

Announcements



THERMO INTERNATIONAL 2006

**University of Colorado,
Boulder, Colorado, U.S.A.**

July 30–August 4, 2006

This major international event will include the 16th Symposium on Thermophysical Properties, the 19th International Conference on Chemical Thermodynamics, and the 61st Calorimetry Conference. This is the first time that these three conferences have been held jointly at the same site and is scheduled as a one-time event. The technical program of THERMO International 2006 consists of joint sessions as well as independent sessions of the three conferences. The program will include a keynote lecture, major award lectures, joint plenary lectures, conference-specific plenary lectures, invited lectures, oral presentations, and poster papers.

Further information (registration, housing, etc.) is available at the THERMO International 2006 web site:

<http://www.thermointernational.org>

SIXTEENTH SYMPOSIUM ON THERMOPHYSICAL PROPERTIES

(Part of **THERMO International 2006**)

University of Colorado

Boulder, Colorado, U.S.A.

July 30–August 4, 2006

This is the Sixteenth Symposium of the well-established series of conferences on thermophysical properties. The Symposium is concerned with theoretical, experimental, simulation, and applied aspects of the thermophysical properties of gases, liquids, and solids, including biological, nanoscale, mesoscale, and self-assembling systems. Appropriate topics are:



- (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, non-Newtonian behavior, and thermal, thermoacoustic, and other diffusion waves;
- (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.

In addition to the more general sessions on *Experimental Techniques* and the *Theory and Modeling of Thermophysical Properties* for both solids and

***fluids* Special Focus Areas related to properties to be emphasized at the Symposium are:**

- †Databases, Data Systems, Software Applications, and Correlations Fluctuation-Induced Properties of Fluids, Including Non-equilibrium Thermodynamics
- Instrumentation and Measurement Techniques
- Inverse Problems and Non-Destructive Evaluation
- †Ionic Liquids
- †Molecular Modeling, Including Simulation
- Optical and Thermal Radiative Properties of Materials
- Photothermal and Photoacoustic Techniques for Property Measurements
- †Properties and Processes for a Hydrogen-Based Economy
- Properties at the Nanoscale
- Properties for Metallurgical Process Design
- Properties for Microelectronics
- Properties for Sustainable Development
- Properties of Aqueous Systems
- Properties of Fuels, Including Natural Gas Systems
- Properties of Mesoscopic, Self-Assembled, and Strongly Fluctuating Systems
- Properties of Nuclear Materials
- Properties of Polymers
- Properties of Working Fluids, Including Refrigerants
- Property Needs in Biothermophotonics
- Subsecond Thermophysics
- †Thermodynamics and Properties in the Biological, Medical, Pharmaceutical, Agricultural and Food Sectors
- Wetting, Interfaces, and Membranes

† Denotes sessions to be held jointly with the 19th ICCT

Abstracts of 200–300 words must be submitted by **December 19, 2005**. The abstracts should be submitted through the Symposium web page at

<http://www.symp16.boulder.nist.gov>; further details will be posted at this site as they become available.

The content of the abstracts will be the basis for acceptance of papers for presentation at the Symposium.

It is expected that Poster Sessions will be held as part of the Sixteenth Symposium on Thermophysical Properties in order to limit the numbers of parallel sessions. Posters and oral presentations will receive equal recognition as Symposium contributions. Prospective authors will be asked to indicate whether a poster presentation or an oral presentation is preferred. The organizers will attempt to honor requests for each type of presentation, although assignment of sessions may necessitate changes. Information on this subject will be included in the acceptance letters to be sent in early 2006.

Manuscripts describing all work presented at the Symposium are encouraged, but not required. Manuscripts must be received by May 8, 2006; electronic submission of manuscripts will be mandatory. A preprint volume on CD-ROM will be available at the Symposium. The papers will be reviewed, and those accepted will be published in special proceedings issues of the *International Journal of Thermophysics* and *Fluid Phase Equilibria*.

For further information, please visit the Symposium web site:

<http://www.symp16.boulder.nist.gov>

or contact the organizers via e-mail at symp16@boulder.nist.gov

All technical sessions will be held at the University of Colorado, Boulder, Colorado, U.S.A. The Symposium is organized by the National Institute of Standards and Technology and the Committee on Thermophysical Properties of the Heat Transfer Division, American Society of Mechanical Engineers. The co-chairs of the Symposium are:

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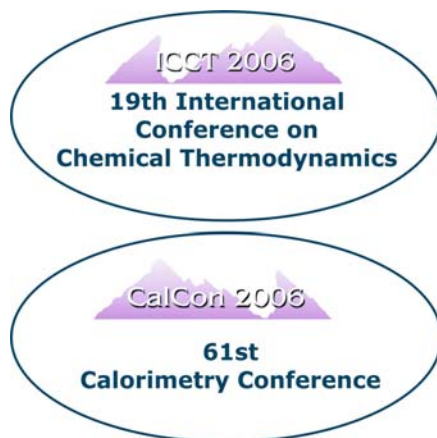
19TH INTERNATIONAL CONFERENCE ON CHEMICAL THERMODYNAMICS AND 61ST CALORIMETRY CONFERENCE

(Part of **THERMO International 2006**)

University of Colorado

Boulder, Colorado, U.S.A.

July 30–August 4, 2006



The International Conferences on Chemical Thermodynamics are traditionally held every 2 years rotating among North America, Europe, and Asia. The 18th International Conference on Chemical Thermodynamics was held in Beijing, China. The 19th International Conference on Chemical Thermodynamics will be held under the auspices of the International Union of Pure and Applied Chemistry (IUPAC, <http://iupac.org>) and International Association of Chemical Thermodynamics (IACT, <http://iactweb.org>). The Calorimetry Conference is convened annually at selected sites in either the U.S.A. or Canada (60th Calorimetry Conference was held in Gaithersburg, Maryland, U.S.A) and is always held jointly with the International Conference on Chemical Thermodynamics (ICCT) when ICCT is convened in either the U.S. or Canada.

The program will include major award lectures, plenary lectures, invited lectures, oral presentations, poster papers, database and software demonstrations, and a scientific exhibition. Among the highlights of the program are: the Rossini Lecture, the highest award of the ICCT; the Huffman Memorial Lecture, the highest award of the Calorimetry Conference; as well as other award presentations such as the IACT Doctorate Awards of the ICCT and the Sunner, Christensen, and Giauque Awards of the Calorimetry Conference. The recipient of the 2006 Rossini Lectureship Award is Prof. Alexandra Navrotsky of the University of California at Davis, U.S.A. The nominations for other awards will be solicited later in

the year from the Web sites of the Conferences: <http://www.ICCT2006.org> for the 19th ICCT and <http://www.CalCon2006.org> for Calorimetry Conference.

The Joint Scientific Program of the 19th International Conference on Chemical Thermodynamics and the 61st Calorimetry Conference will include the following symposia and workshops:

Symposia

- Thermochemistry and Molecular Energetics
- New Materials
- Electrolyte and Non-Electrolyte Solutions Thermodynamics
- Phase Equilibrium, Supercritical Fluids, and Separation Technologies
- Colloid and Interface Science
- †Thermodynamics and Properties in the Biological, Medical, Pharmaceutical, Agricultural, and Food Sectors
- †Molecular Modeling Including Simulation
- †Ionic Liquids
- †Databases, Data Systems, Software Applications, and Correlations (in memory of Dr. Randolph Wilhoit)

Workshops

- Thermodynamic Frontiers and Education
- New Experimental Techniques
- †Properties and Processes for a Hydrogen-Based Economy

†Denotes sessions to be held jointly with the 16th Symposium on Thermophysical Properties

Organizing Committee

Michael Frenkel

Chairman of the 19th International Conference on Chemical Thermodynamics, Program Chair of the 61st Calorimetry Conference

Robert D. Chirico

Co-Chair, 19th International Conference on Chemical Thermodynamics

Joseph W. Magee

Co-Chair, 19th International Conference on Chemical Thermodynamics