fe-Cr-Mn-System and the Optimization of Thermodynamic Parameters by Means of a General Mathematical Method, *G. Kirchner and B. Uhrenius*

Heat Capacity of Nickel and Cobalt Tellurides, *K. C. Mills*

Discussion: Thermodynamic Properties of Alkali Chlorides and Alkaline Earth Chlorides with the Chlorides of the Iron Group Metals, *B. P. Burylev, V. Ya. Gershunina, V. L. Mironov and I. T. Sryvalin*

Heat Capacity and Thermodynamic Properties of Synthetic Magnetite (Fe_3O_4). Ferromagnetic Transition and Zero-Point Entropy, *F. Gronvold and A. Sveen*

Discussion: Low Temperature Specific Heats of Dysprosium and Holmium Dihydrides, *Z. Bieganski, J. Opyrchal and M. Drulis*

Discussion: The Heat Capacity Anomalies at the Magnetic Transitions in Pure Chromium Metal, *R. Weber, R. Street and R. Easton*

A Heat Capacity Study of Order-Disorder Transitions in Tris (Ethylenediamine) Copper (II) Sulphate and Tris (Ethylenediamine) Nickel (II) Sulphate: The Connection between the Transition in the Copper Salt and the Jahn-Teller Effect, *R. D. Worswick, A. Davies and L. A. K. Staveley*

Discussion: Thermodynamic Properties of Bivariant Equilibria for Hydrates and Water Vapor, *J.-J. Gardet, B. Builhot, J.-C. Mutin, M. Soustelle and G. Watelle-Marian*

Section 10:

The Solubilities of Gases in Benzene and Isobutanol Solutions of Cholesterol, Lecithin and Cephalin, *J. E. Byrne, W. F. Danforth and R. Battino*

Thermodynamics of Aqueous Solutions of Alkylureas and their Biochemical Effects, *G. Barone, V. Elia, L. Ferrara and E. Rizzo*

Thermochemical Properties of some Benzene Derivatives in Aqueous Solution, *N. Nichols and I. Wadsö*

Thermochemistry of transfer of N-Alkylamides from Water to Non-Aqueous Media, *G. Öjelund, R. Sköld and I. Wadsö*

Thermodynamic Properties of Aqueous Solutions of Fat Acids Salts and Some Lipids, *A. G. Morachevsky and E. P. Sokolova*

The Low Temperature Phase Behaviour of Aqueous Saccharides, *D. S. Reid, D. W. J. Blackburn and H. M. Page*

The Technique of Thermal Perturbation to Measure Ligand Binding to Macromolecules, *R. Bittonen*

Heats of Successive Reactions between Hemoglobin and CO , *J. St. Gill*

Thermodynamic Studies on the Binding of NADH to Lactate Dehydrogenase, *H. J. Hinz*

Die informations-energetische Analyse der Konformationsarbeit des Hämoglobinmoleküls, *K. Trincher*

Iron (III) Exchange between Chelates and Transferrin: Protons Displacement from Apotransferrin during the Reaction, *P. Silberzahn, P. Boivinnet and J. F. Coulon*

Calorimetric Studies on the Reconnection of Human APO-HDL with Hydroxy-Phosphatidylcholine, *M. Y. Rosseneu-Motreff, V. Blaton, F. Sotewey and H. Peeters*

Thermodynamics of Conformational Change, *T. H. Benzinger*

Discussion: Thermodynamics of Interfaces Organism—Environment as an Index of the Metabolic Energy, *R. J. Florov and Zh. V. Stojanov*

Microcalorimetry of the Interaction of DNA with Proflavine in Dilute Aqueous Solution, *F. Quadrifoglio, V. Giancotti and V. Crescenzi*

Enthalpy of Reduction of Disulfide Crosslinks in Denatured Lysozyme, *S. Lapanje and J. A. Rupley*

DETAILED SCHEDULE OF THE SYMPOSIUM ON PHYSICO-CHEMICAL TECHNIQUES AT HIGH TEMPERATURES

Session 1—Temperature Production and Measurement

Introductory Lecture, *K. Motzfeldt*

Problems in Accurate Temperature Measurement: The Melting Point of Y_2O_3 , *S. J. Schneider and C. L. McDaniel*

High Temperature Thermal Analysis Apparatus, *R. Lecocq*

High Precision Apparatus with Electromagnetic Levitation Method of Induction Heating Samples for Calorimetric and Temperature Measurements up to 3000°K, *V. V. Kandyba and V. D. Ovsyannikov*

Oxidizing Atmosphere Tunnel Furnace ($T > 2000^\circ\text{K}$), *K. Dembinski, L. Dupont, J. L. Dunand and A. M. Anthony*

Experimentation a Haute Temperature Avec un Nouveau Type de Four à Image, *J. P. Traverse et R. Flamand*

Nouveaux Types d'Appareillage Haute Temperature Associe a des Dispositifs a Concentration de Rayonnement, *G. Benezech, J. P. Coutures, B. Granier et M. Foëx*

Application du Chauffage par Concentration de Rayonnement (four à image) a l'Elaboration de Matériaux Refractaires Nouveaux, *R. Collongues, A. Revcolevschi, M. Saurat et G. Dhalenne*

Effects of Oxygen and Argon Atmospheres on Pendant Drops of Aluminium Oxide Melted with Carbon Dioxide Laser Radiation, *L. S. Nelson and N. L. Richardson*

Session 2—Vapour Pressures and Gas-condensed Phase Equilibria

Introductory lecture: Vapor Pressure Method, *K. L. Komarek*

Vapour Pressure Measurements by the Mass-Loss Diffusion Method, *H. Kvanke, K. Mozzfeldt and P. G. Wahlbeck*

Determination of Quantitative Thermodynamic Data for High Temperature Vaporization Processes and Solid-Vapor Reactions Employing the Effusion-Mass Spectrometric Technique, *M. Farber*

Analysis of Thermochemical Errors and Systematics in Sublimation of Lanthanide Trifluorides, *J. R. McCreary and R. J. Thorn*

Mass Spectrometric Investigations of Liquid Alloy Systems, *A. Neckel, L. Erdelyi, G. Sodeck and E. Buschmann*

The Influence of Thermal Diffusion on Chemical Reactions Between Gas Mixtures and Levitated Liquid Metal Droplets, *A. McLean*

Vapor Pressure and Triple Point of Graphite, *E. T. Chang and N. A. Gokcen*

Session 3—Structural Studies by X-ray Diffraction

Application du Chauffage par Concentration de Rayonnement (four à image) a la Diffraction des Rayons X a tres Haute Temperature ($3\ 200^\circ\text{C}$), *J. Hubert, A. Revcolevschi et R. Collongues*

Röntgenbeugung an polykristallinen Feststoffen bei hohen Temperaturen unter besonderer Berücksichtigung der Verhältnisse bei Graphit, *E. Fitzer und U. Funk*

Mesures Precises par Diffractometrie des Rayons X a Haute Temperature, Application a l'Etude d'Oxydes Refractaires, *J. P. Traverse et J. M. Badie*

A High Temperature X-ray Technique for Powdered Materials up to 2600°K, *E. Fitzer and S. Weisenburger*

Neutron Diffraction at High Temperatures, *M. Steintz and C. B. Alcock*

Session 4—Calorimetry

Reaction Calorimetry at High Temperature, *O. J. Kleppa*

An Assessment of the Accuracy of the High Temperature Heat Capacity of Solid Metals, *C. R. Brooks and E. E. Stansbury*

Accuracy and Precision in High Temperature Specific Heat and Thermal-Conductivity Measurements, *M. Hoch*

Radiation and Conduction Loss Corrections with Applications to Free Drop Calorimetry Data, *D. W. Bonnell, A. J. Valerga and J. L. Margrave*

High Temperature Thermodynamic Data for Liquid Metals by Levitation Calorimetry, *D. W. Bonnell, A. J. Valerga and J. L. Margrave*

Use of a Tian-Calvet Microcalorimeter at 1300°K Direct Measurement of h_m^0 in the Metal-Oxygen Systems, *G. Boreau and P. Gerdanian*

High Temperature Calorimetry up to 1800°K, *M. Gaune-Escard and J.-P. Bros*

Adiabatic Shield Calorimeters for Heat Capacity and Enthalpy Measurements, *F. Gronvold*

第3回Analytical Calorimetry シンポジウムプログラム

Session 5—Electromotive Force Measurements

High Temperature EMF Measurements in Solid and Liquid Electrolytes, S. N. Flengas

Interpretations of EMF of Concentration Cells, T. Ostvold

Application of EMF-Method to Determination of Thermodynamic Properties of Slag Systems, G. M. Mehrotra, M. G. Froberg, M. L. Kapoor and P. M. Mathew

Experimental Considerations in the Use of Solid Oxide Electrolytes, C. B. Alcock and S. Zador

Limitations in the Use of Solid State Electrochemical Cells for High-Temperature Equilibrium Measurements, T. A. Ramanarayanan and W. L. Worrell

Session 6—Kinetic Studies

Kinetic Studies at Elevated Temperatures—Some Experimental Problems, G. R. Belton

Measurement of Diffusion Coefficients at High Temperatures Using Electrochemical Techniques, B. C. H. Steele

The Use of Isotope Exchange Reactions for the Study of Heterogeneous Reaction Kinetics, H. J. Grabke

★フランス化学会分析化学部会実験熱力学グループ プログラム (1973年10月11日～12日)

Thermodynamique des phases condensées non métalliques.

1. Mesure par spectrométrie de masse des propriétés thermodynamiques des mélanges d'oxydes. Exemple: le système $Gd_2O_3-Ga_2O_3$. M. ALLIBERT

2. Etude de l'interaction Oxygène-oxydes réfractaires liquides purs ou complexes. Aspects expérimentaux et problèmes liés à l'interprétation thermodynamique des résultats obtenus. J. P. COUTURES

3. Comparaison des propriétés thermodynamiques des systèmes FeO et MnO. C. CAREL

4. Existence du composé YbO et estimation de ses propriétés thermodynamiques. J. C. ACHARD

5. Sur une détermination indirecte de l'entropie standard du nitrate de lithium. J. B. LESOURD

6. Etude thermodynamique du système liquide NO_3K-NO_3Li . M. GAUNE-ESCART

7. Contribution à l'étude du système U-O-Nd. J. F. WADIER

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3. Détermination de transformations de phases par spectrométrie de masse à haute température. A. PATTORET

4. Diagramme de phases solide-liquide des composés ternaires II-IV et IV-VI. A. LAUGIER

5. Diagramme de phases solide-liquide des composés ternaires II-IV et IV-VI. A. LAUGIER

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★第3回Analytical Calorimetry シンポジウムプログラム (1974年4月2日～5日)

Thermal Properties of the Poly lactone of Dimethylketene, a New Model Polymer.

E. M. Barrall II, D. E. Johnson, B. L. Dawson

Thermal Properties of Some Substituted Poly pentenamers. K. Sanui, W. J. MacKnight, R. W. Lenz.

Recent Advances in Titration Calorimeters.

L. D. Hansen, R. M. Izatt, D. J. Eatough, J. J. Christensen.

Recent Analytical Applications of Solution Calorimeters. R. M. Izatt, L. D. Hansen, D. J. Eatough, J. J. Christensen.

Biochemical and Clinical Applications of Titration Calorimetry and Enthalpimetric Analysis.

A. C. Censullo, J. A. Lynch, D. H. Waugh, J. Jordan.

Kinetics of an Anhydride-Epoxy Polymerization as Determined by Differential Scanning Calorimetry. P. Peyser, W. D. Bascom.

Determining the Kinetic Parameters for Two Materials Decomposing Simultaneously.

R. W. Mickelson, M. A. Capraro, S. M. Autio.

Preliminary Results on the Nature of n in Equation $(dx/dt)=k(a-x)^n$ as Applied to Three Solid Thermal

Decomposition Reactions.

D. M. Speros, H. R. Werner.

International Standards for ΔT Progress and Problems. H. G. McAfee.

Calorimetric Studies of Extrusion.

H. P. Schreiber.

The Enthalpy of Fusion of Low Molecular Weight Linear Polyethylene Fractions Crystallized from Dilute Solution.

S. Go, F. Kloos, L. Mandelkern.

Fusion as an Opportunity for Calorimetrically Probing Polymer Conformations and Interactions in the Bulk State.

A. E. Tonelli.

Self-Seeded PE Crystals; Melting and Morphology.

I. R. Harrison, G. L. Stutzman.

The Detection of Impurities by Thermal Analysis.

H. J. Ferrari, N. J. Passarello.

The Development and Application of an Ultra-Sensitive Quantitative Effluent Gas Analysis Technique. P. A. Barnes, E. Kirton.

Effect of Dehydration on the Specific Heat of Cheese Whey. E. Berlin, P. G. Kliman.

Some Recent Research on Thermal Properties of Milk Fat Systems. J. W. Sherbon.

Thermal Behavior of Chemical Fertilizers.

C. Giavarini.

Novel Thermal Methods for Gas Generating Reactions. A. A. Duswalt.

Theory of Differential Scanning Calorimetry --

Coupling of Electronic and Thermal Steps.

J. H. Flynn.

- Steady State Technique for Low Temperature Heat Capacity of Small Samples.
R. Viswanathan.
- Some Applications of Differential Scanning Calorimetry to the Study of Phase Transitions.
W. P. Brennan.
- The Enthalpy and Heat of Transition of Cs_2MoO_4 by Drop Calorimetry.
D. R. Frederickson, M. G. Chasanov.
- High Sensitivity Enthalpimetric Determination of Olefins. L. Williams, B. Howard, D. W. Rogers.
- The Use of Thermal and Ultrasonic Data to Calculate the Pressure Dependence of the Gruncisen Parameter. R. Urzendowski, A. H. Guenther.
- Factors Which Establish the Sensitivity of Thermistors as Temperature Transducers.
L. D. Bowers, P. W. Carr.
- The Interaction of Proteins with 12-Phosphotungstic Acid --- A Thermochemical Investigation.
P. W. Carr, S. R. Betso, R. E. Callicott.
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- Differential Scanning Calorimetry Studies on DNA Gels. H. W. Hoyer, S. Nevin.
- Heats of Immersion of Hydroxyapatites in Water.
H. M. Rootare, R. G. Craig.
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R. G. Craig, H. M. Rootare.
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J. M. Powers, R. G. Craig.
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C. J. Martin, B. R. Sreenathan, M. A. Marini.
- Verification of the Ionic Constants of Proteins by Calorimetry. M. A. Marini, C. J. Martin, R. L. Berger, L. Forlani.
- The Construction of a Microcalorimeter and Measurements of Heats of Solution of Stretched Glassy Polystyrene.
Y. Takashima, K. Miya, S. Miyata, K. Sakaoku.
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S. Miyata, T. Arikawa, K. Sakaoku.
- Calorimetric Investigation of the Chloroform - Pyridine Complex.
G. L. Bertrand, T. E. Burchfield.
- Solid State Reaction Kinetics: IV The Analysis of Chemical Reactions by Means of the Weibull Function. E. A. Dorko, W. Bryant, T. L. Regulinski.
- Applications of Group Enthalpies of Transfer.
R. Fuchs.
- Utilization of an Electronic Integrator to Determine the Heat of Transition of Some Tetrafluoroborate Salts.
R. T. Marano, R. Krienke, R. Atnip.
- Design Considerations for a Scanning Calorimeter.
K. L. Churney, E. J. Prosen.
- A Small, Mini-Computer-Automated Thermoanalytical Laboratory. E. Catalano, J. C. English.
- Applications of Thermal Analysis as a Substitute for Standard ASTM Polymer Characterization Tests.
P. S. Gill, P. F. Levy.
- The Use of Thermal Evolution Analysis for the Determination of Vapor Pressure of Agriculture Chemicals. R. L. Blaine, P. F. Levy.
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P. D. Garn.
- Hot-Stage Electron Microscopy of Clay Minerals.
D. L. Jernigan, J. L. McAtee, Jr.
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J. N. Maycock, J. Skalny.
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W. H. Flank.
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W. C. Herndon, J. Fuer, R. E. Mitchell.
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M. Farber, R. D. Srivastava.
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J. A. Currie, N. Pathmanand.
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B. Cassel.
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- Thermal Evolution Analysis of Some Organic Materials. E. W. Kifer, L. H. Leiner.
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A. Palenzona, S. Cirafici.
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