

Announcement

FOURTEENTH SYMPOSIUM ON THERMOPHYSICAL PROPERTIES

National Institute of Standards and Technology

Boulder, Colorado, U.S.A.

June 25–30, 2000

This is the Fourteenth Symposium of the well-established series of conferences on thermophysical properties. The symposium is concerned with theoretical, experimental, and applied aspects of the thermophysical properties of gases, liquids, and solids. Appropriate topics are as follows.

- (1) *Thermodynamic properties*, including equation of state, phase equilibria, p - v - T behavior, heat capacity, enthalpy, thermal expansion, sound speed, and critical phenomena.
- (2) *Transport properties*, including thermal and electrical conductivity, viscosity, mass diffusion, thermal diffusion, and non-Newtonian behavior.
- (3) *Optical and thermal radiative properties*, including dielectric constant, refractive index, emissivity, reflectivity, and absorptivity.
- (4) *Interfacial properties*, including solid–solid interfaces, surface tension, interfacial profiles, interfacial transport, and wetting.
- (5) *Data correlation*, including data evaluation and prediction, standard reference data, databases, and storage and retrieval of thermophysical-property data.

Special topics included in the symposium are as follows.

- Properties of complex fluids (e.g., ionic fluids, micellar and polymer solutions)
- Properties of alternative refrigerants and natural gas systems

- Data for energy and environmental applications
- Properties for chemical process design
- Wetting and interfaces
- Properties of supercritical fluids
- Properties of new materials (composites, thin films, polymers)
- Properties of molten materials
- Shear effects on thermophysical properties
- Advanced optical and acoustic techniques
- Properties in low gravity
- Subsecond thermophysics
- Database demonstrations
- Properties of aqueous systems
- Phase transitions/critical phenomena
- Molecular simulation
- Properties of metastable fluids

For further information, please visit the symposium web site,

<http://www.symp14.nist.gov>

or contact one of the symposium cochairs,

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