

2023 International ISOE ALARA Symposium Agenda

**Fort Lauderdale Marriott North
6650 N Andrews Avenue
Fort Lauderdale, Florida, USA 33309 +1 954-771-0440
8:00 am - 5:00 pm EST Daily, January 31 - February 2, 2023**

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 - 30th Anniversary of the International ISOE
Program:
An International RPM and Regulators' Forum for Sharing ALARA
Good Practices & Lessons Learned**

Tuesday, January 31, 2023

* 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 ISOE Program, 2023 ALARA Symposium, Information System on Occupational Exposure with Technical Centers in Paris, Vienna, Tokyo, and University of Illinois
Brad Boyer, ISOE Bureau Chairperson & Fleet RP & Radwaste Director, TVA

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

Tuesday, January 31, 2023 (continued)

- 8:10 am **Canadian Nuclear Power Plants: Status and Regulatory Perspective**
Peter Elder, Vice President and Chief Science Officer Technical Support Branch
Canadian Nuclear Safety Commission
- 8:50 am **The Future of Nuclear Power in USA and New Regulatory Initiatives**
David Wright, U.S. NRC Commissioner
- 9:30 am **Senior Manager's Perspective on the New Era for Nuclear Power Role in Contributing to Achieve Global Climate Change Goals**
Constellation Senior Management, TBA
- 10:00 am Coffee Break
- 10:20 am **2022 World Class ALARA Performance Awardee**
TBA
- 10:45 am **Chernobyl and Fukushima Radiological and Environmental Surveillance Results from a 22 Year Study**
Tim Mousseau, Professor of Biological Sciences, University of South Carolina
- 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 **Schedule Optimization with Source Term Reduction for Steam Generator Outage Work**
Ed Mercer, ALARA, Turkey Point 3.4. Florida Power & Light
- 1:30 pm **2022 RP BWR Events at Leibstadt, KKL Switzerland**
Andreas Ritter, Deputy Manager, RP, Chemistry & Fuels Department, Leibstadt, KKL, Switzerland
- 2:00 pm **Darlington Medical Isotope Production Program**
Ben Chui, ALARA Manager, Darlington, Ontario Power Generation, Ontario, Canada & NATC Board Chair
- 2:30 pm Coffee Break

Tuesday, January 31, 2023 (continued)

- 2:45 pm **New Footprints on Luna**
Dr. Dennis Chamberland, Principal Investigator, NASA Biomedical Engineering and Research Lab, Spaceport Integration Office, John F. Kennedy Space Center, Florida
NASA (retired)
- 3:15 pm Vendor Face-to-Face Presentations
- **American Ceramic Technology (Silflex Shielding)** – Richard Culbertson
 - **Ludlum Measurement, Inc.** - Jeff Anspaugh, Allan Hartfield, Mike Shepherd
 - **Dominion Engineering, Inc.** - Mike Little, Dale Vines
 - **Mirion Technologies, Inc.** - Eric Graham, Nick Justice
 - **Eichrom Technologies, Inc. (NPO)** - Andrew Dockweiler, Rebecca Harper
 - **Frham Safety Products, Inc.** - John Arrowsmith, Bobby Harper, Ronnie Dunne, Aaron Bell
 - **Framatome** - Hannah Arrington, John Mansor
 - **Innovative Industrial Solutions** - Stan Robinson, Shane Robinson
 - **Purolite Corporation**, Nick Backman, Darrell Shaffer, Chris Bailey, Suzanne Myers
 - **BHI Energy, Inc.** - Bill Peoples, Jimmy Orr, Tom Kennedy
 - **WMG, Inc.** – Sean Kelly, Mike Reeves
 - **UniTech Services Group** - Shannon Fitzgerald, David Welcher, Dick Downard, Victor Crusselle
 - **Radiation Safety & Control Services (RSCS)** - Ellen Anderson, Fred Erskine
 - **ThermoFisher Scientific, Inc.** - Bob Thomson, Richard Palatine
 - **Rasa Industries/Morimura Bros.** – Koji Endo, Yoshihiro Ishikawa, Yasuhiro Kawahara, Mototsugu Nakamura
 - **H3D, Inc.** – David Nestle, Reid Sobota
 - **Bosch Security Systems, Inc.** – Britt Bowers
 - **F&J Specialty Products, Inc.** – Frank Gavila
 - **G/O Corporation** – Ty Finley
 - **Eastern Technologies, Inc.** – David Kay
- 5:00 pm Adjournment Day 1
- 6:00 - 7:30 pm **Opening Vendor Exhibition of New Technology and RP/ALARA Services:
30th ISOE Anniversary Celebration**
- 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 9:30 Break for Vendor prizes drawing.

Wednesday, February 1, 2023

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 **Darlington Nuclear Refurbishment Update**
Kevin Larsen, Darlington Refurbishment Project, OPG, Canada

8:30 am **Risk Assessment & RP Management for High Dose Rate BWR Outage Work**
John Moser & Joseph Jaegers, LaSalle County, Constellation

10:00 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: Ben Chui, Darlington ALARA Manager & NATC Board Chair, Ontario, Canada

10:30 am **First BWR Drywell Drone Entry for Leak Inspection at 100% Power**
Dave Johnson, RP, Browns Ferry 1,2,3, TVA

11:00 am **STARSHIP: Gateway to Human Colonies on Other Worlds**
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: Annual Regulatory Forum

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

1:15 pm **U.S. NRC Headquarters' ALARA Update***
Edward Stutzcage, Division of Risk Assessment, Radiation Protection and Consequences Branch, Office of Nuclear Reactor Regulation (NRR), U.S. NRC

1:45 pm **Regulatory Guide 1.21 and 8.34 Including Accident Range Monitoring**
Steven Garry, Division of Risk Assessment, Radiation Protection and Consequences Branch, Office of Nuclear Reactor Regulation (NRR), U.S. NRC

2:30 pm **Development of Isotopic Correction Factors for General Atomics Wide Range Noble Gas Monitors at Constellation**
Megan Robinson, Emergency Planning Section, Constellation

3:00 pm Coffee Break

Wednesday, February 1, 2023 (continued)

- 3:15 pm **Observations on Licensee Alpha Monitoring Programs**
Jason Reed, Health Physicist, Region III, U. S. NRC
- 3:45 pm **Recent U.S. NRC ALARA & RP Findings and Observations**
Region I, II, III & IV Health Physics Inspectors:
- U.S. NRC Region I:**
- Bryan Edwards
 - Nick Eckhoff
- U.S. NRC Region II:**
- Jonathan Rivera
- U.S. NRC Region III:**
- John Cassidy
 - Jason Reed
 - Timothy Hooker
- U.S. NRC Region IV:**
- John O'Donnell
 - Bernadette Baca
 - Dominic Antonangeli
- 4:15 pm **NRC Regional Inspectors' Panel Discussion**
Steven Garry, NRR, Sr. Health Physicist
- 5:00 pm **Adjourn Day 2**

Thursday, February 2, 2023

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

Session VI: ALARA Programs for Major Plant Projects

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

8:00 am **Bruce Power Refurbishment Project Update**
John Zoll, RP Program Manager, Bruce Power, Ontario, Canada (invited)

8:30 am **Dry Cask Storage Campaign Exposure Estimation Project**
Ed Mercer, Turkey Point 3,4, Florida Power & Light

9:00 am **Radiation Protection Issues in the Decommissioning of Nuclear Facilities: Lessons Learned from the ISOE Expert Group on Decommissioning**
Laure-Anne BELTRAMI, Vice-Chair, WGDECOM, European Technical Center, Paris, France

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: Challenges in Radiation Safety

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

10:30 am **Diablo Canyon ALARA Updates**
John Covey, Radiation Protection Ops Support General Foreman, Diablo Canyon

10:40 am **Development of Japanese Nuclear Shelters for the Public with Air Purification System**
Mototsugu Nakamura, Morinmura Bros., Inc. & Koji Endo, Rasa Industries, Tokyo, Japan

11:15 am **2023-2026 ISOE Strategic Plan Overview**
Brad Boyer, ISOE Management Board Past Chair, Radiation Protection and Radwaste CFAM, TVA

11:30 am **Key ISOE Accomplishments & the 30th ISOE Anniversary Celebration**
David W. Miller, NATC Regional Director, University of Illinois

11:50 am **2023 Symposium Summary & Adjournment Day 3**

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

Thursday, February 2, 2023

Regional RPM Meeting will be held from 1:00 pm – 4:30pm on Thursday, February 2, 2023, all regulators and utility health physicists are welcome to attend.

The Regional RPM Meetings features neutral ground discussion on Radiation Protection topics with regulatory and utility health physics. Sixty-ninth regional meeting since 1988 chaired by John Moser, LaSalle County RPM, Constellation,

Vendors are welcome as observers at no additional costs.

On behalf of the 2023 Technical Program Committee, we thank each of you for attending the 30th ISOE 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 2023 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/269-930-0753.
