



ANS Winter Meeting & Expo

November 6-10, 2016 · Caesars Palace · Las Vegas, NV

EMBEDDED TOPICAL MEETING: HTR 2016

8th International Topical Meeting on High Temperature Reactor Technology

Abstract Deadline: March 15, 2016

Call for Papers

CONFERENCE CHAIRS

General Chair

Finis Southworth, *Areva*

Technical Program Chair

David Petti, *Idaho National Laboratory*

Assistant Technical Program Chairs

Margaret Harding, *Four Factor Consulting*

W. David Pointer, *Oak Ridge National Laboratory*

Farshid Shahrokhi, *Areva*

DEADLINES: NO EXCEPTIONS

Abstracts Due: March 15, 2016

Review Notification: April 15, 2016

Full Papers Due: June 15, 2016

Review Notification: July 31, 2016

Final Papers Due: August 31, 2016

SUBMIT PAPERS

All abstracts and papers must be submitted electronically using Adobe Acrobat (PDF) files or Microsoft word documents and the ANS Electronic Submission System. Papers must be written in English, authors are required to use the HTR2016 Template to prepare their full papers. www.ans.org/meetings/c_1

PAGE CHARGES

Page charges will be \$25.00 per page under 14 pages and \$40.00 per page over 14 pages for full papers.

Paper acceptance will be based upon originality of the work, strictly implemented methods or models, quality of results, impact of the scientific advances to the field of thermal hydraulics, conclusions supported by data, proper citing of references, and use of correct grammar and spelling. For more information about the meeting and technical program, visit <http://htrconference.org>

PROCEEDINGS COORDINATOR

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ABOUT THE MEETING

The International Topical Meeting on High Temperature Reactor Technology is the sole international conference focused on high-temperature gas-cooled reactor including heat application technology. Inaugurated in 2002 by the European High Temperature Reactor Technology Network HTR-TN at Petten, the Netherlands, successive meetings were held in Asia (Beijing, China, 2004), Africa (Johannesburg, South Africa, 2006), North America (Washington DC, USA, 2008), Europe (Prague, Czech Republic, 2010), Asia (Tokyo, Japan, 2012 and Weihai, China, 2014). The attendees included experts from research and industry and decision makers of interest including utilities, user industries, nuclear vendors and governments.

HTR2016 aims to accelerate research and development on HTGR and heat application technologies, and make practical use of HTGR systems, through discussing and exchanging on the latest results and information on the above technologies and user requests as well as future perspectives and plans.

This embedded topical meeting will provide a forum for sharing of peer-reviewed, full-length technical papers covering recent advances in high temperature reactor technology. Authors and presenters are invited to participate in this event to exchange ideas and knowledge.

2016 ANS Winter Meeting and Expo

Embedded Topical Meeting: HTR 2016 · 8th International Topical Meeting on High Temperature Reactor Technology

RELEVANT TOPICS BY TRACK

Technical Track-1: National Research Programs and Industrial Projects

- Specific Program and Project Development
- Plant and Equipment Development and Construction
- Operating Experience
- Test facilities and Results

Track Cochairs

Carl Sink (US DOE)
Michael Fuetterer (EU)

Technical Track-2: Industrial Applications and Markets

- Design, Engineering and Testing
- Analytical Methodology
- Industrial Process Heat
- Hydrogen Production
- Desalination
- Other Applications

Track Cochairs

Lew Lommers (AREVA)
Michael Fuetterer (EU)

Technical Track-3: Fuel and Waste

- Fuel Design
- Fabrication
- Safety and Qualification
- Irradiation and PIE
- Modeling and Simulation
- Waste Management

Track Cochairs

Paul Demkowicz (INL)
John Hunn (ORNL)

Technical Track-4: Materials and Components

- Metallic Material Properties and Performance
- Non-Metallic Material Properties and Performance
- Corrosion at High Temperature
- Effect of Irradiation
- Major Component Design (Circulators, Hot Gas Ducts, Steam Generators, Heat Exchangers, etc.)
- Modeling and Simulation

Track Cochairs

Richard Wright (INL)
Manuel Pouchon (EU-PSI, Switzerland)

Technical Track-5: Reactor Physics Analysis

- Nuclear Data
- Modeling and Simulation
- Reactor Physics Methods and Codes
- Fuel/Core Designs

Track Cochairs

Hans Gougar (INL)
Frederick Reitsma (IAEA)

Technical Track-6: Thermal-hydraulics, Structural and Multiphysics Analyses

- Thermophysical Property Data
- Fluid Dynamics Methods and Codes
- Heat Transfer Methods and Codes
- Transient and Accident Analysis Methods and Codes
- Structural Methods and Codes
- Multi-physics Methods and Codes
- Natural and Mixed Convection
- Radiation Heat Transport
- Fission and Activation Product Transport
- Thermal Striping and Stratification
- Flow Induced Vibration
- Thermal Hydraulics of Key Components
- Fuel Element, Assembly and Core Designs

Track Chair

Yassin Hassan (TAMU)

Technical Track-7: Development, Design and Engineering

- Progress in New Generation Reactor Designs
- Plant Dynamics and Control
- System and Facility Design
- Economic Assessment
- Construction Methods and Experience

Track Cochairs

Lew Lommers (AREVA)
Xing Yan (JAEA)

Technical Track-8: Safety and Licensing

- Safety Design and Analysis
- Accident Analysis and Protection
- Seismic Analysis and Protection
- Source Term Evaluation
- Passive Safety Concepts
- Advanced Safety Concepts
- Licensing Strategies
- Licensing Application and Development Status

Track Cochairs

Farshid Sharoki (AREVA)
Jim Kinsey (INL)