ANS Winter Meeting & Expo

2017

Call for Papers

Generations in Collaboration:
Building for Tomorrow

October 29-November 2, 2017
Washington, D.C.
Marriott Wardman Park

2017 Winter Meeting

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CALL FOR PAPERS

Generations in Collaboration: Building for Tomorrow

CONFERENCE CHAIRS:

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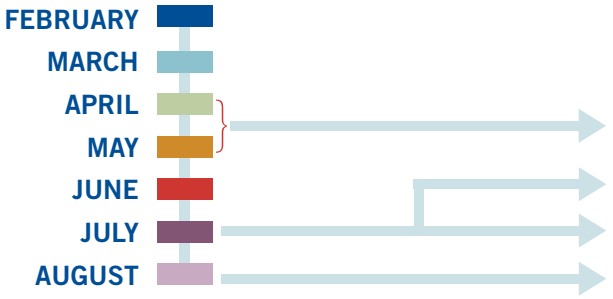
SUMMARY DEADLINE: MAY 31, 2017



SUBMISSION OF SUMMARIES: **April 1, 2017-May 31, 2017**

SUBMISSION OF DESCRIPTION AND PANELISTS/SPEAKERS FOR PREVIEW: **July 17, 2017**

AUTHOR NOTIFICATION OF ACCEPTANCE: **July 28, 2017**

REVISED SUMMARIES DUE: **August 14, 2017**

FORMAT

Authors are now REQUIRED to use the ANS Template and Guidelines for TRANSACTIONS Summary Preparation provided on the ANS Web site. Summaries must be submitted electronically using Adobe Acrobat (PDF) files or 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. Minimize the number of references.
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 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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2017 WINTER MEETING: SESSION TITLES BY DIVISION

(P) = Panel

1. ACCELERATOR APPLICATIONS (AAD)

1a. Accelerator Applications: General

2. AEROSPACE NUCLEAR SCIENCE AND TECHNOLOGY (ANSTD)

2a. Aerospace Nuclear Science and Technology: General

3. BIOLOGY AND MEDICINE (BMD)

3a. Radiation Therapy, Standards, and Effects

4. DECOMMISSIONING AND ENVIRONMENTAL SCIENCES (DESD)

4a. U.S. Environmental Protection Agency Superfund Radiation Risk Assessment Calculator Training
4b. Ongoing Nuclear Decommissioning Projects in U.S. and Canada: An Executive Leadership (P)
4c. Decommissioning Rulemaking Committee (P)
4d. International Decommissioning (P)
4e. DOE Decommissioning (P)

5. EDUCATION, TRAINING, AND WORKFORCE DEVELOPMENT (ETWDD)

5a. Student Design Competition
5b. Education, Training and Workforce Development: General
5c. Cutting Edge Techniques in Education, Training and Distance Education
5d. Focus on Communications—I (P)
5e. Focus on Communications—II (P)
5f. Innovations in Nuclear Technology R&D Awards
5g. Research by the U.S. DOE NEUP Sponsored Students
5h. Best of ANS Student Conference

6. FUEL CYCLE AND WASTE MANAGEMENT (FCWMD)

6a. Molten Salt Processing—Online Processing Redox
6b. Yucca—Technical Assessments (P)
6c. Used Fuel Management Status (P)
6d. Fuel Cycle Analysis
6e. Technical Grand Challenges for Fuel Cycle and Waste Management (P)
6f. Progress in DOE's Nuclear Technology Research and Development Program (P)
6g. Medical/Industrial Isotope Recovery from Recycling of UNF
6h. Updates on Transportation Activities for Used Nuclear Fuel
6i. R&D HOT Cells—Why we Need Them, Current and Future Status and Key Challenges (P)
6j. Fuel Cycle and Waste Management: General
6k. Commercializing New Reactor Technologies—Fuel Cycle Implications and Challenges
6l. Blue Ribbon Commission Assessments—5yrs Later (P)
6m. The Waste Isolation Pilot Plant
6n. Addressing the Challenge of Advanced Reactor Commercialization
6o. Challenges Related to Integrating the Back End of the Fuel Cycle

7. FUSION ENERGY (FED)

7a. Reactors and Advanced Nuclear Systems using Thorium-Based Fuels
7b. High-Temperature Materials in Advanced Reactors, Gen-IV, Fusion and Accelerator Systems
7c. Thermal-Hydraulics in Advanced Reactors, Gen-IV, Fusion and Accelerator Systems
7d. Neutronics/Physics Modeling and Design in Gen-IV, Fusion and Accelerator Systems
7e. Advanced Materials for Nuclear Reactors, Fusion Systems, and Accelerator Applications
7f. Best of 2016 TOFE—Technology Update
7g. Research Opportunities in Advanced Fission and Fusion Materials

8. HUMAN FACTORS, INSTRUMENTATION, AND CONTROLS (HFICD)

8a. Human Factors, Instrumentation, and Controls: General

9. ISOTOPES AND RADIATION (IRD)

9a. Advancements in Radiation Measurement and Imaging Technology
9b. Production and Applications of Isotopes and Radiation

10. MATERIALS SCIENCE AND TECHNOLOGY (MSTD)

10a. Transient Fuel Performance
10b. Advanced Manufacturing
10c. Post-Irradiation Examination
10d. Advanced Measurement Techniques
10e. Nuclear Science User Facilities (P)
10f. Nuclear Fuels and Materials in Fast Reactors
10g. Accident Tolerant Fuels
10h. Nuclear Fuels
10i. Materials Aging in Nuclear Plant Operations (metals, concrete, cables, condition monitoring, etc.)
10j. Materials Aging in Nuclear Fuel Storage (aging fuels management, cask degradation, etc.)

11. MATHEMATICS AND COMPUTATION (MCD)

11a. Advanced Methods for Reactor Transient Analysis
11b. Uncertainty Quantification and Sensitivity Analysis
11c. Mathematical Modeling
11d. Computational Methods
11e. Transport Methods
11f. Current Issues in Computational Methods–Roundtable

12. NUCLEAR CRITICALITY SAFETY (NCSD)

12a. Current Spent Fuel Pool Nuclear Criticality Safety Issues for NRC Licensees
12b. ANS-8 Poster Session
12c. Recent Nuclear Criticality Safety Program Technical Accomplishments
12d. ANS-8 Standards Forum
12e. Data, Analysis and Operations in Nuclear Criticality Safety
12f. Past, Present and Future Methods in International Criticality Safety Assessment

13. NUCLEAR INSTALLATIONS SAFETY (NISD)

13a. Digital I&C Cyber Security Research
13b. Standardized Safety Design Considerations for Advanced Reactors
13c. NRC Level 3 PRA
13d. Technical Approach for Defense in Depth for Advanced Reactors
13e. Highlights from PSA 2017
13f. Nexus Between Ethics and Nuclear Safety Culture
13g. Emergent Topics in Consensus Standards
13h. Current Topics in Probabilistic Risk Analysis
13i. Nuclear Installations Safety: General
13j. Technical Issues with Proposed Revision to NRC Regulatory Guide 1.59, "Design Basis Floods for Nuclear Power Plants"

14. NUCLEAR NONPROLIFERATION POLICY (NNPD)

14a. Best of Paper Session from ANTPC
14b. Critical and Subcritical Experiments
14c. Advancing Global Nuclear Energy and Strengthening National Security (P)
14d. Eisenhower Award Special Session (P)
14e. Nuclear Nonproliferation Policy: General

2017 WINTER MEETING: SESSION TITLES BY DIVISION

15. OPERATIONS AND POWER (OPD)
15a. Nuclear Hybrid Energy Systems
15b. Thermal Energy Storage Systems and their Integration with NPPs
15c. Water Chemistry of Nuclear Reactor Systems
15d. New Nuclear Construction around the World—Status Report
15e. Advanced/Gen-IV Reactors
15f. The DNP Initiative for U.S. Nuclear Power Plants (P)
15g. The GAIN Initiative for Advanced Nuclear Power Plants (P)
15h. Operations and Power: General
15i. Human Resources and Personnel—Qualification and Financial Challenges for Nuclear Infrastructure

16. RADIATION PROTECTION AND SHIELDING (RPSD)
16a. Radiation Protection and Shielding: General
16b. Computational Tools for Radiation Protection and Shielding
16c. Advanced Reactors/SMR Shielding and Dose Assessment Evaluations
16d. A Survey of Charged Particle Transport: Codes and Applications
16e. Radiation Protection and Shielding–Roundtable

17. REACTOR PHYSICS (RPD)
17a. Reactor Physics: General
17b. Reactor Analysis Methods
17c. Reactor Physics Design, Validation and Operational Experience
17d. Reactor Physics Challenges in Molten Salt Reactor Design
17e. U.S. and UK International Collaboration on Nuclear R&D
17f. Reactor Physics Challenges in Molten Salt Reactor Design (P)
17g. Reactor Physics Challenges in Current LWRs Fleet (P)

18. ROBOTICS AND REMOTE SYSTEMS (RRSD)
18a. Robotics in Hazardous Environments

19. THERMAL HYDRAULICS (THD)
19a. Thermal Hydraulic Collaborations in Industry, Academia and Labs (P)
19b. Thermal Hydraulics in Non-Power Applications
19c. Thermal Hydraulics of Advanced Reactors
19d. Computational Thermal Hydraulics
19e. Thermal Hydraulics for Nuclear Space Applications (P)
19f. Showcase of Thermal-Hydraulics Experimental Capabilities in the U.S.
19g. Severe Accident Modeling and Experiments for Advanced Reactor Safety
19h. Two-Phase Flow Fundamentals
19i. Experimental Thermal Hydraulics
19j. Computational Thermal Hydraulics
19k. General Thermal Hydraulics
19l. Young Professional Thermal-Hydraulic Research Competition

2017 WINTER MEETING: TECHNICAL DIVISIONS

ACCELERATOR APPLICATIONS (AAD)
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ANS Embedded Topical

October 28, 2017 | Washington, D.C. | Marriott Wardman Park

CALL FOR PAPERS

Young Professionals Congress 2017

EMBEDDED TOPICAL MEETING CHAIRS:

General Chair
Brett Rampal, NuScale Power, LLC

Technical Program Chairs
Jitesh Kuntawala, Duke Energy
Catherine Perego, Westinghouse Electric Co.

MEETING HIGHLIGHTS

- Gain Insights into the Major Policy and Economic Issues Impacting the Nuclear Industry
- Boost your Career with Advice from Successful Young Professionals Representing Academia, National Labs and Industry
- Network with ANS Division and NAYGN Experts and Leaders
- Learn the Latest on a Broad Range of Topics including:
    - Nuclear Advocacy
    - Advanced Reactors
    - Analysis Codes
    - Regulatory Roles and Interfaces
    - Effective Communication
    - Getting the Most out of a Professional Society

  Have fun at the post-YPC social event
- Anyone interested in participating can contact Brett Rampal at brett.rampal@gmail.com.