

Announcements

**IUPAC Conference on Chemical Thermodynamics
and
The Calorimetry Conference
Joint Meeting at McMaster University, Hamilton, Ontario, Canada
August 13–17, 1984**

The scientific program will include symposia on the following topics:

- Thermodynamics of nuclear materials
- Thermodynamics of binary liquid mixtures
- Thermodynamics of biochemical and biological systems
- Thermodynamics of energy storage
- Some thermodynamic aspects of geochemistry
- Thermochemistry and bond enthalpies of organometallic compounds

In addition, there will be several sessions devoted to topics not covered by the symposia. For further information contact:

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Chemical Technology Division
Argonne, Illinois 60439, U.S.A.
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**9th International Thermal Expansion Symposium
Pittsburgh, Pennsylvania, U.S.A.
August 20–22, 1984**

The topics to be discussed will include:

- Thermal expansion of geological materials and systems, and problems related to waste disposal handling

- Nuclear applications, power plant, and reactor component systems
- Composite materials and the quest for tailoring expansion behavior to needs
- Plastics and other nonmetallic systems
- Testing methodology for unconventional shapes and applications (foil, yarn, woven fabric, thin plate, sandwiched laminates, moulded bodies, etc.)
- Automotive and transportation oriented materials development
- High speed and high accuracy methods for advanced research
- New fields of interest, such as robotics, electronic circuit boards, and integrated circuit chip packaging
- Thermal expansion testing as a quality control tool

For further information contact:

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1700 Universal Road
Pittsburgh, Pennsylvania 15235, U.S.A.
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**9th European Conference on Thermophysical Properties
University of Manchester/UMIST, Manchester, United Kingdom
September 17-21, 1984**

The Conference will concentrate on the thermophysical properties of solids and fluids at elevated temperatures. Measured properties and techniques will include:

- Emissivity
- Thermal expansion
- Thermal diffusivity and thermal conductivity
- Heat capacity
- Differential thermal analysis and heats of transition
- Heat transfer and thermal shock resistance

Papers in the following subject areas will be particularly welcomed: thermometry, geological materials, composites, glasses, insulations, porous substances, relationship between microstructure and properties, standard reference materials, theory of thermophysical properties of solids and fluids. For further information contact:

Dr. R. Taylor
Department of Metallurgy
University of Manchester/UMIST
Grosvenor Street
Manchester M1 7HS
United Kingdom

5th Japan Symposium on Thermophysical Properties
Kobe, Japan
October 29–31, 1984

Discussions will include the following subjects:

- Measuring techniques, instruments, standard materials
- Evaluation and correlation of property data
- Metals, refractory materials
- Solid, composite materials
- Building materials and insulators
- Liquids, gases
- Molten materials
- Foods, clothes, biomaterials
- Radiative properties
- Soils, rocks, coals, frozen beds

Submission of papers: Abstracts of one typewritten page must reach the organizer addressed below before June 30, 1984. For further information contact:

Professor T. Makita
Department of Chemical Engineering
Kobe University
Kobe 657, Japan

9th Symposium on Thermophysical Properties
Boulder, Colorado, U.S.A.
June 24–27, 1985

The Ninth Symposium on Thermophysical Properties, organized by the Committee on Thermophysical Properties of the Heat Transfer Division of the American Society of Mechanical Engineers, is concerned with theoretical, experimental, and applied aspects of thermophysical properties of matter in solid, liquid, and gaseous states. Some of the appropriate topics are:

- Thermodynamic properties, including heat capacity, enthalpy, thermal expansion, vapor pressure, surface tension, and other properties related to phase changes, PVT, and calorimetric studies.
- Transport properties, including thermal and electrical conductivity, thermal diffusivity, viscosity, and related properties.
- Thermal radiative properties, including emittance, absorptance, reflectance, and optical constants.
- New developments in experimental techniques.
- Reviews of current status of theory on thermophysical properties.

- Reports on reference materials and critical evaluation and standardization of techniques and procedures for thermophysical measurements.
- Reference data-correlation and evaluation techniques.

We encourage papers on: properties and behavior of solids and liquids near phase transitions including supercritical extraction; multiphase behavior, e.g., slurries, suspensions; experimental techniques and measurements at high temperatures and pressures; nonequilibrium behavior of materials—theory, experiment, non-Newtonian liquids, nonequilibrium thermodynamics; partially characterized or ill-defined species, petroleum and coal liquids fraction, composites, polydisperse fluids; theory and properties of polar liquids, aqueous solutions; theory and properties of mixtures with very different components.

Abstracts will be due December 1, 1984. Papers from these abstracts will be reviewed and those accepted will be published in the *International Journal of Thermophysics*. A poster session will be considered.

For further information contact:

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