2012 International ISOE ALARA Symposium
Sunday, January 8 - Wednesday, January 11, 2012
Hyatt Regency Pier Sixty-Six
2301 S.E. 17th Street Causeway
Ft. Lauderdale, Florida 33316 USA

First Announcement & Call for Papers:
Fukushima Severe Accident Recovery & Global ALARA Lessons Learned:
20th Anniversary of ISOE Program

Sponsored by the North American Technical Center (NATC)
Information System on Occupational Exposure (ISOE)

You are invited to attend and help commemorate the 20th Anniversary of ISOE:

Contact: David W. Miller, 217-855-3238 (cell) or dwmiller2@aep.com, dmill@illinois.edu, www.isoe-network.net, or nartisoe.org
AmyMoeller, 1-269 930-0753 or almoeller1@yahoo.com

Organization of Economic Cooperation & Development Nuclear Energy Agency
(OECD/NEA, Paris)

International Atomic Energy Agency
(IAEA, Vienna)
International ISOE ALARA Symposium Objectives:

The 2012 International ISOE ALARA Symposium will commemorate the 20th Anniversary of the global ISOE program started in Paris in 1992. International ISOE symposia have been organized since 1997 to provide a global forum to promote the exchange of ideas and management approaches to maintaining occupational radiation exposures As Low As Reasonably Achievable (ALARA). This is the Fifteenth International ISOE ALARA Symposium sponsored by the ISOE Technical Centers. The purpose of the 2012 International ISOE ALARA Symposium is for radiation protection professionals to exchange dose reduction practices and lessons learned globally to assure safe and efficient operation of the 430 operating power reactors.

The 2012 International ISOE Symposium is sponsored by the North American Technical Center (NATC), Information System on Occupational Exposures (ISOE) and supported by the International Atomic Energy Agency (IAEA- Vienna) and the OECD/Nuclear Energy Agency (NEA-Paris). NATC is one of four ISOE Technical Centers that include Paris, Vienna, and Tokyo.

The 2012 North American ISOE ALARA Symposium has organized a special session of radiological work management practices that have achieved shorter refueling outages and occupational dose reduction. Effective methods of planning, scheduling, training and managing refueling and service outages will be presented.

The North American ALARA Center is located at the D.C. Cook Nuclear Power Plant, American Electric Power in Bridgman, Michigan, USA. NATC’s occupational dose research section is located in the Department of Engineering, University of Illinois at Urbana-Champaign, Illinois, USA. The Information System on Occupational Exposure (ISOE) was established in 1992 by the Nuclear Energy Agency (OECD/NEA) in Paris and since 1993, the International Atomic Energy Agency (IAEA) in Vienna has co-sponsored the ISOE program. Official participants to the ISOE program include 66 utilities in 26 countries (320 operating reactors, 40 shutdown reactors) and regulatory authorities in 24 countries. The ISOE database itself includes information on occupational exposure levels and trends at 401 operating reactors in 29 countries, covering about 91% of the world’s operating commercial NPPs.

The symposium will feature technical papers and exhibits on the latest approaches in work management, dose control, remote monitoring and dose measurement. Each participant will receive important BWR, CANDU, and PWR & VVER benchmarking data from previous years’ occupational dose performance. The ALARA 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 ALARA initiatives are also shared at the symposium. Stations achieving World-class ALARA Performance in 2011 are recognized at the ALARA Symposium.

Global ALARA technical papers will be presented on timely radiation protection management topics including depleted zinc addition at PWRs, noble metal addition experience at BWRs, CANDU heat exchanger tubing replacement projects, outage radiological worker management approaches and PWR reactor head inspection, repair and replacement experience.

**Other Meetings:**

Immediately following the symposium, on Thursday, January 12 the International RPM Day and International Regulator Day will be held in the same hotel. US NRC Region III Radiation Protection Managers Meeting will continue on Friday, January 13, 2012. These meetings are organized separately from the Symposium and are free of charge. Please contact the relevant contact person for more information and check the ISOE Website:

- Regulatory Body Representatives Meeting
  Contact persons: Salah Djeffal, CNSC, Ottawa, Canada (salah.djeffal@cnscccsn.gc.ca) Doris Lewis, US NRC, doris.lewis@nrc.gov

- Radiation Protection Managers Meeting
  Contact persons: Willie Harris, Exelon Fleet RPM, willie.harris@exeloncorp.com

Attendance at these meetings will be available to all ALARA Symposium Registrants. More information on the Symposium and RPM/Regulatory Day will be made available on the ISOE website: www.isoe-network.net

**Location:**

The 2012 International ISOE ALARA Symposium will be held at the Hyatt Regency Pier Sixty-Six, Ft. Lauderdale, FL, less than 5 miles from the Ft. Lauderdale International Airport. The dates of the symposium are Sunday evening January 8, 2012 to Wednesday, January 11, 2012. Special group rates have been provided for the symposium attendees of $179 USD, plus applicable taxes. The beautiful resort hotel has just undergone a $30 million redesign, has over 384 guest rooms (tower and pod-style), three-pool oasis including a rejuvenating 40-person hydrotherapy pool and eight deluxe cabanas, 127-slip marina, lighted Har-Tru tennis courts, onsite rental car service, and a convenient location to all the area has to offer via the city’s Water Taxi that departs from the resort’s marina. Reservations can be made directly via the below link or by calling the Hyatt Regency Pier Sixty-Six direct.

[https://resweb.passkey.com/go/InternationalAlaraSymposium](https://resweb.passkey.com/go/InternationalAlaraSymposium)
+1 954-525-6666  fax +1 954-728-3541
Travel Arrangements:

Major airlines provide service to the Ft. Lauderdale International Airport (3 miles from hotel) or Miami International Airport (22 miles from hotel) from major cities throughout the world. Discounted airfares are available especially if you are able to stay over on Saturday night. You are encouraged to make your hotel reservations early since Saturday hotel space in the Ft. Lauderdale is at a premium at this time of the year.

Sponsorship:

The Symposium is sponsored by the North American Regional Technical Center, ISOE, NEA/IAEA.

Language:

The working language of the Symposium will be English.

Contact Person:

David W. Miller, Ph.D.
Technical Program Chair-2012 International ISOE ALARA Symposium
North American Technical Center
College of Engineering, University of Illinois
216 Talbot Laboratory MC-234
104 South Wright Street
Urbana, Illinois 61801-2983
Off. 1-269 466 3428, Fax 1 269-466-3389
Internet: dmiller@illinois.edu or dwmiller2@aep.com

Program Committees:

Honorary Program Chairman:
Dr. John Palms, Exelon Board Member
NATC Honorary Board Chairman.

International Program Committee Includes:
David W. Miller, North American Technical Center, dwmiller2@aep.com,
Caroline Schieber, European Technical Center, Paris, schieber@cepn.asso.fr
Yoshihisa Hayashida, Asian Technical Center, Tokyo hayashida-yoshihisa@jnes.go.jp
J. Ma, IAEA, Vienna J.Ma@iaea.org & Halil Burçin OKYAR, OECD Nuclear Energy
Agency (NEA), halilburcin.okyar@oecd.org (co-secretariats)

North American Program Committee:
Richard Doty, NATC External Affairs Coordinator Willie Harris, Exelon Fleet RPM
David Miller, D.C. Cook NPP, Michigan Doug Noble, Davis Besse RPM
Mike Hale, Kewaunee RPM Sergio Zorilla, Laguna Verde NPP, Mexico
Maureen McQueen, Bruce Power, Canada  Patty Jones, Calvert Cliffs  
Doris Lewis, US NRC ISOE Coordinator  Salah Djeffal, CNSC ISOE Coord.

Registration Fee:

The 2012 North American ALARA Symposium registration fee is $550 US for early registrants (by December 23, 2011) and $650 US for registrants after December 23, 2011. The registration fee is payable by cash, check, money order or major credit card (American Express, VISA, or Master Card). All registrants will receive the Symposium Binder, Leather Portfolio, 20th ISOE Anniversary commemorative pin and tickets to sponsored receptions and luncheons.

Who Should Attend?

The 2012 International ALARA Symposium is an excellent forum for Radiation Protection Managers, ALARA engineers, outage planners, and regulatory health physicists. In addition, plant managers, outage directors, chemists and maintenance supervisors have found the ALARA seminars to be very valuable to meeting company commitments to ALARA training. Plans include participation from over 10 countries at the 2012 International ISOE ALARA Symposium. Vendors are also welcome to participate in the Vendor Exhibition Hall. Please contact Amy Moeller for information.

Vendors:

An Exhibition Hall has been arranged immediately across from the symposium ballroom. All coffee breaks will occur in the Vendor Exhibition Hall. A vendor registration form is provided in Attachment #5. Please contact the Amy Moeller, NATC, Event Planner at cell +1 269-930-0753 or almoeller1@yahoo.com, for more information.

Topics for Symposium:

The 2012 International American ISOE ALARA Symposium Technical Program Committee has chosen the theme of:

Fukushima Severe Accident Recovery & Global ALARA Lessons Learned: 20th Anniversary of ISOE Program

The Technical Program Committee encourages technical papers that discuss ALARA achievements and lessons learned at nuclear power plants or facilities. The radiological challenges at the Fukushima Severe Accident Recover will be discussed in the Plenary Session. However, additional papers are being sought on how Fukushima will be impact Plant RP Departments globally. Preliminary paper topics include but not limited to:

- Dose Management Challenges of the Fukushima Recovery (ISOE Asian Tech Center)  
- ISOE Expert Group Draft Report of Management of Severe Accident Worker Dose  
- Radiological Implications of Implementing Fukushima Upgrades
"Current Experience with Risk Informed Regulatory Inspections” invited US Nuclear Regulatory Commissioner
New Lens of Eye Dose Limitations Proposed by ICRP (2 Rem/year)
Experience with Outage Dose Reduction & Managing Individual Dose
CZT Source Piping Measurements in France & US
Water Chemistry Impacts on Occupational Dose
ALARA Results of Bruce & Pt. Lepreau Refurbishment
Alpha Controls Lessons Learned in Canada and US
Remote Monitoring Successes in Dose Reduction
PWR Reactor Head Inspections, Repair & Replacement Experience,
RP Best Practices in Alpha Controls, Stop Work Authority & RWP Risk Classif.
Lessons Learned from BWR In-core Instruments Unplanned Exposures
ALARA Planning to Meet the 2015 INPO/WANO Dose Goals

The Technical Program Committee has developed the following additional topics for the 2012 North American ALARA Symposium:

- Work Management
- Outage Length Reduction
- Electronic Dosimeters Experience
- Robotics & Remote Monitoring Systems
- Five Year ALARA Plans
- Radiological Operations
- Decommissioning
- Internal ALARA
- Permanent Shielding Experience
- Radiation Exposure Management
- ALARA Training at NPPs
- Effective Pre-Job ALARA Briefs
- Chemistry Treatments
- Depleted zinc / noble metals injection

**Distinguished Paper Award & World Class ALARA Awards:**

A panel chaired by the Asian Technical Center, ISOE, will be selecting authors to be given the Distinguished Paper Award based on the content and quality of the paper evaluated by the panel. The Distinguished Papers will be presented at the next International ISOE ALARA Symposium or European Technical Center Symposium.

World Class ALARA Performer Award presented to Darlington RP Managers by Dr. John Palms (Exelon Board Member), Wataru Mizumachi (ISOE Bureau Emeritus) and David Miller (NATC).
Please consider submitting a completed nomination questionnaire for your plant to win the prestigious World Class ALARA Performance Award, (see ISOE Website for nomination form).

**Submission of Abstracts:**

Technical paper topics are open to all radiation exposure management subject matter. Prospective authors are requested to submit a brief abstract (250 words maximum) along with the Call for Papers form (Attachment #2) by November 8, 2011. Authors will be notified of their paper's acceptance by November 14, 2011. Papers accepted will be published and distributed to all attendees at the symposium on the ISOE Website.

**Call for Papers/Submission of Abstracts:**

Technical paper topics are open to all radiation exposure management subject matter. Prospective authors are requested to submit a brief abstract (250 words maximum) written in English typed single-spaced in Times new Roman 11 pt (Word format). The abstract/paper should contain the title of the contribution, name(s) of author(s) and institutional addresses (es), Phone/fax numbers and Email address. All Abstracts/papers should be sent to dwmiller2@aep.com along with the Call for Papers form (Attachment #1) by November 7, 2011 (see contact information: address/email below.) Authors will be notified of acceptance by November 14, 2011. Papers accepted will be published and distributed to all attendees at the 2012 symposium. Papers will also be posted on the ISOE website after the symposium (www.isoe-network.net).

Abstracts for papers to be accepted by the Technical Program Committee should be sent to:

David W. Miller                                 Phone: +1 269 466 3428
North American Technical Center/ISOE                      Fax     1 269 466 3389
Department of Engineering          Cell 217 855 3238
University of Illinois at Urbana-Champaign
216 Talbot Laboratory MC-234 Email: dmiller@illinois.edu
104 South Wright Street           dwmiller2@aep.com
Urbana, Illinois USA 61801-2983

**Technical Paper Deadlines:**

Abstract of Paper Due: November 7, 2011
Author Acceptance Notification: November 14, 2011
Full-length Paper due: January 5, 2012

**Symposium Registration Deadlines:**

Early Registration Due: December 7, 2011
Late Registration: December 23, 2011
Hotel Registration Due (for Group Rates): December 7, 2011
To assist the Program Committee please mail or fax the 2012 North American ISOE ALARA Symposium’s registration form (see Attachment #4) to the following address as soon as possible:

David W. Miller, PhD
North American Technical Center/ISOE
Department of Engineering
University of Illinois at Urbana-Champaign
216 Talbot Laboratory MC-234
104 South Wright Street
Urbana, Illinois USA 61801-2983

Phone: +1 269 466 3428
Fax 1 269 466 3389
Cell 217 855 3238
Email: dmiller@illinois.edu
dwmiller2@aep.com

Continuing Education Credits:

The American Board of Health Physics will award continuing education credits to registrants of the 2012 International ISOE ALARA Symposium. A Continuing Education Course is being planned for Sunday, January 8, 2012 before the 2012 International ISOE ALARA Symposium due to positive response received from the Alpha Lessons Learned course offered in January 2011. Subject and details will be posted on the ISOE website.

ISOE Commemorative Items & Reports for Registrants:

The Technical Program Committee has designed commemorative items for the 20th Anniversary of ISOE. Registrants will receive with their registration:

1. Leeds Leather Business Notebook with embossed lettering
2. 20th Anniversary ISOE Lapel Pin
3. ISOE coin purse

ISOE Technical Reports to be distributed include:

1. 2009 ISOE Annual Report
2. ISOE Expert Group Report on RP Design Considerations for New Builds

More Information:

If you have any questions please contact David W. Miller at 1-269-466-3428 or Fax: 1-269-466-3389 or (Internet) dmiller@illinois.edu or dwmiller2@aep.com.

Sincerely Yours,
John Palms, PhD
Distinguished President Emeritus &
Distinguished Physics Professor Emeritus
NATC Honorary Chair &
Exelon Board Member

David W. Miller, Ph.D.
NATC Regional Director,
Information System on Occupational Exposure, OECD/NEA-IAEA
Department of Engineering
216 Talbot Laboratory, MC-234
104 South Wright Street
Urbana, Illinois 61801-2983 USA

Attachments
The North American Technical Center (NATC) is Not-For-Profit Scientific Organization associated with the OECD Nuclear Energy Agency- Paris, France and International Atomic Energy Agency (IAEA)-Vienna, Austria. IRS Tax I.D. # 37-6000511 (University of Illinois).
CALL FOR PAPERS

2012 International ISOE ALARA Symposium
Sunday, January 8 - Wednesday, January 12, 2012
Hyatt Regency Pier Sixty-Six
2301 S.E. 17th Street Causeway
Ft. Lauderdale, Florida 33316
USA

Response Form - Please check the appropriate categories:

[  ] I plan to attend the Sunday, January 8 - Wednesday, January 11, 2012 North American ISOE ALARA Symposium

[  ] I am submitting a paper abstract and a copy of the abstract is attached.

Name: ____________________________________________________________________
Title: ____________________________________________________________________
Organization: ____________________________________________________________________
Address: ____________________________________________________________________
City: _______________________ State/Country: ________________ Zip: ______________
Phone: _______________________ Fax: _________________ Internet ________________

Mail or Fax your response form to David W. Miller, North American Technical Center, ISOE,
Department of Engineering, University of Illinois at Urbana-Champaign, 216 Talbot Laboratory, MC-234,
104 South Wright Street, Urbana, Illinois 61801-2983 USA
Phone: 269 466 3428
Cell 217 855 3238
Fax: (269 466 3389
Internet: dmiller@illinois.edu, dwmiller2@aep.com

Technical Paper Deadlines:
Abstract of Paper Due: November 7, 2012
Author Acceptance Notification: November 14, 2012
Full-length Paper Due: January 5, 2012

Early Registration due by January 6, 2012

[  ] NRRPT Registered Member
Meeting Registration Form

2012 International ISOE ALARA Symposium
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USA

Registration fees cover attendance at all sessions of the symposium. A thumb drive containing presentations from the 2012 International ISOE ALARA Symposium will also be provided.

Please Fill Out Completely

Name: __________________________________________________________________

Last Name                                       First Name                Middle Initial

Title:___________________________________________________________________

Organization:_____________________________________________________________

Address:________________________________________________________________

City:                                                /                            /                                 /___________

State/Country:   Zip Code:

Phone:_________________   Fax: ___________________   Email:_________________

Registration Fees Paid by December 23, 2011 $550.00

Registration Fees Paid After December 23, 2011 $650.00

Walk-In Registrants are Welcome if Symposium Space is Available
Please make checks payable to NATC ISOE.
Mail Registration Forms to:

David W. Miller, North American Technical Center, ISOE, Department of Engineering,
University of Illinois at Urbana-Champaign, 216 Talbot Laboratory, MC-234, 104 South Wright Street, Urbana, Illinois 61801-2983 USA
Meeting Registration Form

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USA

Payment by visa, wire transfer, check or money order must accompany registration.
Make check payable to NATC ISOE in U.S. funds and mail to:
David W. Miller, North American Technical Center, ISOE, Department of Engineering,
University of Illinois at Urbana-Champaign, 216 Talbot Laboratory, MC-234, 104 South Wright Street, Urbana, Illinois 61801-2983 USA Fax: +1 (269) 466 3389. Phone number is +1 (217) 855 3238 cell or 269 466 3428.

Registrants Name: ____________________________________________

For VISA / Master Card/ American Express Payment Only:

Card Number: __ __ __ __  - __ __ __ __ - __ __ __ __ - __ __ __ __
Expiration Date: __ / __ / __
Month/ Year

Authorized Signature: ______________________________

For Wire Transfer Only:
The payment of the registration fee must be in US dollars by credit transfer to
the bank account of NATC at the following address without any charges for beneficiary account:

Wire to: State Bank of Lincoln
508 Broadway
Lincoln, Illinois, USA 62656
ABA# 071102173
Credit: State Bank of Lincoln

Credit to: North American Technical Center
Checking Account # 23736
Attn.: David Miller
IRS Tax ID # 37-6000511

Dated: ___________ Signature: ____________________________

A receipt will be sent as soon as the registration form is received.
Faxed registrations do not need to be mailed also. Registrations canceled by January 4, 2012 will be refunded less $75 processing fee. After January 6, 2012 there will be no refunds, however, you may send a substitute attendee. Please fax the Registration form to: (269 466 3389).
Hotel Registration:

Please make your hotel reservations directly with the Hyatt Regency Pier 66 by using the link below:

**Hyatt Regency Pier Sixty-Six**
2301 S.E. 17th Street Causeway
Ft. Lauderdale, Florida 33316
USA

[https://resweb.passkey.com/go/InternationalAlaraSymposium](https://resweb.passkey.com/go/InternationalAlaraSymposium)

+1 954-525-6666  fax +1 954-728-3541

directions:

**From Ft. Lauderdale international airport (3 miles):** Take Federal Hwy. North to 17th St. Causeway East. Hotel is on east side of Intercostals waterway.

**From Miami international airport (22 miles):** Take I-95 North to I-595 East. Proceed north on Federal Hwy. to 17th St. Causeway East. Hotel is on east side of Intercostals waterway.