

2024 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 3-5, 2024

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
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Symposium Theme - Achieving NPP Excellence by Innovative RP ALARA Mentoring Initiatives

Wednesday, January 3, 2024

* 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-Chairs: John Palms, NATC Honorary Board Chair, President Emeritus, University of South Carolina & Bradley Boyer, ISOE Past Management Board Chairperson & 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 to the 30th Anniversary of the North American Technical Center: 2024 ALARA Symposium, Information System on Occupational Exposure (ISOE)**
Dr. John M. Palms & Brad Boyer

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

Wednesday, January 3, 2024 (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: Citation Read by John M. Palms, PhD
- 9:15 am **2024 ISOE Staff Leadership Development**
Brad Boyer, ISOE Past Management Board Chairperson & TVA Fleet RP & Radwaste Director & Carol Barajas, VP, Nuclear Projects, TVA
- 10:00 am Coffee Break
- 10:15 am **INPO RP Program Highlights**
Ashley Ballard, Assistant Dept. Manager, RP & Chemistry, INPO
- 10:45 am **NEI RP Update**
Mike Smith, RP Manager, Nuclear Energy Institute, Washington DC
- 11:15 am **EPRI ALARA Research Update**
Darcy Campbell, Principal Team Lead, EPRI, Palo Alto, California, USA
- 11:45 am **2023 World Class ALARA Performance Awardee**
Citations presented by John M Palms, NATC Honorary Board Chair
Nash Ramage, RPM, Watts Bar, TVA
- 12:00 am Lunch (provided by vendors)
- Session II, Day 1, ALARA Achievements in Work Management**
Session Chair: Lori Grusecki, Director Technical Support, RP & Chemistry, Palo Verde, Arizona Public Service
- 1:00 pm **TEDE ALARA Evaluations**
Jeff Cady, RPM, Braidwood, Constellation & NATC Board Member
- 1:30 pm **Beznau ALARA Program, NPP Beznau, Switzerland**
Stefan Schauble, RP Manager, NPP Beznau, Switzerland
- 2:00 pm **Development of Isotopic Correction Factors for High Range Noble Gas Monitor Accident**
Glen Vickers, Constellation
- 2:30 pm Coffee Break
- 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)

Wednesday, January 3, 2024 (continued)

3:30 pm Vendor Face-to-Face Presentations (vendors currently registered, adjusting as registrations come in)

- **Advetage Solutions** - Justin Kung, Christopher Royce
- **American Ceramic Technology (Silflex Shielding)** – Richard Culbertson, Dan Stoltz
- **Dominion Engineering, Inc.** – Dale Vines, Randy Duncan
- **DOV Technologies, Inc.** – Marco Lara, Carlos Cruz
- **Eastern Technologies, Inc.** – Benji McWaters, Kaci Herron
- **Eichrom Technologies, Inc. (NPO)** - Andrew Dockweiler, Rebecca Harper
- **F&J Specialty Products, Inc.** – Frank Gavila
- **Gamma Reality, Inc.** – Andy Haefner, Erika Suzuki
- **Framatome** – Hannah Arrington, Greg Cambeis
- **Frham Safety Products, Inc.** - Bobby Harper, Tammy Adams
- **H3D, Inc.** – David Nestle
- **Innovative Industrial Solutions, Inc.** - Stan Robinson, Austin Robinson
- **International Nuclear Solutions, LLC** – Roberto Ramon
- **Lancs Industries** – Raymond Suarez
- **Ludlum Measurements, Inc.** - Jeff Anspaugh, Mike Shepherd, John Anderson
- **Mirion Technologies, Inc.** - Eric Graham, Nick Justice
- **NUVIA Group** – Frank Dambo, Patrik Lindroth
- **PureFlo** – Ronnie Dunne
- **Purolite Corporation** – Chris Bailey, Darrell Shaffer, David Lemen
- **Radiation Safety & Control Services** – Fred Erskine
- **Rasa Industries/Morimura Bros, Inc./Kimura Chemical Plants Co., Ltd.** – Masatoshi Sekiguchi, Koji Endo, Yoshihiro Ishikawa, Tomonori Watanabe, Yasuhiro Kawahara
- **S&W Technologies** – James Scrivener, Dr. James Wierowski
- **ThermoFisher Scientific, Inc.** - Bob Thomson, Richard Palatine, Cary Webber
- **UniTech Services Group** – Paul Oakley, Shannon Fitzgerald, Dick Downard, Denise Arlen
- **Westinghouse** – Tom Kennedy, Jimmy Orr, LA Blue, Bill Peoples
- **WMG, Inc.** – Mike Reeves, Don Terry

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 **Friday at 10:00 Coffee Break** for Vendor prizes drawing.

Thursday, January 4, 2024

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

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

Session Chair: Jeff Cady, Braidwood RPM, Constellation

- 8:00 am **Krško NPP 2023 Projects**
Jan Jamnik Srpčič & Maja Kozole, Krško Nuclear Power Plant, Slovenia
- 8:30 am **Risk Assessment & RP Management for High Dose Rate BWR Outage Work**
John Moser & Joseph Jaegers, LaSalle Station, Constellation
- 9:15 am **Utilization of Isotopic Correction Factors in Constellation's URI Programs**
Meagan Robinson, Constellation
- 9:45 am **Pixelated CZT Spectra Real-Time Monitoring During PWR CRUD Burst & Operation Failed Fuel Episode**
Brian Eick, 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.)

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 **Highlights of French RP Programs in 2023**
Philippe Weickert, EDF, Groupe Prevention Environment, Branch IRP
- 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)

Thursday, January 4, 2024 (continued)

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:

- Ron Rolph
- Harry Anagnostopoulos

U.S. NRC Region II:

- Jack Bell
- Jonathan Rivera

U.S. NRC Region III:

- John Cassidy

U.S. NRC Region IV:

- John O'Donnell

5:00 pm **Adjourn Day 2**

Friday, January 5, 2024

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 **RP Highlights from Vogtle 3 Startup**
Victoria Messenger, RPM, Vogtle 1, 2, Southern Company
- 8:30 am **1,700 Radiation Worker Quiz Results and Recommendations**
Jeff Cady, RPM, Braidwood, Constellation & NATC Board Member
- 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 Eick, RPM, Point Beach, NextEra Energy

- 10:30 am **Highlights of ISOE WGDECOM Decommissioning Expert Group Benchmarking Visit to Doel, Belgium**
Kris Bauer, Corporate RP Superintendent, TVA
- 10:40 am **Canadian Owner's Group ALARA Update**
Jennifer Allen, Senior Health Physicist, & NATC Board Member, Point Lepreau, New Brunswick, CANADA
- 10:50 am **Air Purification New Technology for Japanese Nuclear Facilities**
Tomonori Watanabe, Deputy General Manager, Morimura Bros., Inc.
- 11:15 am **Susquehanna ALARA Program Highlights**
Robin Rodriguez, Radiation Operations Superintendent, Susquehanna, Talen Energy (invited)
- 11:30 am **2023-2026 ISOE Strategic Plan Overview**
Brad Boyer, ISOE Management Board Past Chair, Radiation Protection and Radwaste CFAM, TVA

Friday, January 5, 2024 (continued)

- 11:40 am **Announcements of 2024 Symposium Best Papers Awards and Young Scientist Distinguished ALARA Paper Award**
- 11:50 am **2023 Symposium Summary & Adjournment**
- 12:00 am **Lunch (provided by vendors)**

Regional RPM Meeting will be held from 1:00 pm – 4:30pm on Friday, January 5, 2024, 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 2024 Technical Program Committee, we thank each of you for attending the 30th North American Technical Center Anniversary Celebration.

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, Dr. John Palms, and Brad Boyer for making the 2024 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
