

# 2014 North American ISOE ALARA Symposium Agenda

**Hyatt Regency Pier Sixty-Six  
2301 S.E. 17<sup>th</sup> Street Causeway  
Ft. Lauderdale, Florida 33316 USA  
Phone: 954-525-6666**

**Management of Worker Doses During Refueling Outages:  
Lessons Learned at PWR, BWR & CANDU  
Plus**

**Introduction of New ISOE Expert Group Reports:**

- I Water Chemistry & Source Term Reduction Technologies
- II Management of Worker Doses during Severe Accident Conditions

<b>Monday, January 13, 2014</b>		<b>Location</b>
7:00 am	Registration	<b>Crystal Foyer</b>
8:00 am	<b>Welcome</b> – John M. Palms, PhD	<b>Crystal Ballroom A</b>
<b>Session Chairs:</b> John Palms, PhD, Distinguished President & Professor Emeritus, University of South Carolina, Exelon Board Member Emeritus & NATC Honorary Board Chair & David W. Miller, NATC		
<b>Plenary Session I: Senior Management Engagement in Fukushima Severe Accident Lessons Learned</b>		
8:10 am	<b>2013 ISOE Nuclear Professional of the Year Awardee:</b> <b>College of Engineering, Un of Illinois Award Presented by John M. Palms to Larry Weber, CNO &amp; Senior Vice President, Cook Nuclear Plant, American Electric Power</b> <b>Invited CNO Presentation: Development of an Effective Nuclear Safety Culture</b> (presented by Larry Weber at the 2012 Asian ISOE Symposium, Tokyo, Japan)	
8:45 am	<b>Exelon Board Governance Approach to Achieving Fleet Excellence in Nuclear Operations &amp; Nuclear /Radiological Safety</b> John Palms, PhD, Exelon Board Member Emeritus, University of South Carolina	
9:15 am	<b>2013 John Palms PhD Outstanding Innovation Award presented to the following For Adopting New Technology to Achieve Significant PWR Outage Dose Reduction.</b> Braidwood Station is the First Recipient of this Prestigious Award from the College of Engineering, University of Illinois. <ul style="list-style-type: none"> <li>• <b>Mark Kanavos, Vice President, Braidwood, Exelon Generation</b></li> <li>• <b>Jamison Rappeport, Chemistry Manager</b></li> <li>• <b>Rick Leasure*, RPM, Braidwood Station</b></li> <li>• <b>Harry Miller, Radiological Engineer, Braidwood</b></li> </ul> <b>Braidwood Unit 2 Record Refueling Outage Dose*</b>	

<b>Monday, January 13, 2014 (continued)</b>		<b>Location</b>
9:30 am	Coffee Break	Crystal Foyer
<b>Session II: Global Innovations &amp; ALARA Excellence Awards</b>		<b>Crystal Ballroom A</b>
9:45 am	<b>Decommissioning Activities at the NEA</b> Michael Siemann, Head, Radiological Protection & Radioactive Waste Management Division, OECD Nuclear Energy Agency	
10:15 am	<b>2013 ISOE World Class ALARA Performance Award presented to Farley 1, 2, Southern Company by John Palms, PhD to the following:</b> <ul style="list-style-type: none"> <li>• <b>James J. Hutto- Plant Manager</b></li> <li>• <b>William A. Vierkandt*- Site RPM</b></li> <li>• <b>James R. Dixon Jr.- Fleet RPM</b></li> </ul> <b>Farley's Outage Dose Achievements*</b>	
11:00 am	<b>Radiation Measurement Experience and Lessons Learned in Response to the Fukushima Nuclear Complex Accident</b> Frazier Bronson, CHP, Vice President, Canberra	
11:55 am	<b>Tribute to Wataru Mizumachi</b> , ISOE Bureau Chair Emeritus & Father of GE Advanced BWR, 1942 -2013 by Drs. Tadashi Narabayashi & David W. Miller	
<b>12:00 noon</b>	<b>Lunch</b>	<b>Crystal Foyer</b>
<b>Session III: Recent ALARA Achievements</b>		
<b>Session Chairs: David W. Miller, NATC, Cook Nuclear Plant &amp; Rick Doty, University of Illinois</b>		
1:00 pm	<b>INPO RP Challenges in 2014</b> Kevin Pushee, INPO RP Manager	
1:30 pm	<b>Polaris Gamma-ray Imaging Spectrometry for NPPs</b> Dr. Zhong He, University of Michigan	
2:15 pm	<b>ALARA &amp; Fukushima Design Considerations at Vogtle 3, 4: New Construction</b> Jim Dixon, Fleet RPM, Southern Company	
2:45 pm	<b>Coffee Break</b>	<b>Crystal Foyer</b>
3:00 pm	<b>ISOE Expert Group Management of Worker Dose during Severe Accident Conditions</b> Ellen Anderson, Nuclear Energy Institute, US	

3:30 pm      **Critical Surveys Innovations are Alive & Well in Radiation Protection**  
Bob Hite, Cook Nuclear Plant, American Electric Power

4:00 pm      **Activities of the ICRP**  
Don Cool, PhD, ICRP Committee 4 Chair

**5:30 pm –**      **Opening Vendor Reception (All Attendees Invited)**      Crystal Ballroom A  
**7:00 pm**

**Tuesday, January 14, 2014**

**\*All Technical Sessions will be held in Crystal Ballroom A; All breaks / lunch will be served in the Crystal Ballroom B (Vendor Ballroom) – Tuesday / Wednesday**

7:00 am          Continental Breakfast

**Session IV: Source Term Reduction Methodologies**

**Session Chair: Patty Jones, Calvert Cliffs, Exelon Nuclear**

8:00 am          **Fermi 2 BWR Outage Dose Reduction Achievements**

Rick LaBurn, Fermi, Detroit Edison Company (invited)

8:30 am          **Depleted Zinc Addition Experience at Swiss NPPs**

Johannes Hammer, Swiss Regulatory Authority, Switzerland

9:00 am          **Industry Update on Zinc PWR Injection**

David Perkins, EPRI

9:30 am          **Radioiodine Challenges at LaSalle Station\***

John Moser & Ed Wolf\*, LaSalle Station, Exelon

**10:00 am          Coffee Break**

10:30 am          **Engineered Shielding Solutions: Innovative Alternatives to Traditional Concrete Block Shielding in BWR's**

David Thompson, Duke Energy & John Kremer, Radiation Protection Systems

11:00 am          **Development of On-line Co-60 Monitoring System**

Hirofumi Matsubara, Hitachi-GE Nuclear Energy

11:30 am          **Shutdown Chemistry: A Coordinated Effort Between Chemistry, Radiation Protection and Outage Management**

David Perkins, EPRI

**12:00 noon      Lunch**

**Session V: Radiological Work Management at Nuclear Power Plants**

**Session Chair: Rick Doty, NATC, University of Illinois**

1:30 pm.          **ALARA Experience during Steam Generator Replacement at Prairie Island Nuclear Plant**

Brad Boyer, RPM, Prairie Island

2:00 pm          **ISOE Programme Update**

Halil Burçin OKYAR, ISOE Scientific Secretary, OECD NEA, Paris

**2:30 pm          Coffee Break**

**Session VI:**

**Session Chair: Terry Brock, ISOE Coordinator, USNRC**

- 3:00 pm      **NRC Update on ALARA Activities Regulatory Discussion**  
Steven Garry, USNRC
- 3:30 pm      **Activities of the Canadian Nuclear Safety Commission**  
Salah Djeflal, CNSC, Ottawa, CANADA
- 4:00 pm      **Options for Revision of Radiation Protection Standards - Further Considerations**  
Donald Cool, USNRC
- 4:30 pm      **Regulatory Panel Discussion,** Terry Brock, Moderator, Billy Dickson, Steven Garry,  
Martin Phallen, Salah Dejeffal and Johannes Hammer.
- 5:00 pm      **Adjourn**

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**Wednesday, January 14, 2014**

7:00 am      Continental Breakfast

**Session VII: ALARA Outage Lessons Learned**

**ALARA Goals**

Session Chair: **Bob Hite**, Cook Nuclear Plant, American Electric Power

8:00 am      **Three Mile Island 2 Accident Radiological Lessons Learned**  
David W. Miller, NATC, Cook Nuclear Plant, AEP

8:30 am      **The Alpha Blind Spot and the Implications for Health Physics**  
Maureen McQueen, Consultant

9:00 am      **Cook Alpha Program Implementation Results & Areas for Improvement**  
Joe Beer, CHP, Cook Nuclear Plant. AEP

**9:30 am      Break**

**Session VIII: Information Exchange for Long Term ALARA Planning**

Session Chair: **Bob Hite**, Cook Nuclear Plant, AEP

10:00 am      **EDEX Methodologies for Nuclear Power Plants**  
David Perkins, EPRI

10:30 am      **CRPPH Case Studies: Design Criteria, Dose Constraints & Integration of Risk Management**  
Halil Burçin OKYAR, ISOE Scientific Secretary, OECD NEA, Paris

11:00 am      **Update on Bruce ALARA Program**  
Colin Pritchard, Bruce Power, Ontario, Canada

11:30 am      **Filtered Vent System at Leidstadt Nuclear Power Plant**  
Andreas Ritter, RPM, Leidstadt, Switzerland

12:00 Noon      **Lunch**

## **Session X: International ALARA Session**

- 1:30 pm      **Palo Verde Unit 3 Bare Metal Inspection & Repair ALARA Experience**  
Carl Moeller, Palo Verde Nuclear Station 1, 2, 3
- 2:00 pm      **Prairie Island Indian Community Experience with Fukushima Tour**  
Ron Johnson, Tribal Leader, Prairie Island Indian Community
- 2:30 pm      **Engineering Lessons Learned from Fukushima Daiichi NPP's Accident**  
Dr. Tadashi Narabayashi, Nuclear & Environmental Systems, Hokkaido University, Japan
- 3:30 pm      **Meeting Summary**  
David W. Miller, NATC ISOE, College of Engineering, University of Illinois
- 4:00 pm      **Meeting Adjourns**

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**Questions/ contact information regarding the symposium:**

**Dr. David W. Miller: (cell) 217-855-3238 [dmiller@illinois.edu](mailto:dmiller@illinois.edu)**

**Amy Moeller: (cell) 269-930-0753**