

2025 North American ISOE ALARA Symposium Agenda

Sheraton Sand Key Resort
1160 Gulf Blvd., Clearwater, Florida, 33767, USA
+1 727 595-1611
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
(David W Miller dmiller@illinois.edu, +1 217 855 3238) Rev.0

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 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.)

Plenary Session I, Day 1

Session Co-Chair: Bradley Boyer, ISOE NATC Board Chair & TVA Fleet RP & Radwaste Director

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**

Tuesday, January 14, 2025 (continued)

- 8:15 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
- 9:15 am **US DOE Nuclear Energy Roadmap for the Expansion of Nuclear Energy**
TBA, US DOE Senior Manager
- 10:00 am Coffee Break
- 10:15 am **Vogtle Unit 3 & 4 RP Experience with Startup & First Refueling Outage**
Jim Dixon, RPM, Vogtle Units 3 & 4, Southern Company
- 10:45 am **2024 ISOE Staff Leadership Development**
Brad Boyer, ISOE Past Management Board Chairperson & TVA Fleet RP & Radwaste Director & Carol Barajas, VP, Nuclear Projects, TVA
- 11:15 am **2024 World Class ALARA Performance Awardee ALARA Program Achievements**
TBA
- 11:45 am **2024 World Class ALARA Performance Awardee**
Citations presented by Brad Boyer, NATC Board Chair
- 12:00 am Lunch (provided by vendors)
- Session II, Day 1, ALARA Achievements in Work Management**
Session Chair: Director Technical Support, RP & Chemistry, Palo Verde, Arizona Public Service
- 1:00 pm **St. Lucie ALARA Program Highlights**
Bob Story, RPM, St. Lucie, FPL (Invited)
- 1:30 pm **BWR Steam Leak Repair: ALARA Decision Process Described/Results**
Andreas Ritter, RP Deputy Manager, Liebstadt, KKL, Switzerland
- 2:00 pm **Development of Isotopic Correction Factors for High Range Noble Gas Monitor Accident**
Glen Vickers, Constellation
- 2:30 pm Coffee Break

Tuesday, January 13, 2025 (continued)

- 2:45 pm **The Starship Revolution**
Dr. Dennis Chamberland, Principal Investigator, NASA Biomedical Engineering and Research Lab, Spaceport Integration Office, John F. Kennedy Space Center, Florida
NASA (retired)
- 3:30 pm Utility/Vendor Networking (Vendors have requested this at last year's symposium, in place of the Vendor Face to Face).
- 5:00 pm Adjournment Day 1

6:00 - 7:30 pm

Opening Vendor Exhibition of New Technology and RP/ALARA Services:

30th Anniversary Celebration of the North American Technical Center

- 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: TBD, Braidwood RPM, Constellation

- 8:00 am **NEI RP Update**
Mike Smith, RP Manager, Nuclear Energy Institute, Washington DC
- 8:30 am **Risk Assessment & RP Management for High Dose Rate BWR Outage Work**
John Moser, LaSalle Station, Constellation
- 9:15 am **First US PWR to Complete Plant-wide Radiation Monitoring System Replacement with Regulatory Findings: D.C. Cook**
David W Miller, NATC and Erik Merchant, Cook Effluents & NEI Sr. Project Manager
- 9:45 am **Pixelated CZT Spectra Real-Time Monitoring During PWR CRUD Burst & Operation Failed Fuel Episode**
TBD RPM, Point Beach 1, 2, Florida Power & Light
David Nestle, CHP, H3D
- 10:15 am Coffee Break (Visit each vendor table and continue have Vendor Appreciation Passport Card initialed.)

Wednesday, January 15, 2025 (continued)

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

**Session Chair: Jennifer Allen, Senior HP, Point Lepreau & NATC Board Member
New Brunswick, Canada**

- 10:45 am **Dresden ALARA Outage Experience**
Joseph Jaegers, RPM, Dresden Station, Constellation
- 11:15am **The Mars Colony Nuclear Future**
Dr. Dennis Chamberland, Principal Investigator, NASA Biomedical Engineering and Research Lab, Spaceport Integration Office, John F. Kennedy Space Center, Florida
NASA (retired)
- 11:45 pm **Lunch** (provided by vendors)

Session V, Day 2: Annual Health Physics Regulatory Forum

Session Chair: Steven Garry, NRR, U.S. Nuclear Regulatory Commission

- 1:15 pm **U.S. NRC Headquarters' 2022 Occupational Exposure at US BWRs, PWRs, and HP Regulations Update**
Storm Veunephachan, Division of Risk Assessment, Radiation Protection and Consequence Branch, Office of Nuclear Reactor Regulation (NRR), U.S. NRC
- 1:45 pm **NRC HQ Updates**
Steven Garry, Division of Risk Assessment, Radiation Protection and Consequence Branch, Office of Nuclear Reactor Regulation (NRR), U.S. NRC
- 2:30 pm Coffee Break
- 3:00 pm **Recent U.S. NRC ALARA & RP Findings and Observations with Regional Inspectors' Panel Discussion**
Steven Garry, NRR, Sr. Health Physicist
Region I, II, III & IV Health Physics Inspectors:
- U.S. NRC Region I:**
- TBD
- U.S. NRC Region II:**
- Jack Bell
- U.S. NRC Region III:**
- Timothy Hooker
- U.S. NRC Region IV:**
- TBD

5:00 pm **Adjourn Day**

Thursday, January 16, 2025

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

Session VI, Day 3: ALARA Programs for Major Plant Projects

Session Chair: Brad Boyer, ISOE Management Board Past Chair, Radiation Protection and Radwaste CFAM, TVA

8:00 am **INPO RP Program Highlights**
RP & Chemistry, INPO

8:30 am **RP Highlights from Vogtle 1,2 ALARA Program**
Victoria Messenger, RPM, Vogtle 1, 2, Southern Company (Invited)

9:00 am **Realtime, 3D Radiation Mapping on Robotic Platforms for Radiation Protection**
Dr. Andy Haefner, CEO, Gamma Reality, Inc
Marc Fischer, Radiological Protection, Dominion Energy, Surry

9:30 am **Restart of Japanese PWRs and BWRs: Current Status and Future Plans**
Professor Tadashi Narabayashi, Laboratory for Zero-Carbon Energy, Tokyo Institute of Technology, Tokyo, Japan

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

Session VII, Day 3: Challenges in Radiation Safety

Session Chair: Brian TBA, RPM, Point Beach, NextEra Energy

10:30 am **Utilization of Isotopic Correction Factors in Constellation's URI Programs**
Meagan Robinson, Constellation

11:00 am **Darlington ALARA Achievements & Future Challenges**
Ben Chui, ALARA Manager, Darlington, OPG & ISOE Canadian Country Coordinator

11:30 am **Highlights of Farley ALARA Program**
TBA, Farley RP, Southern Company (Invited)

11:50 am **Announcements of 2025 Symposium Best Papers Awards and Young Scientist Distinguished ALARA Paper Award**

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

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

Thursday, January 16, 2025 (continued)

Regional RPM Meeting will be held from 1:00 pm – 4:30pm on Thursday, January 16, 2025, 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