

2026 North American Radiation Safety Symposium & Technical Exhibition Agenda

Sheraton Sand Key Resort
1160 Gulf Blvd., Clearwater, Florida, 33767, USA
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8:00 am - 5:00 pm EST Daily, January 13-15, 2026

North American Technical Center, Department of Nuclear, Plasma & Radiological Engineering,
The Grainger College of Engineering, University of Illinois
216 Talbot Laboratory, 104 S. Wright Street, Urbana, Illinois, USA 61801
(Contact Amy Keep, almoeller88@gmail.com +1 269 930 0753 or David W Miller dmiller@illinois.edu, +1 217 855 3238)

Symposium Theme – Understanding Change in the Nuclear Industry: Skillsets Needed to Embrace for New Regulatory Framework & New Reactor Designs/Operations

Monday, January 12, 2026

6:00 - 7:30 pm

Exhibitors' Welcome Reception to informally meet and greet attendees at restaurant across from Resort Lobby Registration

Schedule your flights early enough to enjoy a Welcome Reception by the Vendors providing you with the latest technology and consulting services.

Lite refreshments and Bar available for your convenience.

Opening Session:

Tuesday, January 13, 2026

* Selected Presentations contain Proprietary or Restricted Information. This information will not be available to attendees outside of the NATC Symposium presentation in accord with US Government Export/Import Regulations and Counterintelligence Service instructions to The Grainger College of Engineering, University of Illinois at Urbana-Champaign. Each attendee is requested to sign and return the NPRE Non-Disclosure Form for ALARA Symposia as in past years. (Please contact Prof. Rizwan Uddin, Head-NPRE, rizwan@illinois.edu, if you have any questions.)

7:00 am – 5:00 pm EST

Walk-in Registration

7:00 am – 8:00 am

Continental Breakfast

Session I, Day 1: World Class ALARA Achievements, Senior Management Perspectives on the Road Forward & RP Professional of the Year Recognition

Session Co-Chair: Joseph Jaegers, NATC Board Member & Dresden Clean Energy Center RPM, Constellation & David W. Miller, NATC Director, University of Illinois at Urbana-Champaign

Opening Session

8:00 am **Welcome**

8:05 am **Roll Call for All Attendees and Vendor Exhibitors**

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Tuesday, January 13, 2026 (continued)

- 8:15 am **Senior Management Perspectives on the USA Expansion of Nuclear Power & Nuclear Operations Challenges**
Hardik Patel, Site Vice President & Executive Sponsor of Fleet Radiation Protection Manager Peer Group, Dresden Clean Energy Center, Constellation, Illinois
- 9:00 am **Wolf Creek Successes in Developing New Technology to Meet Increased Energy Demand**
Eric Carlson, Plant Manager, Wolf Creek Nuclear Generating Station, Anergy, Kansas
2025 World Class ALARA Performance Award
Presented to Wolf Creek Nuclear Generating Station, Anergy
Representatives include Plant Manager, Joe Steward, RPM, & RP Staff
Presented by David W. Miller, The Grainger College of Engineering, University of Illinois at Urbana-Champaign
- 9:30 am **Reflections on Experiences as US NRC Health Physics Inspector**
John Cassidy, Senior Health Physicist, US NRC Region III, Naperville, Illinois
Presentation of 2025 Radiation Professional of the Year Awarded to John Cassidy by The Grainger College of Engineering, University of Illinois at Urbana-Champaign
- 10:00 am Coffee Break (Technology Exhibition Hall)
- 10:30 am **In-House 3D Printer Development for Custom Tungsten Shielding for Four Steam Generator Bowl Shielding Packages with Excellent Results**
Joe Steward, RPM, Wolf Creek Nuclear Generating Station, Anergy, Kansas
- 11:00 am **NEI RP Update: NRC Rulemaking Efforts and Regulator Oversight Process (ROP) Changes**
Michael Smith, Director Radiation Safety, Nuclear Energy Institute, Washington DC
- 11:45 am **Group Photo**
- 12:00 am **Lunch** (provided by vendors)
- Session II, Day 1, ALARA Achievements in Work Management**
Session Chair: Robin Rodriguez, Radiation Operations Superintendent, Susquehanna, Talen Energy
- 1:30 pm **Effective RP and Chemistry Partnerships to Achieve Excellence in Operations & Plant Reliability**
Bert Engstrom, RPM, Palo Verde, APS, Arizona
- 2:00 pm **Dresden Fall Refueling Outage Challenges & Successes**
Joseph Jaegers, RPM, Dresden Clean Energy Center, Constellation, Illinois
- 2:30 pm Coffee Break
- 3:00 pm **2026 Critical Paths to Human Exploration of Moon and Mars**

Dr. Dennis Chamberland, Principal Investigator, NASA Biomedical Engineering and Research Lab, Spaceport Integration Office, John F. Kennedy Space Center, Florida
NASA (retired)

Tuesday, January 13, 2026 (continued)

- 4:00 pm **Illinois Micro Reactor Demonstration Project**
Caleb Brooks, Professor, Department of Nuclear, Plasma & Radiological Engineering,
The Grainger College of Engineering, University of Illinois at Urbana-Champaign
- 4:30 pm Adjournment Day 1
- 6:00 - 7:30 pm **Opening Vendor Exhibition of New Technology and RP Services:
Honorees: Wolf Creek Nuclear Generating Station 2025 World Class ALARA
Performance Awardee & John Cassidy, 2025 Radiation Protection Professional
of the Year Awardee Performance Recipients**
- Open bar and appetizers provided by sponsoring vendors.
 - Visit each table – replacing the ‘BINGO Cards’ with a Raffle System. Vendors will receive raffle tickets in which they provide to utility attendees when they visit their booths, drawings will be done on breaks/lunches for winners.

Wednesday, January 14, 2026

7:00-8:00 am **Continental Breakfast** (Vendor Exhibit Hall)

Session III, Day 2: Current ALARA Topics at U.S. Nuclear Power Plants

Session Chair: Bert Engstrom, Director, RPM, Palo Verde, APS & NATC Board Member

- 8:00 am **Enhancing ALARA with Real-Time 3D Dose Maps**
Marc Fischer, Health Physics Technician, Surry Power Station, Dominion Energy &
Andy Haefner, Gamma Reality, Inc., Virginia
- 8:30 am **Susquehanna Refueling Outage Update**
Robin Rodriguez, Radiation Operations Superintendent, Susquehanna,
Talen Energy, Pennsylvania
- 9:00 am **INPO/WANO/AC RP Program Highlights**
Ashley Ballard, Assistant Department Manager, RP & Chemistry, INPO, Atlanta,
Georgia
- 9:30 am **Coffee Break** (Visit Vendors)
- 10:00 am **Palisades 2026 Restart Plans & Highlights of Plant Upgrades**
Calladan , RPM, Palisades, Holtec, Michigan
- 10:30 am **EPRI Updates of the Alpha Monitoring and Control Guidelines for Operating
Nuclear Power Stations & Radioactive Material Monitoring and Control
Guidelines**
Jeff Cady, Principal Technical Leader, EPRI

Wednesday, January 14, 2026

Session IV, Day 2: Use of New Technology in ALARA Programs

Session Chair: Craig Sutton, RPM, Diablo Canyon, PSE&G

- 11:00 am **ALARA Update During Refueling Outage at Wolf Creek**
David Jennings, Radiation Protection Supervisor, Wolf Creek Nuclear Generating Station, Evergy, Kansas
- 11:30 am **Sharing Experiences of OSART Operational Radiation Safety Reviews Over the World**
Marcos Amaral, Past ISOE Bureau Chair, Formerly RPM Angra 1,2 Brazil
- 12:00 pm **Lunch** (provided by vendors)

Session V, Day 2: The Future of Radiation Safety in the USA

Session Chair:

- 1:30 pm **Constellation Experience with Qualifications Program Improvements**
Harry Bush, Fleet RP Manager, Constellation, Illinois
- 2:00 pm **RP Manager's Perspective on Proposed Changes to Radiation Safety Regulations**
Harry Bush, Fleet RP Manager, Constellation, Illinois
- 2:30 pm **Panel Discussion on Proposed Revisions Potential Impacts at the In-plant Level**
Glenn Vickis, CHP, Moderator/Constellation, Brad Boyer, The Nuclear Company, Palisades, Michael Harrison, Watts Barr RPM, TVA & Harry Bush, Constellation
Reference: Idaho National Laboratory Report: "Re-evaluation of Radiation Protection Safety: INL-RPT-25-85463 (TBA)
- 3:00 pm Coffee Break Technology Exhibition Hall
- 3:30 pm **Advanced Lunar and Mars Exploration Technologies 2026**
Dr. Dennis Chamberland, Principal Investigator, NASA Biomedical Engineering and Research Lab, Spaceport Integration Office, John F. Kennedy Space Center, Florida
NASA (retired)
- 4:30 pm **US, Canada and Mexican Dose Trend Studies of Refueling Outages & Refurbishments**, Evan Palmer, NATC Rad Engineering Student Analyst, University of Tennessee & David W. Miller, NATC ISOE Director, University of Illinois at Urbana-Champaign, Illinois
- 5:00 pm **Adjourn Day 2**

Thursday, January 15, 2026

7:00-8:00 am **Continental Breakfast** (Vendor Exhibit Hall)

Session VI, Day 3

Session Chair: Joe Jaegers, RPM, Dresden Clean Energy Center, Constellation

8:00 am **Design Aspects of The Nuclear Power Corporation 1000 MW PWRs**
Brad Boyer, Organization Effectiveness Director, The Nuclear Company, Columbia, South Carolina

8:30 am **MCR Progress, Successes and Challenges, Update on MCR4 Chem Decon**
Ian Rowe, Senior Health Physicist, Bruce Power, Ontario, CANADA

9:00 am **Design of SMRs Including RP Considerations**
Jeff Cady, Senior Project Manager, EPRI

9:30 am **Coffee Break & Passport Vendor Appreciation Gift Drawing**

Session VII, Day 3: Challenges in Radiation Safety

Session Chair: Michael Harrison, RPM, Watts Bar, TVA (and recipient of the 2023 World Class ALARA Award)

10:00 am **Progress in Decommissioning Work Following the Fukushima Daiichi Accident, Strengthened Safety Measures, and Progress in Restarting Japan's NPPs**
Professor Tadashi Narabayashi, Tokyo Institute of Technology, Japan

11:00 am **EPRI Radiological Research Update and Future Studies**
Jeff Cady, EPRI

11:45 am **Distinguished Paper Summaries from European & Asian ISOE Symposia**
(TBA)

11:50 am **Announcements of 2026 Symposium Best Papers Awards**

11:55 am **2026 Symposium Summary & Adjournment**

12:00 am **Lunch** (Box lunch provided in Exhibition Hall.)

Thursday, January 15, 2026 (continued)

Regional RPM Meeting

1:00 pm – 4:00 pm

All regulators and utility health physicists are welcome to attend. Vendors are welcome to attend as observers with seating around the perimeter of the meeting room. No costs for attending the meeting.

The Regional RPM Meetings features neutral ground discussion on Radiation Protection topics with regulatory and utility health physics. 72nd regional meeting since 1988 chaired by Harry Bush, Fleet RPM, Constellation.

On behalf of the 2026 Technical Program Committee, we thank each of you for the symposium.

We wish to express our appreciation to the participating vendors for providing the latest information on new ALARA technology and technical services.

We thank the presenters, session chairs, Amy Keep and NATC Board Members for making the 2026 symposium a success.

If you have any questions on the draft agenda or wish to provide a paper, please contact Amy Keep at almoeller88@gmail.com/+1 269-930-0753 or David W. Miller, dmiller@illinois.edu/+1 217- 855-3238

Next ISOE Symposium is an International Symposium held in Helsinki, Finland, June 17-19, 2026. A tour of TVO Unit 3 is available on June 20 on a first come first served basis (Limited bus seats available). Abstracts are due to the Technical Program Committee by January 14, 2026. Please let David Miller, Helsinki Program Committee member, know your interest in presenting a paper or post.