ANS CALL FOR PAPERS

2026 ANS WINTER CONFERENCE

November 15-18, 2026 | Phoenix, AZ | Arizona Grand Resort & Spa

EXECUTIVE CHAIRS

Technical Program Chair:
Xiaodong Sun

Assistant Technical Program Chairs:
Miltos Alamaniotis (Univ. Texas, San Antonio)
Igor Bolotnov (NCSU)

SUBMIT A SUMMARY

https://apps.ans.org/esr/event-wc2026/

PROGRAM SPECIALIST

Isabel Brinker
708-579-8290 | epsr@ans.org

IMPORTANT DEADLINES

SUBMISSION OF SUMMARIES OR ABSTRACTS (NO EXTENSIONS)
Friday, June 26, 2026

AUTHOR NOTIFICATION OF ACCEPTANCE
Monday, July 20, 2026

REVISED SUMMARIES OR ABSTRACTS DUE
Friday, August 7, 2026

GUIDELINES FOR SUBMISSION

Please submit summaries or abstracts describing work that is new, significant, and relevant to the nuclear industry. ANS will publish all accepted and presented summaries in the TRANSACTIONS. Submitted abstracts will not be published. Summaries and abstracts are presented orally at the conference, and presenters are expected to register for the conference. Non–U.S. attendees requesting a visa invitation letter: registrar@ans.org. Full papers based on summaries may be published elsewhere, but the summaries become the property of ANS. Under no circumstances should a summary or abstract be published in any other publication before presentation at the ANS conference. It is the author's responsibility to protect classified, export-controlled, or proprietary information. Submit your summary or abstract via the ANS Electronic Paper Submission and Review (EPSR) portal; see link on the left.

SUMMARY FORMAT AND LENGTH

1. Use the ANS Template and Guidelines for TRANSACTIONS Summary Preparation provided on the 2026 Winter home page. Summaries that are not based on the ANS template will be rejected.
2. Summaries must be submitted as Adobe Acrobat PDF documents.
3. The minimum length is one full page.
4. The maximum length is four pages, including references, tables, and figures. Do not include a cover page. After you save your document as a PDF, verify that it is still four or fewer pages.
5. Do not use all capital letters for the title or any part of any authors' names. For the title of the summary, Capitalize the First Letter of Major Words. Author names should be First Name or Initial(s) followed by Last Name.
6. Limit title to ten words; limit listing of authors to three or fewer if possible.
7. The names of all authors should be entered into the Authors page in the EPSR. List the authors in the same order in which their names appear on the summary. The conference program will be derived from the information you enter into the EPSR.
8. In the EPSR, authors' affiliations should match the affiliation provided on the summary itself. If an author has multiple affiliations, enter the ONE that should be included in the program and TRANSACTIONS.
9. Do not use page numbers, headers, or footers. Do not save your PDF as "read only."
10. Keep the bottom margin clear so there is space for the ANS-applied footer and page number.

ABSTRACT FORMAT

- All tracks and sessions at Winter 2026 will accept abstracts for presentation at the conference. Abstracts will NOT be published in TRANSACTIONS.
- Maximum of one page identifying title, authors, affiliations, and three paragraphs (total fewer than 500 words) describing high level content. The abstract template is on the Annual home page. Additionally, please follow these formatting/submittal guidelines:
- Do not use all capital letters for the title or any part of any authors' names. For the title of the abstract,
- Capitalize the First Letter of Major Words. Author names should be First Name or Initial(s) followed by Last Name.
- The names of all authors should be entered into the Authors page in the Electronic Paper Submission and Review (EPSR) system. List the authors in the same order in which their names appear in the abstract.
- Author information in the conference program is derived from the entries in the EPSR's Authors page.
- In the EPSR, authors' affiliations should match the affiliation provided in the abstract itself. If an author has multiple affiliations, enter the ONE that should be included in the program, assuming the abstract is accepted.
- If accepted, abstracts will result in a 20-minute presentation at the conference.

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.
6. If a disclaimer is required (e.g., related to the author's employer), it is the author's responsibility to include the disclaimer in the summary as either an end-of-summary note (preferred) or footnote. Please ensure such footnotes do not interfere with the bottom margin, and do not format disclaimers as headers or footers.

EXECUTIVE SESSIONS

Would you like to propose and arrange an Executive Session? If so, please submit via the Executive Track in the Electronic Paper Submission and Review (EPSR) system. Executive Sessions take a broader look at developments in nuclear science and technology and their impact on policy and markets.

ANS® CALL FOR PAPERS | 2026 ANS Winter Conference

November 15-18, 2026 | Phoenix, AZ | Arizona Grand Resort & Spa

SESSION TITLES BY DIVISION

(P) = Panel

1. ACCELERATOR APPLICATIONS (AAD)

1a. Isotope Production and Medical Applications
1b. Accelerator Facilities and Technology Development
1c. Radiation Effects and Related Applications
1d. Accelerator Applications in Industry and Security
1e. AI-Driven Accelerator Research, Teaching and Operations

2. AEROSPACE NUCLEAR SCIENCE AND TECHNOLOGY (ANSTD)

2a. Aerospace Nuclear Science and Technology: General

3. DECOMMISSIONING AND ENVIRONMENTAL SCIENCES (DESD)

3a. Decommissioning and Environmental Sciences: General
3b. Messaging to Match the Environment (P)
3c. Nuclear Maritime (P)

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

4a. Education, Training, and Workforce Development: General
4b. Office of Nuclear Energy Supported Student Presentations
4c. Distinguished Early Career Program for Early Career Faculty
4d. Innovations in Nuclear Research and Development Student Competition
4e. ANS Student Design Competition

5. FUEL CYCLE AND WASTE MANAGEMENT (FCWMD)

5a. Fuel Cycle and Waste Management: General
5b. Aerosol Source Terms Estimation and Transport
5c. University Research in Fuel Cycle and Waste Management
5d. Molten Salt Fuel Chemistry
5e. Advances in Fuel Recycle
5f. Automation and AI/ML Applications in Fuel Cycle and Waste Management
5g. Advanced Reactor Fuel Back-End Management and Disposition
5h. Innovative Methods in SNF Disposal R&D
5i. Scientific and Technical Advances in SNF Storage and Transportation
5j. Advances in Advanced Reactor Fuel Fabrication and Qualification (P)
5k. Center for Used Fuel Research: Mission, Priorities, and Impact (P)
5l. Domestic Fuel and Supply Chain Development: Progress, Gaps, and the Path Forward (P)

6. FUSION ENERGY (FED)

6a. Fusion Materials
6b. Blanket and Fuel Cycle
6c. Fusion Neutronics
6d. Advances in Fusion Technology and Supply Chain
6e. Fusion Policy and Safety
6f. Fusion Modeling and Simulation
6g. Fusion Education and Workforce Development

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

7a. Advances in Sensors and Instrumentation
7b. Advances in Human Factors Engineering
7c. Artificial Intelligence and Machine Learning for I&C and Human Factors
7d. Autonomous Control for Nuclear Plants
7e. Cybersecurity in Wireless Technologies, Digital I&C, Digital Twins, and Human Factors
7f. Digital Twins for Plant Operation and Maintenance
7g. Embedded Sensors and Additive Manufacturing for Nuclear Applications
7h. Human Reliability Analysis and Human-System Interface
7i. I&C for SMRs and Microreactors
7j. Human Factors for SMRs and Microreactors
7k. I&C for Space Nuclear
7l. I&C Regulations, Standards, Aging Management, and Guidelines
7m. Large Language Models and Foundation Models for Nuclear
7n. Online Monitoring, Diagnostics, and Prognostics
7o. Remote Monitoring and Operation of Nuclear Plants
7p. Risk-Informed Operation and Control
7q. Robotic and Drone Applications in Operation and Maintenance
7r. Structural Health Monitoring for Nuclear Plants
7s. Nuclear-Powered Data Centers: Installation and Operational Challenges (P)
7t. Regulation, V&V, and Ethical Considerations of AI for Nuclear (P)
7u. From R&D to Deployment: Implementing Advanced I&C and Human Factors Principles (P)
7v. Human Factors, Instrumentation, and Controls: General

8. ISOTOPES AND RADIATION (IRD)

8a. Isotopes and Radiation: General
8b. Neutron Flux Detection and In-Pile Instrumentation for Research Reactors, SMRs, and Microreactors
8c. Closing the Gap: Nuclear Forensics for Advanced Reactors and Emerging Threat Vectors

9. MATERIALS SCIENCE AND TECHNOLOGY (MSTD)

9a. Nuclear Fuels and Claddings
9b. Molten Salt Reactor Fuels and Materials
9c. Irradiation Experiments for Nuclear Materials and Fuels
9d. Advanced/Additive Manufacturing
9e. Environmental Degradation of Materials
9f. AI and ML Applications in Nuclear Materials Research
9g. High-Throughput Experimentation in Nuclear Materials
9h. Advanced Characterization and Simulation Techniques for Nuclear Materials
9i. Functional Materials for Fission Systems
9j. Universal Interatomic Potentials for Molten Salts & Nuclear Materials (P)

10. MATHEMATICS AND COMPUTATION (MCD)

10a. Transport Methods
10b. Computational Methods and Mathematical Modeling
10c. Uncertainty Quantification, Sensitivity Analysis, and Machine Learning
10d. Mathematics and Computation: General

11. NUCLEAR CRITICALITY SAFETY (NCSD)

11a. Data, Analysis and Operations in Nuclear Criticality Safety
11b. Critical and Subcritical Experiments
11c. Recent NCSP Technical Accomplishments
11d. Roadmap to High-Assay Low-Enriched Uranium (HALEU) Fuel for the Next-Generation Nuclear Reactors
11e. ANS 8 Standards Forum (P)
11f. Tom McLaughlin and his Impact on the Field (P)
11g. Roadmap to High-Assay Low-Enriched Uranium (HALEU) Fuel for the Next-Generation Nuclear Reactors (P)

12. NUCLEAR INSTALLATIONS SAFETY (NISD)

12a. Nuclear Installations Safety: General
See ARS embedded topical for more sessions.

13. NUCLEAR NONPROLIFERATION POLICY (NNPD)

13a. Nuclear Nonproliferation Policy: General
13b. Science, Technology, and Policy Advances in Nuclear Safeguards
13c. Nuclear Arms Control: Export Control, Treaty Verification, and Disarmament
13d. Nuclear Security, Nuclear Forensics, and Physical Protection

14. OPERATIONS AND POWER (OPD)

14a. Operations and Power: General
14b. Advanced Nuclear Reactors and Power Systems
14c. Energy Storage Integration with Nuclear Power Plants
14d. Hybrid and Integrated Energy Systems
14e. Nuclear Energy Markets, Financing, and Economics
See ICAPP embedded topical.

15. RADIATION PROTECTION AND SHIELDING (RPSD)

15a. Radiation Protection and Shielding: General

16. REACTOR PHYSICS (RPD)

16a. Reactor Analysis: General
16b. Reactor Physics Methods
16c. Advanced Reactor Analysis
16d. Advanced Reactor Methods

17. ROBOTICS AND REMOTE SYSTEMS (RRSD)

17a. Robotics and Remote Systems: General
17b. Robotics and Remote Systems (P)

18. THERMAL HYDRAULICS (THD)

See ATH embedded topical.

19. YOUNG MEMBERS GROUP (YMG)

19a. Bridging Generations in the Nuclear Workforce (P)
19b. Work-Life Balance in Nuclear (P)
19c. How I Built My Network (P)
19d. Mentorship in Action: Experiences From the ANS Mentor Match Program (P)
19e. Beyond Power: Nuclear Careers (P)
19f. Rad Talk (P)
19g. Making an Early Impact in Setting Nuclear Standards and Regulations (P)

TECHNICAL DIVISION LEADERSHIP

ACCELERATOR APPLICATIONS (AAD)
Yongqiang Wang, yqwang@lanl.gov

AEROSPACE NUCLEAR SCIENCE AND TECHNOLOGY (ANSTD)
Dianne Ezell, Nora.Ezell@inl.gov

DECOMMISSIONING AND ENVIRONMENTAL SCIENCES (DESD)
Dustin Miller, DMiller@TerranearPMC.com
Jim Byrne, jbyrne4424@comcast.net

EDUCATION, TRAINING, AND WORKFORCE DEVELOPMENT (ETWDD)
Kyle Hartig, hartig@mse.ufl.edu

FUEL CYCLE AND WASTE MANAGEMENT (FCWMD)
Kaushik Banerjee, kaushik.banerjee@inl.gov

FUSION ENERGY (FED)
Tommy Fuerst, Thomas.Fuerst@inl.gov
Paul Humrickhouse, humrickhoupw@ornl.gov
Lauren Garrison, lgarrison@cfs.energy

HUMAN FACTORS, INSTRUMENTATION, AND CONTROLS (HFICD)
Xingang Zhao, xzhao47@utk.edu

ISOTOPES AND RADIATION (IRD)
Igor Jovanovic, ijov@berkeley.edu
Kenan Unlu, K-unlu@psu.edu

MATERIALS SCIENCE AND TECHNOLOGY (MSTD)
Jake Quincey, quinceyj@oregonstate.edu
Kenneth Geelhood, Kenneth.Geelhood@pnnl.gov

MATHEMATICS AND COMPUTATION (MCD)
Koroush Shirvan, kshirvan@mit.edu
Majdi Radaideh, radaideh@umich.edu
Kendra Long, keadyk@lanl.gov

NUCLEAR CRITICALITY SAFETY (NCSD)
Ben Martin, benm15151@gmail.com
Amy Van Der Vyver, amy.vandervyver@sellafieldsites.com

NUCLEAR INSTALLATIONS SAFETY (NISD)
Yunfei Zhao, yzhao111@umd.edu
Mihai A. Diaconeasa, madiacon@ncsu.edu

NUCLEAR NONPROLIFERATION POLICY (NNPD)
Luis Ocampo Giraldo, luis.ocampogiraldo@nnsa.doe.gov
Angela Di Fulvio, difulvio@illinois.edu
Shikha Prasad, shikhapr@gmail.com

OPERATIONS AND POWER (OPD)
W. Neal Mann, wmann@anl.gov

RADIATION PROTECTION AND SHIELDING (RPSD)
Irina Popova, popovai@ornl.gov
Tucker McClanahan, mcclanahantc@ornl.gov

REACTOR PHYSICS (RPD)
Zeyun Wu, zwu@vcu.edu

ROBOTICS AND REMOTE SYSTEMS (RRSD)
Adam Carroll, carrollaj@ornl.gov
Young Park, ypark@anl.gov

THERMAL HYDRAULICS (THD)
Izabela Gutowska, izabela.gutowska@oregonstate.edu
Drew Ryan, Drew.Ryan1@unnpp.gov

YOUNG MEMBERS GROUP (YMG)
Anna Iskhakova, aiskh@ksu.edu
Fabiano Carvalho, fabiano.carvalho@asu.edu