

**2023 Professional Enrichment Program:  
Continuing Education Course**

**Monday, January 30, 2023 from 1:00 pm to 5:00 pm  
Fort Lauderdale North Marriott, 6650 N. Andrews Avenue  
Fort Lauderdale, Florida, USA 33309 +1 954-771-0440  
Cypress Ballroom**

**PEP Continuing Education Courses are scheduled prior to the 2023 International ISOE ALARA Symposium in the same hotel. Radiation Protection professionals from Canada, Europe, Japan, U.S. and other countries world-wide are planning to attend and participate.**

**PEP Course Academic Dean: David W. Miller, PhD. NPRE, University of Illinois at Urbana-Champaign.**

**Registrants receive a certificate showing the completion of the continuing education course.**

**Contact Amy Keep (Moeller) at [almoeller88@gmail.com](mailto:almoeller88@gmail.com) or [dmiller@illinois.edu](mailto:dmiller@illinois.edu) if you have any questions.**

Note, Day 1 of the 2023 ALARA Symposium is on Tuesday, January 31, 2023 due to allow travel on Monday when airports are less crowded.

**PEP Objectives: To provide utility and regulatory health physicists with the latest technology in occupational dose reduction available through the global ISOE program:**

- To brief RPMs and their ALARA staff on the current and future ALARA Tools (new technology) to support ISOE Members' quest for world class ALARA performance in refueling outages with special emphasis this year on technical considerations on wide-range noble gas accident range effluent monitors (Revised RG 1.21), robotics, verification of adequacy of temporary shielding using 3D isotopic mapping using pixelated CZT technology and chemical engineering aspects of source term reduction at NPPs. Analysis of the root causes and contributing causes of US high Radiation Area (HRA) NRC Violations will be discussed to prevent reoccurrence in Spring, 2023 refueling and maintenance outages.
- To train attendees on ALARA data and reports available on the ISOE Website at [www.isoe-network.net](http://www.isoe-network.net) including sister plant comparison tables for Station ALARA Committee annual dose establishing resource.
- To learn how ALARA techniques have achieved significant outage dose reduction and substantial cost savings at operating BWRs, PWRs and CANDUs.
- To provide a training session on how to enter ISOE annual site dose and RWP planning data to assist site ALARA & outage planning professional in refueling/maintenance/refurbishment outages

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AGENDA:

- 1:00 pm **Welcome and PEP Overview**
- 1: 10 pm **Development of Isotopic Correction Factors for General Atomics Wide Range Noble Gas Monitors at Constellation**  
Meagan Robinson, Constellation EP
- 2:00 pm **Lessons Learned on Plant-wide Radiation Monitoring System Replacements at PWRs & BWRs**  
David W. Miller, NATC, University of Illinois
- 2:15 pm **Alpha Monitoring Challenges related to RP Inspector Observations**  
TBA
- 2:30 pm **Los Alamos Advanced Radiation Safety Training Modules**  
(Levels I-IV Training Stages) TBA
- 3:00 pm Break
- 3:15 pm **Solving Common Problems with Degrading Radiation Source Term: How to Reverse the Trend**  
Patricia Robinson, President, n,P Energy & Paul Skinner, former Turkey Point Chemistry Supervisor
- 3:45 pm **Pixelated CZT 3D Technology, Past and Future NPP Applications Including Results of Palisades & Sequoyah Spectra Measurements**  
David Nestle, H3D, Inc. Following PWR CRUD Bursts and Ag-110m Analysis
- 4:45 pm **ISOE Website Features for ALARA Planners and RPMs, including ISOE sister Plant Task and Dose Database for Use in RWP Preparation**  
David W. Miller, NATC ISOE Regional Director, NPRE, The Grainger College of Engineering, University of Illinois
- 5:00 pm **2023-2026 ISOE Strategic Initiatives & PEP Course Summary – Adjournment**

Note: ABPH Continuing Education Credits are approved for the PEP and Symposium Educational Hour