



February 17, 2021

Dear ISOE Radiation Protection Managers & Regulators,

Re: 2022 International ISOE ALARA Symposium, January 3-5, 2022, Key West Marriott Beachside Hotel

On behalf of the NATC NPRE Technical Program Committee, I am pleased to invite you to attend the 2022 International ISOE ALARA Symposium to be held January 3-5, 2022 at the **Marriott Beach Resort, Key West, 3841 North Roosevelt Boulevard, Key West, Florida, 33040 (800-546-0885/1-305-296-8100)**.

The 2022 symposium schedule has been planned to achieve low costs to the attendees by consolidating the Symposium and Region III & IV RPM meetings into a 3-day period. Also, the COVID 19 Pandemic implications on the safety of attendees and vendors has necessitated a parallel planning approach for the 2022 International ALARA Symposium: Actual or Virtual Symposium. The January 2021 North American ALARA Symposium featured presentations on new ALARA technology and ALARA Lessons Learned. The 2021 presentations are being provided for ISOE utility and regulator members as continuing ALARA education sessions on multiple times mid-week for RP staff at ISOE member sites to gain benefit from the global ISOE information sharing- the primary mission of the ISOE program.

The NATC NPRE ALARA Symposia have become the premier regulatory forum at the beginning of each year. The symposia feature a 3-hour presentation on Day 2 of regulatory RP and ALARA findings and health physics inspector observations from prior year outages. RPM consider the regulatory forum to be a valuable communication with regulators to avoid RP ALARA findings in the future at their site.

The NATC NPRE Technical Program Committee has been expanded for the 2022 Symposium to facilitate careful planning of the PEP Continuing Education Course, Symposium and Region III & IV RPM meeting. Representatives from each ISOE Technical Center will be invited to participate in the symposium planning.

The January 2022 symposium will include the following schedule (if held as an actual symposium):

Sunday, January 2, 2022	9 am - 5 pm	Professional Enrichment Continuing Education Courses with emphasis on the new NATC ISOE BWR, PWR & CANDU major
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task dose/manhour comparisons, new CZT technology, Radiation Monitoring System replacement lessons learned and source chemical engineering concepts in source term reduction.

Monday, January 3, 2022	8 am - 5 pm	ISOE ALARA Symposium – Day 1 including Plenary Speakers, 2020 World Class ALARA Performance, & Outstanding
ALARA Innovation Awardees.		
Monday, January 3, 2022	6 pm - 7:30 pm	Vendors’ Reception at the Marriott
Tuesday, January 4, 2022	8 am – 5 pm	ISOE ALARA Symposium – Day 2 including regulatory presentations.
Tuesday, January 4, 2022	6 pm – 7:30 pm	Vendors’ Reception (an additional vendor exhibition to allow more time to visit vendor booths).
Wednesday, January 5, 2022	8 am – 12 pm	ISOE ALARA Symposium – Day 3 (RPM Operating Radiological Events)
Wednesday, January 5, 2022	1 pm – 5 pm	Region III & IV RPM Meetings (Observations from NRC Branch Chief & RP Inspectors in Control of RP Programs).

Symposium Objectives:

Since 1997, the annual North American ISOE ALARA Symposium has steadily grown with utility RP managers attending from U.S., Canada, and Mexico. The NATC Board knows the symposia could not have been so successful without your willingness to share radiological events good practices and lessons learned from the 2021 spring and fall refueling outages in Mexico & US and maintenance/refurbishment outages in Canada.

The primary goal of the 2022 winter ALARA symposium has become the premier utility/regulatory meeting for Radiation Protection Managers and health physics professionals to exchange the latest good practices and lessons learned from new RP initiatives and technology. In 2020, NATC has developed over 35 Information Sheets (IFS) on major refueling outage tasks to facilitate the benchmarking of major outage jobs during the ALARA planning process. The IFS will be made available to ISOE members. RPMs are encouraged to invite their plant managers & maintenance directors to attend the 2022 International ALARA Symposium. The Theme of the 2022 symposium is ALARA Successes & Lessons Learned at Nuclear Power Plants.

The symposium will feature technical papers and exhibits on the latest approaches in work management, instrumentation, dose control, remote monitoring, and dose measurement. The symposium is held early in the calendar year at the suggestion of ISOE utility Radiation Protection Managers to assist individual plants in setting annual and refueling outage ALARA dose goals/targets. Good ideas on successful refueling and maintenance ALARA outage initiatives are also shared at the symposium.

Meeting Registration Information: <https://my.engr.illinois.edu/eventreg/register.asp?id=1517>

Hotel reservation details are listed via the registration link. **IMPORTANT Personnel Safety**

Information: The College of Engineering, University of Illinois, insures the ALARA Symposia with Lloyd's of London for weather related travel problems, attendee illness & acts of terrorism. A refund of the registration fees will be available upon request if a registered attendee or vendors needs to cancel their participation.

The 2022 ISOE ALARA Symposium is sponsored by the North American Technical Center (NATC) NPRE, Grainer College of Engineering, University of Illinois. NATC, NPRE College of Engineering is one of four ISOE Technical Centers that include Paris, Vienna, and Tokyo.

NATC's occupational dose radiological engineering analysis section is located in the Grainer College of Engineering, University of Illinois at Urbana-Champaign, Illinois, USA. The Information System on Occupational Exposure was established in 1992 by the Nuclear Energy Agency (OECD/NEA) in Paris and since 1994, the International Atomic Energy Agency in Vienna has co-sponsored the ISOE program, Official participants in the ISOE program include 76 utilities in 29 countries (350 operating reactors, 80 shutdown reactors) and regulatory authorities in 22 countries. The ISOE database itself includes information on occupational exposure levels and trends at 400 operating reactors in 29 countries, covering about 90% of the world's operating commercial nuclear power plants.

Other Meetings (to be held at the same venue)

- Sunday, January 4, 2022 Professional Enrichment Program courses including lessons learned on NRC inspections on lessons learned on RMS Replacement at NPPs, extended range noble gas effluent monitors, CZT spectra experience on LWR piping isotopic mapping and source term reduction lessons learned.
- Wednesday, January 5, 2022, Regional III & IV RPM Meetings with invited guests
- Thursday, January 6, 2022, North American Work Management Expert Group Meeting (chaired by Colin Pritchard, Bruce Power).

If you have any questions, feel free to contact either David Miller via cell: + 1 [217-855-3238](tel:217-855-3238) email: dmiller@illinois.edu or myself, via cell: [269-930-0753](tel:269-930-0753) email: almoeller88@gmail.com. There may be many questions due to the unusual and important restrictions due to the COVID 19 Pandemic during 2021. All attendees and vendors must agree to follow the COVID 19 requirements provided by the Key West city government and the Marriott Hotel.

NATC NPRE is being funded by NATC student alumni to provide the January 2021 symposium presentations as ALARA/Health Physics continuing education ZOOM or Microsoft Team sessions during 2021. The plan is for each paper presented for 30- minute, midweek training session in the various global time zones on multiple occasions. The objective is to **foster greater ISOE community dissemination** and discussion of ALARA new technology, actual in-plant RP experience with new technology, regulatory ALARA findings and radiological good practices. Mr. Colin Pritchard, NATC Board Chair and Bruce Power ALARA Refurbishment Director, wishes to **challenge each ISOE member RPM** to share the ALARA symposium presentations with their Station ALARA Committee members and appropriate plant staff. Feedback on this new initiative will be evaluated by Mr. Pritchard and determine if the participation rate justifies providing global ZOOM presentations to all ISOE utility and regulatory members for the January 2022 International Symposium.

Hope to see you in January 2022 in Key West!

Please continue to be safe and healthy in 2021.

Kind Regards,

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