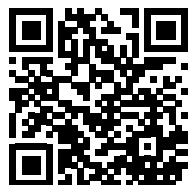


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**Don't Mess with Nuclear: Leading the Way**

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**AUTHOR NOTIFICATION  
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## **GUIDELINES FOR SUMMARIES AND ABSTRACTS**

Please submit summaries or abstracts describing work that is new, significant, and relevant to the nuclear field. This may include internship projects, senior design projects, and other student research. 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](mailto:registrar@ans.org).

1. Use the provided templates for summaries and abstracts under "[Resources](#)."
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Summaries should be a maximum of four (4) pages and a minimum of one (1) page; references, tables, figures, and acknowledgements are counted as pages.

## **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.
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## PRESENTATION OPTIONS

There are three options for submittal, using the ANS Electronic Paper Submission and Review (EPSR) portal:

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Standard-length presentations are 15-minute presentations with 5 minutes for questions at the end of the presentation. Standard-length presentations are intended to focus on the entirety of the research process including objectives, methodology, results, and analysis of findings in a specific technical track.

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Each format has a limited number of available spots, and selection for your preferred option is not guaranteed. You may indicate interest in other options in the case that you are not selected for your preferred option.

## TRACKS

### DECOMMISSIONING & ENVIRONMENTAL SCIENCES

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Focuses on the production and application of radioisotopes for medicine, industry, and research. Includes radiopharmaceutical development, diagnostic imaging, cancer therapies, and isotope delivery systems.

### NUCLEAR NONPROLIFERATION, SAFEGUARDS, & SECURITY

Covers efforts to prevent the spread of nuclear weapons and secure nuclear materials. Includes technologies and policies for monitoring, verification, international agreements, and physical protection.

### ADVOCACY, EDUCATION, & POLICY

Covers the societal, educational, and legislative aspects of nuclear technology. This track explores public engagement, nuclear policy development, curriculum innovation, and efforts to inform and influence stakeholders and lawmakers.

### MATERIALS SCIENCE & TECHNOLOGY

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### OPERATIONS & POWER

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### FUEL CYCLE & WASTE MANAGEMENT

Examines the entire nuclear fuel cycle—from mining and enrichment to reprocessing and disposal. Topics include spent fuel strategies, advanced fuel concepts, and long-term storage solutions for nuclear waste.

### MATHEMATICS, COMPUTATION, & AI APPLICATIONS

Emphasizes the role of computational tools and artificial intelligence in nuclear engineering. Topics include modeling and simulation, machine learning, uncertainty quantification, and high-performance computing applications.

### RADIATION PROTECTION & SHIELDING

Focuses on protecting workers, the public, and the environment from ionizing radiation. Topics include shielding design, dosimetry, ALARA principles, and radiation transport modeling.

### FUSION ENERGY & PLASMA PHYSICS

Highlights research and development in fusion power and high-temperature plasma physics. This track includes magnetic and inertial confinement approaches, diagnostics, reactor design, and plasma-material interactions.

### CRITICALITY SAFETY

Dedicated to preventing accidental criticality events in nuclear operations. This track includes analysis, experimental methods, standards, and regulatory compliance for systems containing fissile material.

### REACTOR PHYSICS

Examines the fundamental behavior of neutrons in reactor cores. Topics include neutron transport, core design, reactivity control, and reactor kinetics.

### INSTRUMENTATION, CONTROL SYSTEMS, & CYBERSECURITY

Covers technologies that ensure the safe and efficient operation of nuclear systems. Topics include sensors, data acquisition, automation, digital control, and protection against cyber threats in nuclear facilities.

### REACTOR SAFETY

Focuses on ensuring safe reactor design, operation, and emergency response. Topics include accident analysis, risk assessment, defense-in-depth, and safety system performance.

### SPACE & PROPULSION APPLICATIONS

Explores the use of nuclear systems for space missions. Includes nuclear thermal and electric propulsion, reactor designs for space power, and radiation shielding in space environments.

### THERMAL HYDRAULICS

Covers the transfer of heat and flow of fluids in nuclear systems. Topics include reactor cooling, phase-change phenomena, system modeling, and experimental validation.