



Advances in Nuclear Nonproliferation Technology and Policy Conference: Bridging the Gaps in Nuclear Nonproliferation

This conference seeks to build upon previous ANS topical conferences on nuclear fuel cycle technology, facility safeguards, and nonproliferation technology development. The goal is to stimulate conversation amongst nuclear science researchers, facilities operators, and policy makers, with an agenda that will include sessions on current trends in nuclear material and fuel cycle technology developments as they relate to safeguards, treaty verification, and broader nonproliferation policy. These sessions combined with panel discussions will provide a venue for discussions on relevant policy and technical needs in nonproliferation.



September 25-28th, 2016 • La Fonda on the Plaza Hotel • Santa Fe, NM

Co-sponsored by the Nuclear Nonproliferation Policy Division, Isotopes and Radiation Division, and ANS Trinity Section

◆ Featured Workshops ◆

- * *Uncertainty Quantification for Nondestructive Assay*
- * *MCNP6: Correlated Fission Capabilities and Detector Response Simulations with DRIFT*
- * *Social Media for Nonproliferation*

Topics of Interest

Nuclear Material Control and Accountability

- Nondestructive and Destructive Assay Methods
- Radiation Detection Applications
- International Safeguards Verification Technology

Nonproliferation Policy

- Future of Treaty Verification Regimes
- Proliferation Resistance and Risk Assessment
- State-Level Concept
- Fuel Cycle Analysis
- Strategic Trade Agreements

Mathematical Methods in Nonproliferation

- Statistical Methods in Nonproliferation
- Validation and Verification Methods
- Sensitivity and Uncertainty Analysis

Nuclear Nonproliferation and Safeguards Simulation and Modeling

- Application of Codes
- Enhancements to Nuclear Data

Nuclear Materials and the Fuel Cycle

- Challenges in Enrichment Verification
- Reactor Operations Verification
- Spent Nuclear Fuel Verification and Storage
- Isotope Production
- Security and Nonproliferation in Nuclear Fusion
- Advanced Fuel Cycles
- Weapons Useable Materials Minimization

Nuclear Facilities and Infrastructure

- Integrated Design of Facility Safeguards Systems
- Licensing and Construction of Nuclear Facilities and Interfaces with Safeguards

Nonproliferation Education and Training

- Human Capital Development
- International Training and Education
- University and Academic Initiatives
- Social Media and Outreach

Submission Deadline: April 1, 2016

Meeting Organizers and Chairs



Honorary Chair: Nancy Jo Nicholas (*LANL*)
General Co-Chair: Pratap Sadasivan (*LANL*)
General Co-Chair: Heather Dion (*LANL*)
Technical Program Co-Chair: Jill Cooley (*Y-12*)
Technical Program Co-Chair: Shaheen Dewji (*ORNL*)
Asst. General Chair: Alexis Trahan (*LANL*)
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Accommodations Chair: Alicia Swift (*LANL/UT*)
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Publicity Co-Chair: Samantha Winkle (*Univ. of Utah*)
Publicity Co-Chair: Nicholas Thompson (*RPI*)
International Liaison: Madison Andrews (*LANL*)
Student Chair: Mateusz Monterial (*U.Mich.*)

Submission Logistics

Submission of Summaries: December 1, 2015–April 1, 2016
Author Notification of Acceptance: May 15, 2016
Final Summaries Due: June 15, 2016

Format

Authors are required to use the ANS Template and “Guidelines for 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 Proceedings. 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.

Page Charges

Summaries are limited to a maximum of 4 pages in length. All submissions exceeding the 4-page limit will be charged \$100 per page.

Required Template and Guidelines for Summary Preparation Document:

www.ans.org/pubs/transactions

Contact: nnpd2016@gmail.com

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