

2022 North American ISOE ALARA Symposium Agenda

Key West Marriott Beachside Hotel
3841 North Roosevelt Boulevard
Key West, Florida, USA 33040 +1 305 296-8100
8:00 am- 5:00 pm EST Daily, January 4-6, 2022

North American Technical Center, Department of Nuclear, Plasma & Radiological Engineering,
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 ISOE Program: Sharing of ALARA Good Practices & Lessons Learned

Tuesday, January 4, 2022

* Selected Presentations contain Proprietary or Restricted Information. This information will not be available to attendees outside of the NATC Symposium presentation in accord with U.S. 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, if you have any questions.)

Plenary Session I: Day 1

Session Co-Chairs: John M. Palms, NATC Honorary Board Chair, Distinguished President Emeritus, University of South Carolina & Bradley Boyer, ISOE Bureau Chairperson, Tennessee Valley Authority (TVA) RP Director

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

7:00 am -5:00 pm **Registration** (if not already registered)

Plenary Session

8:00 am EST **Welcome** to the 30th Anniversary of the ISOE Program, 2022 North American ALARA Symposium, Information System on Occupational Exposure with Technical Centers in Paris, Vienna, Tokyo and University of Illinois
John M. Palms, Honorary NATC Board Chair & Brad Boyer, ISOE Bureau Chairperson & RP Director, TVA

8:15 am EST **2022 Challenges for Radiation Protection Regulations and Inspections**
U.S. NRC Commissioner (invited)

Tuesday, January 4, 2022 (continued)

- 9:00 a.m. EST **New Reactor Development & the Changing U.S. Energy Landscape**
Kathryn Huff, Acting Assistant Secretary, Office of Nuclear Energy,
U.S. Department of Energy (Invited)
- 9:30 am EST **Award Presentations** (Citations presented by John M Palms, NATC Honorary Board Chair)
- **2021 World Class ALARA Performance Award**
 - **2020[?] John M Palms Outstanding Innovation Award**
 - **2021 Radiation Safety Professional of the Year Award**
- 10:00 am EST Day 1 Networking Coffee Break (Exhibit Hall)

Senior Management Speakers:

- 10:20 am EST **New Reactors & New Build Plans**
Timothy (Tim) Rausch (Tentative)
Executive Vice President & Chief Nuclear Officer, Tennessee Valley Authority
- 11:00 a.m. EST **Challenges in Sustaining the Nuclear Fleet**
Terry Brown, Site Vice President, Davis Besse Energy Harbor (invited)
- 12:00 pm EST Lunch

Session II: Current ALARA Topics at Nuclear Facilities

- 1:00 pm EST **Reactor Recirculation System Replacement at KKL**
Andreas Ritter, Deputy RPM, Switzerland
- 1:30 pm EST **INPO RP Update**
Thomas Roddery, INPO RP Manager (invited)
- 2:00 pm EST **LaSalle County Recirculation Pump Flow Control Valves ALARA Operating Experience**
John Moser & Joseph Jaegers, Exelon
- 2:30 pm EST **The Domination of Space Frontier in 2022**
Dr. Dennis Chamberland, Principal Investigator, NASA Biomedical Engineering and Research Lab, Spaceport Integration Office, John F. Kennedy Space Center, Florida NASA
- 3:15 pm EST Networking at Coffee Break (Exhibit Hall)

Tuesday, January 4, 2022 (continued)

3:30 pm EST Operating Experience "Expert Panel:" What it takes to be an effective RPM

- Steve Taylor – Championing Change
- Clayton Stone – Caring about People to Earn Trust
- Harry Bush – Risk Recognition and Mitigation
- Jim Dixon – Influencing your SLT
- John Moser – Senior Leadership Team (STL) -Standing Tall

4:30 pm EST Vendor Face-to-Face (Group #1)

5:00 pm EST **Adjourn Day 1**

6:00 -7:30 pm EST Vendor Opening Reception & 30th ISOE Anniversary Celebration
All Attendees Invited to Attend

Wednesday, January 5, 2022

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

Session III: 2021 Dose Reduction Successes, Challenges & Future

8:00 am EST **Laguna Verde Significant Reduction in BWR BRAC Point Dose Rate***
Juan Jesus Giron, ALARA, Laguna Verde Nuclear Plant, Mexico (invited)

8:30 am EST NEI ROP and RSTF Updates
TBA, NEI RP Manager

9:00 am EST **Darlington Major Component Replacement Update***
Scott Stafford, Darlington ALARA Refurbishment Director, OPG, Canada
(invited)

9:30 am EST **Browns Ferry ALARA Program Successes & Improvements**
Jason Eggart, RPM, Browns Ferry, TVA (invited)

10:00 am EST Networking at Coffee Break (Exhibit Hall)

Session IV: Challenges in Radiation Safety

10:30 am EST **Trending Ag-110m in Outage Primary Coolant Using H3D CZT***
Weiyi Wang & David Goodman, H3D

11:00 am EST **Radiological Safety and ALARA Aspects of Boreal Plate Analysis
On Watts Bar Spent Fuel Rack Coupons**
Brad Boyer, TVA RP Director

Wednesday, January 5, 2022 (continued)

Session V: Radiological Work Management at Nuclear Power Plants

11:30 am EST **BWR Refueling Outage Work Deferral due to the Pandemic**
TBA

11:45 am EST **PWR Refueling Outage Work Deferral due to the Pandemic**
TBA

12:00 noon EST **Networking Lunch** (Exhibit Hall)

Session VI: Annual Regulatory Forum

Session Chair: U.S. Nuclear Regulatory Commission, Region III (Steven Orth)

1:30 am EST **Revision of ANSI Sr. RP Technician Qualifications**
L.A. Blue, BHI

2:00 pm EST **CNSC RP Regulatory Update**, Ottawa, Canada (TBA, invited)

2:30 pm EST **U.S. NRC Headquarters' ALARA Update***
Kevin Hsueh, Chief, Steven Garry, & Michael Smith
Division of Risk Assessment, Radiation Protection and Consequences Branch,
Office of Nuclear Reactor Regulation (NRR), U.S. NRC

3:00 pm EST **Presentation Recent U.S. NRC ALARA & RP Findings and Observations***
Region I, III & IV Health Physics Inspectors (to be updated)

U.S. NRC Region I:

- 1. Anthony Dimitriadis, Branch Chief**
- 2. Scott Wilson, Senior Health Physicist**
- 3. Elizabeth Andrews, Health Physicist**

U.S. NRC Region III:

- 1. Steven Orth, Branch Chief**
- 2. Stephen Bell, Health Physicist**
- 3. John Cassidy, Senior Health Physicist**
- 4. Valerie Myers, Senior Health Physicist**

U.S. NRC Region IV:

- 1. Greg Warnick, Branch Chief**
- 2. John O'Donnell, Senior Health Physicist**
- 3. Natasha Greene, Senior Health Physicist**
- 4. Bernadette Baca, Health Physicist**
- 5. Eric Simpson, Health Physicist**
- 6. Dominic Antonangeli, Health Physicist**

Wednesday, January 5, 2022 (continued)

3:30 pm EST **NRC Regional Inspectors' Panel Discussion***

Mike Smith, NRR, Health Physicist
Steven Garry, NRR, Sr. Health Physicist
Anthony Dimitriadis, U.S. NRC, Region I, Branch Chief
Elizabeth Andrews, U.S. NRC, Region I, Health Physicist, Div. of Nuclear Materials Safety
Scott Wilson, U.S. NRC, Region I, Senior Health Physicist, Div. of Nuclear Materials Safety
Steven Orth, U.S. NRC, Region III Branch Chief
John Cassidy, U.S. NRC Region III, Senior Health Physicist
Valerie Myers, U.S. NRC Region III, Sr. Health Physicist
Steven Bell, U.S. NRC Region III, Health Physicist
Gary Warnick, U.S. NRC, Region IV Branch Chief
Natasha Greene, U.S. NRC Region IV, Sr. Health Physicist
John O'Donnell, U.S. NRC Region IV, Health Physicist
Bernadette Baca, Health Physicist
Eric Simpson, Health Physicist
Dominic Antonangeli, Health Physicist

4:30 pm EST Global Regulatory RP & ALARA Forum Discussions
CNSC, NRC, European regulators TBA

5:00 pm EST **Adjourn Day 2**

Thursday, January 6, 2022

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

Session VII: ALARA Program Improvements that Achieve Cost Savings

- 8:00 am EST **The Shifting Dynamics of Human Space Exploration in 2022 & Beyond**
Dr. Dennis Chamberland, Principal Investigator, NASA Biomedical Engineering and Research Lab, Spaceport Integration Office SI-E10, John F. Kennedy Space Center, Florida NASA
- 9:00 am EST **ALARA Operating Experience at Salem/Hope Creek**
Robert Porter, PS&G CFAM
- 9:30 am EST **First U.S. Plant-wide Radiation Monitoring System Replacement Experience & Lessons Learned***
David Raye, Cook Nuclear Plant (invited)
- 10:00 am EST Coffee Break & Vendor Passport Gifts Drawing (Exhibit Hall)

Thursday, January 6, 2022 (continued)

Session VIII: Fall, 2021 Outage COVID 19 Challenges/RPM Strategies

- 10:30 am EST **IBEW and Management Partnership in the Arkansas Recovery from INPO Special Focus & NRC Column 4**
Brian Irwin, IBEW Arkansas Nuclear One, Business Manager (invited)
- 11:00 am EST **Restart Status of NPPs in Japan, Advanced FCVS Technology Decommissioning and COVID-19 Measures***
Dr. Tadashi Narabayashi, Laboratory for Advanced Nuclear Energy, Tokyo Institute of Technology
- 11:30 am EST **ALARA in Repair of Reactor Vessel Flange Surface at Krsko NPP**
Borut Breznik, RPM Krsko NPP, Slovenia (invited)
- 12:00 pm EST **Lunch** (Exhibit Hall)

Session IX: International ALARA Highlights

- 1:30 pm EST **ALARA Operating Experience for Steam Generator Replacement at Angra NPP, Brazil** (invited)
- 2:00 pm EST **2020 Country Dose Highlights in France, UK, Sweden, Japan, Sweden, and USA**

Session X: The Future of NPP ALARA Programs

- 2:30 pm EST **Vogtle New Plant Update**
Southern Company (invited)
- 3:00 pm EST **Conversion of Civil Defense GM Meter to SMART Meters for High School Teachers**
Professor Kim Kearfort[spelling?], University of Michigan
- 3:00 pm EST **2021-2023 ISOE Strategic Plan Overview**
Brad Boyer, ISOE Management Board Chairperson & RP Director, TVA
- 3:30 pm EST **Key ISOE Accomplishments & the 30th ISOE Anniversary Celebration**
- 4:00 pm EST **2021 Symposium Summary & Adjournment Day 3**
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Note: Region III & IV RPM Meeting will be held from 8:00 am – 3:00 pm on Friday, January 7, 2022 (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 physicists. Sixty-seventh regional meeting since 1988 chaired by John Moser, LaSalle County RPM. All attendees and vendors are welcome to attend at no additional costs.

Fleet RP Managers Meetings may be scheduled by fleet CFAMs for Friday afternoon or Saturday, January 8, 2022. Please contact Amy Moeller for further information on this item.

On behalf of the 2022 Technical Program Committee, we thank each of you for attending the first “in-person” major U.S. RP meeting in 3 years! We wish to express our appreciation to the participating vendors for providing the latest information on new ALARA technology and technical services. Please have a safe trip home.

If you have any questions on the draft agenda or wish to provide a paper, please contact Amy Moeller, almoeller88@gmail.com