

2025 North American ISOE ALARA Symposium 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 14-16, 2025

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 [Moeller]), almoeller88@gmail.com +1 269 930 0753 or
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Symposium Theme – Mentoring Radiation Protection Individuals to Meet the Expanding Needs of the Nuclear Energy Industry

Tuesday, January 14, 2025

* 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 NPRI Non-Disclosure Form for ALARA Symposia as in past years. (Please contact Prof. Rizwan Uddin, Head-NPRI, rizwan@illinois.edu, if you have any questions.)

Session I, Day 1: World Class ALARA Achievements & Major Nuclear Industry Challenges in 2025

Session Co-Chair: Bradley Boyer, ISOE NATC Board Chair & TVA Fleet RP & Radwaste Director, USA & David W. Miller, NATC Director, University of Illinois at Urbana-Champaign

7:00 am–5:00 pm **Walk In Registration**
7:00am-8:00 am EST **Continental Breakfast**

Opening Session

- 8:00 am **Welcome**
- 8:05 am **Roll Call for All Attendees and Vendor Exhibitors**
- 8:15 am **Future Directions of Bruce Power for Long Term Energy Production for Ontario**
Rob Hoare, Vice President Major Component Replacement (MCR) Bruce Power,
Ontario, CANADA
- 8:25 am **World Class ALARA Performance Awardee: Bruce Power**
Citations presented by Brad Boyer, ISOE Past Management Board Chairperson &
TVA Fleet RP & Radwaste Director, TVA

Tuesday, January 14, 2025 (continued)

- 8:30 am **Attributes of World Class ALARA Performance Achieved at Bruce Power**
D. E. Miller, Construction Health & Safety Manager Major Component Replacement (MCR) Execution, Bruce Power, Ontario, CANADA
- 8:45 am **Bruce Power ALARA Program Achievements and Challenges During Refurbishments**
Ian Rowe, Senior Health Physicist, Bruce Power, Ontario, CANADA
- 9:45 am **H8B Hot Particle Retrieval Execution**
Ian Rowe, Senior Health Physicist, Bruce Power, Ontario, CANADA
- 10:15 am Coffee Break
- 10:45 am **Risk Assessment and RP Management for High Dose Rate BWR Outage Work**
John Moser, RPM, LaSalle Station, Constellation
- 11:15 am **BWR Steam Leak Repair: ALARA Decision Process Described/Results**
Andreas Ritter, RP Deputy Manager, Liebstadt, KKL, Switzerland
- 12:00 am **Lunch** (provided by vendors)

Session II, Day 1, ALARA Achievements in Work Management

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

- 1:30 pm **Palo Verde ALARA Achievements in 2024**
Herbert Engstrom, RPM, Palo Verde, APS
- 2:00 pm INPO-WANO-AC Update
Dave Kallenbach, Sr. Evaluator – Radiation Protection, INPO
- 2:30 pm Coffee Break
- 3:00 pm **Characterization of Waste Using In-field Gamma Spectroscopy**
Bruce Rumans, Program General Supervisor, Palisades, Entergy & Joe Osborn, Radwaste Manager, Retired Palisades, Entergy, WMG, Inc.
- 3:30 am **Replacing Radiation Monitors Successfully: Using OE to Prevent Violations**
Erik Merchant, Cook Effluents/NEI Sr. Project Manager & David W. Miller, NATC
- 4:00 pm **Starship: Mars in the Crosshairs**
Dr. Dennis Chamberland, Principal Investigator, NASA Biomedical Engineering and Research Lab, Spaceport Integration Office, John F. Kennedy Space Center, Florida NASA (retired)

Tuesday, January 14, 2025 (continued)

5:00 pm Adjournment Day 1

6:00 - 7:30 pm **Opening Vendor Exhibition of New Technology and RP/ALARA Services:
Honorees: Bruce Power 2024 World Class ALARA Performance Recipients**

- Open bar and appetizers provided by sponsoring vendors.
- Visit each table and have your Passport Card initialed by each vendor host.
Turn in completed Passport Card by **Thursday at 10:00 Coffee Break** for Vendor prizes drawing.

Wednesday, January 15, 2025

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

Session III, Day 2: Current ALARA Topics at US Nuclear Power Plants

Session Chair: Robin Rodriguez, Radiation Operations Superintendent, Susquehanna, Talen Energy

8:00 am **OPG Darlington Nuclear Refurbishment Project Update**
Scott Stafford, Refurbishment RP Manager, Darlington, OPG, Ontario, CANADA*

9:00 am **NEI RP Update**
Michael Smith, RP Manager, Nuclear Energy Institute, Washington DC

9:30 pm **Real Time, 3D Radiation Mapping on Robotic Platforms for Radiation Protection**
Marc Fischer, Surry Power Station, Dominion Energy & Erika Suzuki, Gamma Reality, Inc.

10:00 am **Recent Changes in Core Design & EDM Cutting on Rx Vessel Internals Can Significantly Degrade Station Source Term**
Patricia Robinson, President, (n,p) Energy

10:30 am **Coffee Break** (Visit each vendor table and continue have Vendor Appreciation Passport Card initialed.)

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

Session Chair: Michael Harrison, RPM, Watts Bar, TVA

11:00 am **Highlights of Farley ALARA Program**
Scott Bryant, ALARA RP Superintendent, Farley, Southern Company

11:30 am **The Space Revolution- Technology Development at Warp Speed**
Dr. Dennis Chamberland, Principal Investigator, NASA Biomedical Engineering and Research Lab, Spaceport Integration Office, John F. Kennedy Space Center, Florida
NASA (retired)

Wednesday, January 15, 2025 (continued)

12:00 pm **Lunch** (provided by vendors)

Session V, Day 2: Annual Health Physics Regulatory Forum

Session Co-Chair: Steven Garry, NRR, U.S. Nuclear Regulatory Commission & (TBD) CNSC, Canada and Bradley Boyer, ISOE NATC Board Chair & TVA Fleet RP & Radwaste Director

1:30 pm **Isotopic Correction Factors for Accident Source Terms**
Glen Vickers, RP Technical Leader, Constellation

2:00 pm **U.S. NRC Headquarters' 2023 Occupational Exposure Report for US BWRs and PWRs**
Steven Garry, CHP, Sr. Health Physicist, Division of Risk Assessment, Radiation Protection and Consequence Branch, Office of Nuclear Reactor Regulation (NRR)

2:15 pm **NRC HQ Updates**
Steven Garry, CHP, Sr. Health Physicist, Division of Risk Assessment, Radiation Protection and Consequence Branch, Office of Nuclear Reactor Regulation (NRR)

3:00 pm Coffee Break

3:00 pm **NRC inspector's Panel Discussion of ALARA & RP Findings and Observations**

NRC Region I:

Bryan Edwards, Health Physicist Inspector

NRC Region II:

Jack Bell, Sr. Health Physicist Inspector

NRC Region III:

Timothy Hooker, Health Physicist Inspector

NRC Region IV:

Bernadette Baca, Health Physicist Inspector

Natasha Greene, Sr. Health Physicist / Reactor Group Leader

4:00 pm **Restart of Japanese PWRs and BWRs: Degraded Fuel Removal Snake Robotic Experience at Fukushima**
Professor Tadashi Narabayashi, Laboratory for Zero-Carbon Energy, Institute of Science Tokyo, Japan

5:00 pm **Adjourn Day 2**

Thursday, January 16, 2025

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

**Session VI, Day 3: Keynote Presentation by The Honorable David A. Wright, NRC
Commissioner & Major RP Achievements in 2024**

Session Chair: David W. Miller, NATC Director, University of Illinois at Urbana-Champaign

8:00 am **Future of Nuclear Power in USA and New Regulatory Initiatives**
The Honorable David A. Wright, U.S. NRC Commissioner, Recipient of the 2023
Nuclear Professional of the Year Award

9:00 am **SAFSTOR at Dresden Unit 1**
Joseph Jaegers, RPM, Dresden, Constellation

9:30 am **Vogtle Unit 3 & 4 RP Experience with Startup & First Refueling Outage**
Jim Dixon, RPM, Vogtle Units 3 & 4, Southern Company

10:00 am **Coffee Break & Passport Vendor Appreciation Gift Drawing**

Session VII, Day 3: Challenges in Radiation Safety

Session Chair: Herbert Engstrom, RPM, Palo Verde Generating Station, APS

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

10:30 am **Watts Bar Implementation of New Technology for PWR CRUD Burst
Pixelated CZT Real-Time Monitoring**
Michael Harrison, RPM, Watts Bar, TVA & David Nestle, H3D, Inc.

11:00 am **Palisades Restart Plans and ALARA Initiatives**
Michael Ginzler, Senior Health Physicist & Gerry Wright, RPM, Palisades, Holtec

11:30 am **2025 NATC ISOE Strategic ALARA Initiatives**
David W. Miller, NATC Director, University of Illinois at Urbana-Champaign

11:50 am **Announcements of 2025 Symposium Best Papers Awards and**

11:55 am **2025 Symposium Summary & Adjournment**

12:00 am **Lunch (provided by vendors)**

Thursday, January 16, 2025 (continued)

Regional RPM Meeting

1:00 pm – 4:30 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. Seventieth regional meeting since 1988 chaired by John Moser, LaSalle County RPM, Constellation,

On behalf of the 2025 Technical Program Committee, we thank each of you 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 wish to thank the presenters, session chairs, Amy Keep and Brad Boyer for making the 2025 symposium a success.

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