

Announcements

**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:

Dr. P. S. Gaal
Anter Laboratories, Inc.
1700 Universal Road
Pittsburgh, Pennsylvania 15235, U.S.A.
Telephone: (412) 795-6410

**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:

Dr. P. A. G. O'Hare
Argonne National Laboratory
Chemical Technology Division
Argonne, Illinois 60439, U.S.A.
Telephone: (312) 972-4535
Telex: 910-258-3285

**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