

**Extended Deadline for
Abstract Submission:
15. Feb. 2008**

Update 01/2008

15th International Conference on the Properties of Water and Steam (15th ICPWS)

7. – 11. September 2008,
Radisson SAS Hotel, Berlin, Germany

Water, Steam, and Aqueous Solutions –
Advances in Science and Technology for Power
Generation

About the Conference

The 15th International Conference on the Properties of Water and Steam (15th ICPWS) continues the series of International Conferences on the Properties of Water and Steam started in 1929. The conference is concerned with the physical and chemical properties of water, steam, and aqueous systems.

Relevant areas of basic science include spectroscopy, calorimetry, potentiometry, thermo-physical property measurements and modelings, and molecular simulation studies of water and ice, and solvated species in high-temperature or sub-cooled water.

Areas of application include power cycle chemistry, high-temperature aqueous technologies applicable to steam cycles and fuel cells, the use of high-temperature water and supercritical steam in chemical and metallurgical processes, supercritical destruction of toxic wastes, hydrothermal geochemistry, hydrometallurgy, oceanography, power cycles with carbon dioxide capture and storage of carbon dioxide in aqueous environments.

Plenary Lectures

The plenary lectures will be given by the IAPWS Gibbs Award recipient and invited key note speakers:

- **IAPWS Gibbs Award Lecture:**
Prof. Wolfgang Wagner
(Chair of Thermodynamics, Ruhr-University Bochum, Germany)
- **Keynote Lecture:**
Prof. John M. Prausnitz (Professor of Chemical Engineering,
University of California, Berkeley, USA)
- **Keynote Lecture:**
Dr. Michael Süß
(Vice President, Siemens AG Energy Sector, Germany)

Symposia and Workshops

- **Calculation of Water and Steam Properties for Industrial Use**
Invited Speaker: Dr. Gustav Löbel
(Siemens Power Generation, Germany)
Organizers: Prof. H.-J. Kretzschmar (Zittau/Goerlitz University of
Applied Sciences, Germany)
Dr. M. Hiegemann (Alstom Power, Switzerland)
W. Parry (General Electric, USA)
- **Thermodynamic and Transport Properties of Aqueous Systems**
Invited Speaker: Dr. Andre Anderko (OLI Systems Inc., USA)
Organizers: Dr. A. Harvey (NIST, USA)
Prof. G. Maurer (University of Kaiserslautern, Germany)
- **Molecular Simulation and Spectroscopy in Aqueous Systems**
Invited Speaker: Prof. P. Kusalik (University of Calgary, Canada)
Organizers: Dr. K. Yasuoka (Keio University, Japan)
Prof. I. M. Svishchev (Trent University, Canada)
- **Nonequilibrium, Metastable and Critical States**
Invited Speaker: Prof. H. E. Stanley (Boston University, USA)
Organizers: Prof. M. A. Anisimov (University of Maryland, USA)
Prof. J. V. Sengers (University of Maryland, USA)
- **Thermodynamics and Kinetics in Hydrothermal Systems**
Invited Speaker: Dr. A. Chialvo (Oak Ridge National Laboratory, USA)
Organizer: Dr. D. A. Palmer (Consultant, USA)
- **Electrochemistry, Corrosion, and Interfaces in
High Temperature Water**
Invited Speakers: Dr. T. R. Allen (University of Wisconsin, USA)
Dr. S. Uchida (Japan Atomic Energy Agency, Japan)
Organizers: Dr. R. Svoboda (Alstom Power, Switzerland)
Prof. S. Lvov (Pennsylvania State University, USA)

- **Fuel Cells and Hydrogen Production**
Invited Speaker: Dr. S. C. Singhal (Fuel Cells Pacific Northwest
National Laboratory, USA)
Organizer: Prof. S. Lvov (Pennsylvania State University, USA)
- **Advanced Techniques and Instruments for Basic Research and Power
Plant Applications in High Temperature / High Pressure Water**
Invited Speaker: Dr. A. Molander (Studsvik AB, Sweden)
Organizer: Dr. S. Uchida (Japan Atomic Energy Agency, Japan)
- **Apparatus, Materials and Monitoring Instrumentation
for Applications at High Temperatures and Pressures**
Invited Speaker: Prof. M. Nakahara (Kyoto University, Japan)
Organizer: Prof. M. Ueno (Doshisha University, Japan)
- **Power Cycle Chemistry**
Organizer: M. Rziha (Siemens Power Generation, Germany)
- **Condensation and Deposition Processes**
Organizer: Dr. J. Bellows (Siemens Power Generation, USA)
- **High Efficiency Power Cycles and New Technologies**
Organizer: Prof. V. Scherer (Ruhr-University Bochum, Germany)
- **Environmental Issues in Power Generation**
Invited Speaker: Prof. N. Yamasaki (Osaka University, Japan)
Organizers: N. Okita (Toshiba Corporation, Japan)
Dr. G. Ewert (Ruhr-University Bochum, Germany)
- **Renewable Energy**
Invited Speaker: Dr. M. Roeb (German Aerospace Center, Germany)
Organizer: Dr. Ch. Sattler (German Aerospace Center, Germany)
- **Hydrothermal Geochemistry**
Invited Speaker: Prof. T. Seward (Swiss Federal Institute of Technology
Zürich, Switzerland)
Organizers: Dr. P. Tremaine (University of Guelph, Canada)
Dr. D. J. Wesolowski (Oak Ridge Natl. Lab., USA)
- **CO₂ in Power Generation –
Challenges in Capture, Transportation and Storage**
Invited Speaker: Prof. O. Bolland (Norwegian University of Science and
Technology, Norway)
Organizer: Prof. R. Span (Ruhr-University Bochum, Germany)
- **Thermophysical Properties of Sea Water – Importance for Global
Climatic and Oceanographic Modeling and Desalination**
Invited Speaker: Dr. T. J. McDougall (Commonwealth Scientific and
Industrial Research Organization, Marine and
Atmospheric Research, Australia)
Organizers: Dr. R. Feistel (Baltic Sea Research Institute, Germany)
Dr. R. Tailleux (University of Reading, United
Kingdom)
- **General Topics on Water, Steam and Aqueous Systems**
Organizer: Dr. B. Dooley (Structural Integrity Associates, Canada)
- **Workshop on homogeneous vapor-liquid nucleation in water**
Invited Speaker: Prof. R. Strey (University of Cologne, Germany)
Organizer: Dr. J. Hruby (Academy of Sciences of the Czech
Republic, Czech Republic)

Abstracts

Abstracts can be submitted at the conference website www.icpws15.de. The
deadline for abstract submission has been extended to 15. February 2008.

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