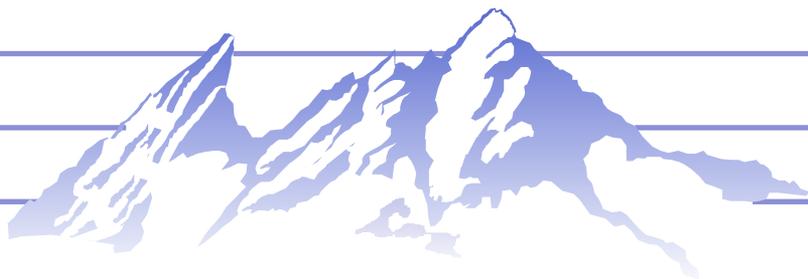


SECOND ANNOUNCEMENT AND CALL FOR PAPERS

**Nineteenth Symposium on
Thermophysical Properties**



19

<http://thermosymposium.boulder.nist.gov>

**June 21 - 26, 2015
University of Colorado at Boulder**

Organized by:

- National Institute of Standards and Technology
- Joint ASME-AIChE Committee on Thermophysical Properties

CALL FOR PAPERS

*Abstracts of 200-300 words must be received by **November 26, 2014**.*

The abstracts must be submitted through the Symposium web page at <http://thermosymposium.boulder.nist.gov>. Please refer to the website for the most recent information.

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

Oral, Poster, and Database Demonstration Sessions will be held as part of the Nineteenth Symposium on Thermophysical Properties. All presentations will receive equal recognition as Symposium contributions. Prospective authors will be asked to indicate whether a poster presentation, oral presentation, or database demonstration is preferred. The organizers will attempt to honor requests for each type of presentation, although the assignment of sessions may necessitate changes. Information on this subject will be included in the acceptance letters to be sent in December 2014. Papers describing all work presented at the Symposium are encouraged, but not required. Papers received by June 26, 2015 will be reviewed, and those accepted will be published in the conference journals: International Journal of Thermophysics, Fluid Phase Equilibria, the Journal of Chemical and Engineering Data, and Fuel Processing Technology. Manuscripts should be submitted directly to the selected conference journals through their websites.

PLENARY AND KEYNOTE SPEAKERS

Dr. Michael Knotek

Deputy Under Secretary,
Office of the Under Secretary for Science and Energy,
U.S. Department of Energy

Dr. Richard Davis

Principal Research Physicist Emeritus,
International Bureau of Weights and Measures (BIPM)

Prof. David G. Cahill

Dept. Materials Science and Engineering,
University of Illinois
at Urbana-Champaign

Dr. Michael R. Moldover

Fellow,
Physical Measurement Laboratory,
National Institute of Standards and Technology



TECHNICAL AREAS AT THE 19th SYMPOSIUM

- Correlations and Engineering Equations of State
Eric Lemmon (NIST) & Roland Span (Ruhr Univ. - Bochum)
 - Databases and Software
Ken Kroenlein (NIST) & Thomas Knotts (BYU)
 - Fluctuation-Induced and Mesoscopic Properties of Fluids
Mikhail Anisimov (Univ. Maryland)
 - Fluid Property Measurements
Rakesh Srivastava (Dow) & Karsten Meier (Helmut Schmidt Univ.)
 - Instrumentation and Measurement Techniques
Tom Bruno (NIST)
 - Inverse Problems and Non-destructive Evaluation
Xavier Maldague (Laval Univ.), Roberto LiVoti (Univ. Rome), & Andreas Mandelis (Univ. Toronto)
 - Ionic Liquids
*José Nuno Canongia Lopes (Instituto Superior Técnico - Lisbon)
& Luis Paulo Rebelo (Univ. Nova de Lisboa)*
 - Molecular Simulation
Vince Shen (NIST) & Andrei Kazakov (NIST)
 - Non-equilibrium Thermodynamics
Fernando Bresme (Imperial College) & David Reguera (Univ. Barcelona)
 - Optical and Thermal Radiative Properties
Zhuomin Zhang (Georgia Tech) & Leonard Hanssen (NIST)
 - Photothermal and Photoacoustic Techniques
Andreas Mandelis (Univ. Toronto)
 - Properties for Materials Science at High Temperatures
Doug Matson (Tufts Univ.) & Gernot Pottlacher (TU Graz)
 - Properties of Aqueous Systems
Andre Anderko (OLI Systems) & Josef Šedlbauer (Univ. Liberec)
 - Properties for Fuels and Energy Systems
Sergio Quiñones-Cisneros (UNAM) & Tony Goodwin (Schlumberger Technology Corp.)
 - Properties of Polymers and Composites
Jason Killgore (NIST) & Yifu Ding (Univ. Colorado)
 - Properties of Solids
Heng Ban (Utah State)
 - Properties of Working Fluids including Refrigerants
Stephanie Outcalt (NIST) & Mark McLinden (NIST)
 - Theory of Thermophysical Properties
Clare McCabe (Vanderbilt Univ.) & Amparo Galindo (Imperial College)
 - Thermal Properties of Nanostructured Materials
Xinwei Wang (Iowa State Univ.) & Ronggui Yang (Univ. Colorado)
 - Thermophysical Methods for Biomaterials and Biosystems
Juan José Alvarado-Gil (CINVESTAV IPN) & Andreas Mandelis (Univ. Toronto)
 - Wetting, Interfaces, and Membranes
Marcus Müller (Univ. Göttingen) & Carolyn Koh (Colorado School of Mines)
-
- Posters
Joe Magee (NIST) & Jason Widegren (NIST)
 - Software Demonstrations
Rob Chirico (NIST)

ABOUT THE CONFERENCE

This is the Nineteenth 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 systems. Appropriate topics are:

- *Thermodynamic Properties*, including equation of state, phase equilibria, p - V - T behavior, heat capacity, enthalpy, thermal expansion, sound speed, and critical phenomena.
- *Transport Properties*, including thermal and electrical conductivity, viscosity, mass diffusion, thermal diffusion, non-Newtonian behavior, thermal, thermoacoustic, and other diffusion waves.
- *Optical and Thermal Radiative Properties*, including dielectric constant, refractive index, emissivity, reflectivity, and absorptivity.
- *Interfacial Properties*, including solid-solid interfaces, surface tension, interfacial profiles, interfacial transport, and wetting.
- *Data Correlation*, including data evaluation and prediction, standard reference data, databases, and storage and retrieval of thermophysical property data.

GENERAL INFORMATION

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 Joint ASME-AIChE Committee on Thermophysical Properties. The Nineteenth Symposium email address is: symp19@boulder.nist.gov

Co-Chair of the Symposium:

Dr. Daniel G. Friend

Special Assistant to the Director (Energy Research)
Technical Program Director for Energy Research
Office of Special Programs, Office of the Director (ADLP)
National Institute of Standards and Technology
325 Broadway
Boulder, CO 80305-3337, U.S.A.
Fax: (1) 303-497-5030

Co-Chair of the Symposium:

Dr. Marcia L. Huber

Applied Chemicals and Materials Division
National Institute of Standards and Technology
325 Broadway
Boulder, CO 80305-3337, U.S.A.
Fax: (1) 303-497-5044

For further information, please access the Symposium web site at
<http://thermosymposium.boulder.nist.gov>
or contact the organizers at symp19@boulder.nist.gov.