Call for Papers

CONFERENCE CHAIRS

General Chair
Amir Shahkarami, CEO, Exelon Nuclear Partners/Senior VP, Exelon Generation

Technical Program Chair
Ray Klann, Argonne National Laboratory

Assistant Technical Program Chairs
Eric Burgett, Georgia Institute of Technology
Patrick Pinhero, University of Missouri, Columbia

DEADLINES: NO EXCEPTIONS

AUTHOR NOTIFICATION OF ACCEPTANCE: By February 28, 2012
REVISED SUMMARIES DUE: March 13, 2012

FORMAT

Authors are now REQUIRED to use theANS Template and “Guidelines for TRANSACTIONS Summary Preparation” provided on the ANS Web site. Summaries must be submitted electronically using Adobe Acrobat (PDF) files and original Microsoft Word documents and the ANS Electronic Paper Submission and Review System. Summaries not based on the ANS Template will be REJECTED.

GUIDELINES FOR SUMMARIES

Please submit summaries describing work that is NEW, SIGNIFICANT, and RELEVANT to the nuclear industry. ANS will publish all accepted summaries in the TRANSACTIONS. Papers are presented orally at the meeting, and presenters are expected to register for the meeting. Completed papers may be published elsewhere, but the summaries become the property of ANS. Under no circumstances should a summary or full paper be published in any other publication prior to presentation at the ANS meeting. It is the author’s responsibility to protect classified or proprietary information.

CONTENT

1. Introduction: State the purpose of the work.
2. Description of the actual work: Must be NEW and SIGNIFICANT.
3. Results: Discuss their significance.
4. References: If any, must be closely related published works.
5. Do not present a bibliographical listing.

LENGTH

1. The minimum length is one full page.
2. The maximum length is four pages, including references, tables, and figures.
3. Limit title to ten words; limit listing authors to three or fewer if possible.

PAGE CHARGE

ANS charges $100 per final printed page (prorated) in the TRANSACTIONS. Authors should be prepared to provide their purchase order numbers when submitting their summaries electronically.

REQUIRED TEMPLATE AND “GUIDELINES FOR TRANSACTIONS SUMMARY PREPARATION”:

www.ans.org/pubs/transactions

SUBMIT A SUMMARY:

www.ans.org/meetings

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ANS 2012 Annual Meeting: Session Titles by Division

1. Accelerator Applications (AAD)
   1a. Accelerators and Detectors Used in Medical Therapy
   1b. Acceleration Applications: General

2. Aerospace Nuclear Science and Technology (ANSTD)
   2a. Aerospace Nuclear Science and Technology: General

3. Biology and Medicine (BMD)
   3a. Isotopes for Medicine
   3b. Modeling and Simulation of Brachytherapy Sources
   3c. Proton Imaging Technology for Proton Therapy
   3d. Biology and Medicine: General

4. Education, Training, and Workforce Development (ETWDD)
   4a. Bridging the Gap Between Policy and Technology in Education and Training
   4b. Research by U.S. DOE NEUP-Sponsored Students
   4c. Workforce Development for U.S. Nuclear Forensics Programs—Panel
   4d. Innovations in Education, Training, and Distance Learning
   4e. Nuclear Technician Education and Training
   4f. Education, Training, and Workforce Development: General

5. Environmental Sciences (ESD)
   5a. Environmental Monitoring at Nuclear Facilities
   5b. Advances in Environmental Monitoring Techniques
   5c. Current Issues in Decommissioning and Environmental Restoration
   5d. Environmental Aspects of New Site Selection
   5e. Modeling of the Transport of Materials in the Environment
   5f. Environmental Aspects of Spent Fuel Storage
   5g. Environmental Aspects of the Transportation of Radioactive Materials
   5h. Use of Nuclear Energy for Desalination, Process Heat, and Space Heating
   5i. Environmental Benefits and Impacts, Life-Cycle Studies and External Costs of Nuclear and Various Energy Technologies
   5j. Emergency Planning and Preparedness
   5k. Contributions of Nuclear Science and Technology to Sustainable Development
   5l. Environmental Sciences: General

6. Fuel Cycle and Waste Management (FCWMD)
   6a. Development of Advanced Fuel Recycle Methods
   6b. Nuclear Nonproliferation and International Safeguards
   6c. Off-Gas Separation and Immobilization
   6d. Quantitative Methods for Nuclear Nonproliferation
   6e. Used Fuel Component Recycle to Minimize Wastes and Recover Valuable Materials
   6f. Fuel Cycle and Waste Management: General

7. Fusion Energy (FED)
   7a. Fusion Energy: General

8. Human Factors, Instrumentation, and Controls (HFICD)
   8a. Human Factors, Instrumentation, and Controls: General

9. Isotopes and Radiation (IRD)
   9a. University Research Reactors and Nuclear Science Programs
   9b. Radiation Measurement and Analysis in Nuclear Materials Protection, Accountability, and Control
   9c. Innovations in Radiation Detectors: New Designs, Improvements, and Applications
   9d. Isotopes and Radiation: General

10. Mathematics and Computation (MCD)
    10a. Computational Methods: General
    10b. Current Issues in Computational Methods—Roundtable

11. Nuclear Criticality Safety (NCSD)
    11a. Advancing Criticality Safety Capabilities in a Growing Nuclear World
    11b. ANS-8 Nuclear Criticality Safety Standards Forum
    11c. Benchmarking Experiments for Criticality Safety and Reactor Physics Applications
    11d. Data Analysis in Nuclear Criticality Safety

12. Nuclear Installations Safety (NISD)
    12b. Development of a Fault Injection-Based Test Methodology for Digital Systems
    12c. Emerging Issues in Nuclear Facility Safety
    12d. Generic Issue 199, “Implications of Updated Probabilistic Seismic Hazard Estimates in Central and Eastern United States on Existing Plants”
    12e. High-Density Polyethylene Piping for Safety-Related Nuclear Power Plant Applications
    12f. Human Factors Review Guidance Updates
    12g. Irradiation Assisted Degradation of Reactor Vessel Internals / NRC-Sponsored Environmentally Assisted Fatigue Research Activities
    12h. Learning from Digital System Experience (Oconee and others)
    12i. NRC Emergency Preparedness and Planning (based on Task Force on Fukushima)—Panel
    12j. NRC’s International Regulatory Development Partnership
    12k. Reclassification of Depleted Uranium and Natural Uranium
    12l. Nuclear Installations Safety: General

13. Operations and Power (OPD)
    13a. Advanced /Gen-IV Reactors
    13b. Next Generation Nuclear Plant—Advances and Innovations
    13c. The International Framework for Nuclear Energy Cooperation—Advances and Innovations
    13d. Operations and Power: General
    13e. SMR: Progression and Status
    13f. New Nuclear Construction Around the World—Status Report
    13g. Young Blood: Integration and Retention of the Next Generation Nuclear Workforce—Panel

14. Radiation Protection and Shielding (RPSD)
    14a. Radiation Protection and Shielding: General

15. Reactor Physics (RPD)
    15a. Reactor Analysis Methods
    15b. Reactor Physics Design, Validation, and Operating Experience
    15c. Initial Experience with ENDF/B-VII.1
    15d. ENDF/B-VII.1: Data Measurements, Evaluation, and Processing
    15e. Experiences and Challenges in RERTR Core Redesign
    15f. Research Applications of Neutron Spectrometry and Dosimetry
    15g. Current Issues in LWR Core Design and Reactor Engineering Support
    15h. Hybrid Monte Carlo Deterministic Methods for Reactor Analysis
    15i. Reactor Physics: General


17. Thermal Hydraulics (THD)
    17a. Computational Thermal Hydraulics
    17b. General Two-Phase Flow
    17c. Thermal Hydraulics in Severe Accidents
    17d. Thermal Hydraulics in Rod Bundles
    17e. Thermal Hydraulics of Used Fuel and Fuel Storage
    17f. Next Generation Safety Analysis Code (Invited)
    17g. Thermal Hydraulics: General
EMBEDDED TOPICAL MEETING: DD&R 2012
June 24–28, 2012 • Chicago, IL • Hyatt Regency Chicago

EMBEDDED TOPICAL MEETING CHAIRS
General Chair
Patrick Daly, General Manager, Zion Solutions

Technical Program Chair
Sue Aggarwal, President, New Millennium Nuclear Technologies International

Assistant Technical Program Chair
James Byrne, Principal, Byrne & Assoc., LLC

PAPER DEADLINES
SUBMISSION OF SUMMARIES: October 1, 2011—January 13, 2012
AUTHOR NOTIFICATION OF ACCEPTANCE: By March 2, 2012
REVISED SUMMARIES DUE: March 16, 2012

SUMMIT SUMMARIES
Use the ANS Template and “Guidelines for TRANSACTIONS Summary Preparation” provided at www.ans.org/pubs/transactions. ANS will publish all accepted summaries in the Topical Meeting Proceedings for the meeting. Submit summaries via the ANS website (www.ans.org/meetings).

ABOUT THE MEETING
The ANS Topical DD&R Meeting is a forum for the discussion of the social, regulatory, scientific, and technical aspects of decommissioning, decontamination, and reuse, and waste management. The 2012 conference program will include commercial, government, and international project updates as well as present project management, technology, and regulatory developments in the areas of decommissioning, waste management, site closure, and legacy management.

TOPICS
Project Track:
DOE Projects; Commercial Nuclear Plants Decommissioning Projects; International Decommissioning; EPA/DoD Projects; Fast Reactor Decommissioning Projects: Site and Building Remediation/Rehabilitation; NORM/UMT/Smaller Nonreactor Issues/Projects; Stakeholder Involvement; Accident Cleanup.

Technology Track:
Low Level Radioactive Waste Management; Groundwater Issues Monitoring and Remediation; Waste Management Technology Developments; Decommissioning and Decontamination Technology Developments; Final Status Survey and Radiation Measurement Technology Developments; Other Innovative Technologies and Feedback Experience; MARSSIM/Site Release/LT/FSS/Geostatistical Approach; Dose Modeling/RESRAD/D&D; Regulatory Infrastructure for Technology Development.

Regulatory, Lessons Learned Track:
Capturing Best Practices and Other Lessons Learned; Project Infrastructure and Regulatory Criteria; Environmental Issues in Decommissioning; State Regulatory Issues that can Affect Decommissioning; Long-Term Surveillance and Maintenance of DOE and Commercial Facilities; Regulatory Infrastructure Long Term Surveillance and Maintenance of Sites; SAFSTOR, Entombment, and Spent Fuel Storage; Reutilization of Closed Sites/Facilities; Stakeholder Involvement/Public Relations; Records Management; Contracts Management.
Embedded Topical Meeting: Nuclear Fuels and Structural Materials for the Next Generation Nuclear Reactors (NFSM 2012)

EMBEDDED TOPICAL MEETING:
Nuclear Fuels and Structural Materials for the Next Generation Nuclear Reactors (NFSM 2012)
June 24–28, 2012 • Chicago, IL • Hyatt Regency, Chicago

EMBEDDED TOPICAL MEETING CHAIRS
GENERAL CHAIRS
Todd Allen, University of Wisconsin
Lance Snead, Oak Ridge National Laboratory

TECHNICAL PROGRAM CHAIRS
Jacob Eapen, North Carolina State University
K. L. Murty, North Carolina State University
Heather J. MacLean Chichester, Idaho National Laboratory

PAPER DEADLINES
SUBMISSION OF SUMMARIES: By January 11, 2012
AUTHOR NOTIFICATION: By February 29, 2012

SUBMIT SUMMARIES
Summaries must be submitted using the ANS Electronic Submission System. Authors are required to use the ANS Template and “Guidelines for Transactions Summary Preparation” provided on the ANS Web site.

ABOUT THE MEETING
NFSM 2012 will bring together a group of materials experts from the industry, academia, and national laboratories to discuss the current research and development in the nuclear materials field.

The meeting will cover a wide spectrum of topics ranging from investigation of fuels and materials deformation at picoseconds to very slow aging of concrete and structural materials.

Summaries submitted to NFSM 2012 will be reviewed and published on a CD-ROM available at the meeting. Publication of full papers in a special issue of Journal of Nuclear Materials is anticipated. A limited number of submissions are scheduled for oral presentations, while the majority of technical presentations of NFSM 2012 are planned to be held in a poster session. At least one author is required to register for the topical meeting.

TOPICS
1. Fast Reactor Cladding and Duct Materials
2. Advanced Cladding (Including Alternatives to Zr Alloys)
3. Advanced Fuel
4. Spent Fuel and Interim Storage
5. Concrete
6. Materials Under Extreme Environment
7. High Temperature Materials for Nuclear Applications
8. Atomistic and Microstructure Modeling
9. Reprocessing
10. Fukushima Accident:
   a. Materials perspective
   b. Policy

Embedded Topical Meeting: International Congress on Advances in Nuclear Power Plants (ICAPP 2012)

EMBEDDED TOPICAL MEETING:
International Congress on Advances in Nuclear Power Plants (ICAPP 2012)
June 24–28, 2012 • Chicago, IL • Hyatt Regency Chicago

EMBEDDED TOPICAL MEETING CHAIRS
HONORARY CHAIR
Susan Landahl, Exelon Nuclear

TECHNICAL PROGRAM CHAIR
Luca Oriani, Westinghouse Electric Company

PAPER DEADLINES
ABSTRACT SUBMISSION DEADLINE: October 15, 2011
ABSTRACT ACCEPTANCE: November 30, 2011
DRAFT PAPERS: January 15, 2012
REVIEW NOTIFICATION: February 28, 2012
FINAL PAPERS/COPYRIGHT: March 30, 2012

SUBMIT ABSTRACTS
By October 15, 2011 authors should submit a one-page 500-word abstract (text only) with contact information and preferred track number at www.icapp.ans.org or to icapp@icapp.ans.org

TOPICS
1. Water-Cooled Reactor Programs and Issues
2. High Temperature Reactors
3. Advanced Reactors
4. Operation, Performance, and Reliability Management
5. Plant Safety Assessment and Regulatory Issues
6. Reactor Physics and Analysis
7. Thermal Hydraulics Analysis and Testing
8. Fuel Cycle and Waste Management
9. Materials and Structural Issues
10. Nuclear Energy and Global Environment

ABOUT THE MEETING
ICAPP provides a forum for leaders of the nuclear industry to exchange information, present results from their work, review the state of the industry, and discuss future directions and needs for the deployment of new nuclear power plant systems around the world. ICAPP will gather industry leaders in several invited lectures in plenary sessions.