

# 2016 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**

**Reduction in Costs & Worker Doses During Outages:  
Good Practices & Lessons Learned at PWR, BWR & CANDU**

**Plus**

**Comprehensive Update on the Restarting of Japanese Nuclear Power Plants Based  
On Lessons Learned from the Fukushima Daiichi Accidents**

<b>Monday, January 11, 2016</b>		<b>Location</b>
7:00 am	Registration	<b>Crystal Foyer</b>
8:00 am	<b>Welcome - John Palms, PhD</b>	<b>Crystal Ballroom A</b>
<b>Session Chair:</b> John Palms, PhD, Distinguished President & Professor Emeritus, University of South Carolina, Exelon Board Member Emeritus & NATC Honorary Board Chair		
<b>Plenary Session I:</b> Restarting of Japanese Nuclear Power Plants Based On Lessons Learned from the Fukushima Daiichi Accidents		
8:05 am	<b>Lessons Learned from the Fukushima Daiichi Accident and Safety Improvements at Kashiwazaki Kariwa Nuclear Power Plant</b> Shinichi KAWAMURA, General Manager, Nuclear Asset Management Dept. & Nuclear Seismic Engineering Center, Tokyo Electric Company, JAPAN	
9:00 am	<b>Restart Status of Japanese NPPs, Filtered Containment Venting System (FCVS), New Regulatory Requirements &amp; Super Engineer Education Project</b> Dr. Tadashi Narabayashi, Nuclear & Environmental Systems, Hokkaido University, Japan	

<b>Monday, January 11, 2016 (continued)</b>		<b>Location</b>
<b>9:45 am</b>	<b>Coffee Break</b>	<b>Crystal Foyer</b>
<b>Session II: Global ALARA Excellence</b>		<b>Crystal Ballroom A</b>
10:00 am	<b>Canadian Perspective on Eye Dose &amp; International Recommendations</b> <b>Doug Chambers</b> , Director Technical Knowledge & Innovation-Radiological Sciences ARCADIS, CANADA	
10:30 am	<b>Nuclear Fuel CRUD Formation &amp; Behavior Including Chimney Effects</b> Professor James Stubbins, Head, Nuclear, Plasma & Radiological Engineering Department, University of Illinois	
11:00 am	<b>RPM Challenges in the Transition from Operations to Decommissioning Plant Status:</b> Radiological Protection Professional of the Year Award from College of Engineering, Un. of Illinois: Citation Presented by Professor Stubbins, Head NPRE <b>Recipient: James Mike Hale, RPM Kewaunee Nuclear Plant, Dominion Generation</b>	
11:30 am	<b>2015 ISOE World Class ALARA Performance Award</b> <b>Presented to Ginna Nuclear Power Plant, Exelon for Outstanding Refueling Outage Worker Dose Reduction. Citation presented by Dr. John M. Palms, Distinguished President Emeritus, University of South Carolina &amp; NATC Honorary Board Chair</b>  <b>Recipients for the Employees and Contractors at Ginna Nuclear Power Station:</b> <b>Joseph Pacher, Site Vice President      William Carsky, Plant Manger</b> <b>Kenneth Gould, RP Manager              James Bement, Rad Eng Manager</b> <b>Christian Singley, Sr. RP ALARA Spec   Lynda Fileppi, Sr. RP ALARA Specialist</b> <b>Billie Childers, RP Supervisor              Chan Vasey, RP Supervisor</b>	
<b>12:00 noon-</b>	<b>Lunch</b>	<b>Crystal Ballroom A</b>
<b>Session III: Recent ALARA Achievements</b>		
<i>Session Chair:</i> <b>David W. Miller, NATC, Cook Nuclear Plant</b>		
1:00 pm	<b>Recognition of Willie Harris, ISOE Bureau Chair-Elect &amp; Chair 2010-2014</b> Citation by Dr. John M. Palms, NATC Honorary Board Chair	
1:10 pm	<b>Radiation Protection at Swiss Nuclear Installations</b> Johannes HAMMER, Section Head Occupational Radiation Protection ENSI, Swiss Federal Nuclear Safety Inspectorate, SWITZERLAND	

1:30 pm	<b>Polaris Gamma-ray Imaging Spectrometry for NPPs</b> Dr. Zhong He, Professor of Nuclear Engineering, University of Michigan	
2:00 pm	<b>ALARA Successes with Cook Dry Cask Campaign</b> David Wood, RPM, Cook Nuclear Plant, American Electric Power	
2:30 pm	<b>Coffee Break</b>	
3:00 pm	<b>Effects of Chronic Cosmic Space Radiation Exposure on the Human Brain</b> (From ongoing studies by NASA, Brookhaven National Laboratory, McKnight Brain Institute, Cold Springs Harbor National Laboratory, Van Andel Cancer Institute and Tufts Neuroscience and Aging Laboratory – Dr. Chamberland is a Principal Investigator)  <b>Dennis Chamberland, PhD</b> NASA Biomedical Engineering and Research Lab Spaceport Integration Office SI-E10 John F. Kennedy Space Center, NASA	
4:00 pm	Vendor Face-to-Face	
5:00 pm	Adjourn	
<b>5:30 pm – 7:00 pm</b>	<b>Opening Vendor Reception All Attendees Invited</b>	<b>Ballroom A</b>

## **Tuesday, January 12, 2016**

7:00 am	Continental Breakfast	<b>Foyer</b>
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### **Session IV: Source Term Reduction Methodologies**

**Cypress D**

*Session Chair:* **Rick Laburn, RPM, Fermi 2**

8:00 am	<b>Pluto New Horizons Mission and Extended Kuiper Belt Mission Review</b> (Impressive Photos of Pluto first ever obtained by NASA) <b>Dennis Chamberland, PhD</b> <b>NASA Biomedical Engineering and Research Lab</b> <b>Spaceport Integration Office SI-E10</b> <b>John F. Kennedy Space Center</b>
8:45 am	<b>INPO RP Challenges in 2015 &amp; Program Plans in 2016</b> Mr. Paul McNulty INPO RP Manager
9:30 am	<b>Source Term Challenges at LaSalle Station</b> Ed Wolf, LaSalle Station, Exelon

- 10:00 am      Coffee Break**
- 10:30 am      **Braidwood Refueling Outage ALARA Successes**  
Jeff Cady, RPM, Braidwood Station, Exelon
- 11:00 am      **Review of Industry Source Term Reduction & Monitoring Practices & Lessons Learned**  
Carola Gregorich, EPRI
- 11:30 am      **Low Dose Risk to Cardiovascular Diseases**  
Don Cool, EPRI
- 12:00 noon      Lunch**

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

*Session Chair:* **David Miller, NATC, University of Illinois**

- 1:00 pm.      Utility RP/ALARA Programs & the Nuclear Promise Initiatives to Reduce NPP Operating Costs**  
Harry Bush, Dresden, Exelon Nuclear
- 1:45 pm      **Bruce Power's Plant Life Extension to 2064 & ALARA Program Highlights**  
Colin Pritchard, Bruce Power, Ontario, Canada
- 2:30 pm      Coffee Break**

**Session VI:**

*Session Chair:* **Nathalie Gadbois, Canadian Nuclear Safety Commission, Ottawa**

- 3:00 pm      **Update on Swiss Nuclear Regulations**  
**Johannes HAMMER, Section Head Occupational Radiation Protection**  
**ENSI, Swiss Federal Nuclear Safety Inspectorate, SWITZERLAND**
- 3:15 pm      **ISOE MADRAS Database Use in Preparing Annual Part 20 RP Program Review**  
Richard Doty, NATC, University of Illinois
- 3:30 pm      **NRC Update on ALARA Activities Regulatory Discussion**  
**David Garmon, USNRC**
- 4:00 pm      **Regulatory Panel Discussion:** David Garmon, Louis Carson, Valerie Myers, Johannes Hammer, Harry Anagnostopoulos, & Bruce Dione
- 5:00 pm      **Adjourn**

## Wednesday, January 13, 2016

7:00 am Continental Breakfast

### Session VII: ALARA Outage Lessons Learned

#### ALARA Goals

*Session Chair:* **David Wood**, Cook Nuclear Plant, American Electric Power

8:00 am **Browns Ferry Unit 1 Source Term Successes**  
John Underwood, TVA

8:30 am **EPRI Radiation Safety Program Review (including Cavity Decon Studies)**  
Phung Tran, EPRI

9:00 am **Preliminary Results of 2015 Nuclear Engineering Senior Design Class Studies for Palisades, Cook and Quad Cities**  
David Miller, NATC, University of Illinois

**9:30 am Break** **Ballroom A**

**Session VIII: Session IX: ALARA at Decommissioning Sites** **Ballroom A**

*Session Chair:* **Doug Noble**, Davis Besse, First Energy Corp.

10:00 am **Comparison of Decontaminations Performed at BWR ISAR1 and PWRs Unterweser & Necharwestheim 1**  
Karla Harper, AREVA

10:30 am **ISOE Expert Group on Decommissioning Activities**  
Mike Hale, Chair / RPM Kewaunee Nuclear Plant

11:00 am **Pickering ALARA Program Highlights- Leveraging Technology for Dose Reduction**  
Karen McDougall, Section Manager, ALARA, Pickering Nuclear, Ontario Power Generation, Canada

11:30 am **Development of Practical Guidance for Workplace Monitoring in Nuclear & Radiation Facilities**  
Magamani Suriya Murthy, Jiweng Ma & Miroslav Pinak, IAEA, VIENNA

12:00 Noon **Lunch** **Ballroom A**

**Session IX: International ALARA Session** **Ballroom B**

1:00 pm **AgX for a Simplified FCVS & Other Applications**  
Sanshiro Kobayashi, Morinura Bldg  
Toshiki Kobayashi & Koji Endo RASA Industries

- 1:30 pm      **Isotopic Mapping Experience during First Refueling Outage after Steam Generators Replacement at Prairie Island**  
Brad Boyer, RPM Prairie Island Nuclear Plant
- 2:30 pm      **Palisades Fall 2015 Refueling Outage ALARA Challenges**  
David Nestle, RPM, Palisades, Entergy
- 3:00 pm      **2015 NATC Senior Nuclear Engineering Class Dry Cask Design Study Results**  
James Stubbins & David Miller, College of Engineering, University of Illinois
- 3:15 pm      **Japanese Government New Program to Develop “Super Engineers”  
To Address the Challenges of Fukushima Severe Accident Recovery/Cleanup:**  
Explanation of NATC plans including sites for the 3- year program to train  
Engineers from Tokyo, Hokkaido & Kyoto Universities in radiological *engineering principles to create a strong radiological and nuclear safety culture for Japanese NPPs*  
David Miller, NATC, University of Illinois
- 4:00 pm      **Meeting Summary**  
David W. Miller, NATC ISOE
- 4:00 pm      **Meeting Adjournment**

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Please note the January 8-11, 2017 International ISOE ALARA Symposium will celebrate the **25<sup>th</sup> Anniversary** of the Information System on Occupational Exposure. The North American ISOE member will be hosting the symposium. Please plan to attend and email your program topic suggestions to [dmiller@illinois.edu](mailto:dmiller@illinois.edu)