



**EPRI** | ELECTRIC POWER  
RESEARCH INSTITUTE



## **2008 ISOE North American ALARA Symposium/ EPRI Radiation Protection Conference**

January 14-16, 2008



Fort Lauderdale Marriott North  
6650 North Andrews Avenue  
Fort Lauderdale, FL 33309

# 2008 **ISOE** North American **ALARA** Symposium

**Background and Objectives** The 2008 ISOE North American ALARA Symposium/EPRI Radiation Protection Conference is designed to meet the needs of nuclear utility professionals with responsibilities in the areas of radiation exposure control and health physics. The focus will be on all aspects of nuclear plant radiation exposure management and control, including source term reduction, health physics program design and routine operations, ALARA management, improved techniques and tools, safety and cost reduction. The conference will also provide a forum for information exchange between vendors and other members of the industry.

**Who Should Attend** The workshop is directed at utility health physicists, ALARA coordinators, and RP technicians. Chemistry engineers and technicians are also encouraged to attend. Presentations will focus on the latest developments in personnel exposure reduction and radiation field control.

**Registration Schedule** Registration will take place on Sunday from 5:30 pm. – 7:30 pm in the Foyer area of the Cypress Ballroom. The Registration Desk will re-open on Monday at 7:00 am and will remain open all day. The conference will commence at 8:00 am on Monday and conclude at approximately 3:15 pm on Wednesday.

There will be a Continental breakfast, lunch, and coffee breaks each day. The opening vendor reception will be on Monday evening.

**Speaker Breakfast** To encourage communication between speakers and session chairs, there will be a special speaker breakfast on the day of your presentation.

**Conference Registration Fees** The discounted fee is \$425 per person for EPRI, ISOE, and NRPPT members, \$550 for Government (non-ISOE), University and International (non-ISOE), \$350\* for speakers and session chairs, and \$800 for all others. To receive the discounted fee, registration must be received by December 28 AND attendees must be registered at the Fort Lauderdale Marriott North hotel. After this date, there will be an additional fee added to each registration category.

\* Not applicable to co-authors.

To register please go the Cvent registration page at: [www.epri.com](http://www.epri.com) and click on "Events". Go to the Main Calendar and scroll to the appropriate date.

Alternatively, the direct link is: <http://guest.cvent.com/EVENTS/Info/Summary.aspx?e=800a5882-a394-4949-9373-d2fbea447ce4>



Fee includes conference proceedings on disc, three continental breakfasts, three luncheons, one evening reception, and final conference proceedings.

	On or before December 28 Discounted Fees**	After December 28 Full Registration Fees
EPRI Members	\$425	\$475
ISOE Utility Member	\$425	\$475
ISOE Regulatory Member	\$425	\$475
NRPPT	\$425	\$475
Gov.(non-ISOE)/University/International(non-ISOE)	\$550	\$600
Speakers/Session /Co-Chairs	\$350*	\$400
Others	\$800	\$850
Exhibits	\$1,100	

\*Not applicable to co-authors.

\*\*Registration must be received by December 28 AND attendees must be registered at the Fort Lauderdale Marriott North hotel.

# EPRI **Radiation Protection** Conference

## Technical Contact

**Dennis Hussey, Ph.D.**  
Senior Project Manager  
EPRI  
3420 Hillview Ave  
Palo Alto, CA 94304  
Phone: 1 (650) 855-8529  
Fax: 1 (650) 855-7945  
E-mail: [dhussey@epri.com](mailto:dhussey@epri.com)

**David W. Miller, Ph.D.**  
NATC Regional Director  
North American Technical Center  
OCED/NEA & IAEA  
1 Cook Place  
American Electric Power  
Bridgman, Michigan USA 49106  
Phone: 1 (217) 855 3238; Cell: 1 (217) 333 1098  
Fax: 1 (217) 333 2906 NATC; Pager: 1 (800) 454 7907  
[Dwmiller2@aep.com](mailto:Dwmiller2@aep.com) or [dwmphd@aol.com](mailto:dwmphd@aol.com)

## Meeting and Logistical Information

**Linda Nelson, CMP**  
To PLAN Ahead, LLC  
1055 Lamplighter Road  
Niskayuna, NY 12309  
Phone: 1 (518) 374-8190  
Fax: 1 (518) 374-8140  
E-Mail: [lnelson@nycap.rr.com](mailto:lnelson@nycap.rr.com)

## Exhibit Show Contact



**David Miller, Ph.D.**  
North American Technical Center  
OCED/NEA & IAEA  
1 Cook Place  
American Electric Power  
Bridgman, Michigan USA 49106  
Phone: 1 (217) 855 3238 cell 1 (217) 333 1098  
Fax: 1 (217) 333 2906 NATC Pager: 1 (800) 454 7907  
[Dwmiller2@aep.com](mailto:Dwmiller2@aep.com) or [dwmphd@aol.com](mailto:dwmphd@aol.com)

Or



**Tina Jackman**  
Special D Events  
1212 South Washington  
Royal Oak, MI 48067  
Phone: 1 (248) 336-8611  
Fax: 1 (248) 336-8610  
E-mail: [tjackman@specialdevents.com](mailto:tjackman@specialdevents.com)

# Accommodations



**The Fort Lauderdale Marriott North**

## **Guest Room Features:**

- Web TV
- Wireless High Speed Internet Access
- Dual line telephone with dataport
- Mini bar in concierge level rooms
- PlayStations in every room
- 24 hour Room Service - limited menu after midnight
- Video Review Billing , Video Check-out
- Express Check-in and Express Check-out
- Phone calls: toll-free

## **Parking**

- Complimentary on-site parking
- Valet parking, fee: 8 USD daily

## **Fitness Center and Recreation**

- Cardiovascular equipment available with special guest privileges: 24 hours
  - Swimming
- Heated Outdoor Pool
  - Towels provided
  - Hot tub
  - Jacuzzi
  - Whirlpool

## **Area Information**

### **Top Attractions**

- Atlantic Ocean Beaches
- Broward County Art Museum
- Pro Player Stadium

## **Hotel Location Information**

Nestled on a two-acre aquatic preserve, just off I-95, the Fort Lauderdale Marriott North caters to the business and leisure traveler alike. Just steps away from Fort Lauderdale's bustling business district, and yet a short drive to the city's famous beaches, nightclubs and attractions, you'll find that all of your needs for work and play are met at the Fort Lauderdale Marriott North.

## **Hotel Reservations**

Attendees are responsible for making their own hotel room reservations. To obtain the special group rate at the hotel, you must mention this ISOE/EPRI conference. Room rate: \$162+11% room tax for single or double. **Room cut-off date: December 28, 2007.** (After this date, you will be quoted the best available rate). To register by phone, please call 1(800) 228-9290 or 1 (954) 771-0440. You may register on line at <http://marriott.com/property/propertytype/flcc> - Group Code is ISOISOA.

Group Rate: \$162 single or double

Cut-off Date: December 28, 2007

## **Arrival Information**

Check-in: 3:00 PM

Check-out: 12:00 PM

## **Ground Transportation**

From Fort Lauderdale Airport: Estimated taxi fare \$45 USD (one way).

From Miami Airport: Estimated taxi fare \$85 USD (one way).

Airport Express provides shuttle service from the Fort Lauderdale Airport to the hotel. The cost is approximately \$15.00 USD per person for one-way transportation. Arrangements may be made by going to the Ground Transportation Airport Express counter in the baggage claim area. Reservations for return to airport from hotel can be made by calling 1 (954) 561-8888 24 hours in advance.

## **Dress Code**

Business casual dress will be the clothing of choice. This includes khaki slacks, polo type shirts and comfortable shoes for all meetings and resort wear for evening events. Suits, ties, etc. are not required.

## **Driving Directions**

### **From Airport – Fort Lauderdale - FLL 1 (954) 359-1200**

Hotel direction: 11.0 mi N

Driving directions: Take I-595 West to I-95 North to Exit 33B (Cypress Creek West), at 2nd traffic light, turn right on Andrews Avenue. Hotel is 1/2 mile on right.

### **From Airport – Miami - MIA 1 (305) 876-7000**

Hotel direction: 30.0 mi S

Driving directions: Take I-95 North to Exit 33B (Cypress Creek West), at 2nd traffic light turn right on Andrews Avenue. Hotel is 1/2 mile on right.

### **From Airport – Palm Beach - PBI 1 (561) 471-7420**

Hotel direction: 35.0 mi S

Driving directions: Take I-95 South to exit 33 (Cypress Creek Road) go west off exit (right) Take a right at first traffic light (Andrews Ave) Hotel is 1/2 mile on right.

## **2008 ISOE North American ALARA Symposium/ EPRI Radiation Protection Conference**

### **Excellence in Dose Reduction & Work Management at Nuclear Power Plants**

**Fort Lauderdale North Marriott Hotel • Fort Lauderdale, Florida, USA • January 14-16, 2008**

#### **Saturday, January 12, 2008**

8:00 a.m.-5:00 p.m. NRRPT Board Meeting  
National Registry of Radiation Protection Technicians governing board.

#### **Sunday, January 13, 2008**

8:00 a.m.-10:00 a.m. Meeting Registration ISOE & EPRI  
8:30 a.m.-10:00 a.m. ALARA Techniques & Tools  
NRRPT Continuing Education Class  
10:30 a.m.-12:00 p.m. NRRPT Continuing Education Class #2 (TBA)  
1:30 p.m.-3:00 p.m. NRRPT Continuing Education Class #3 (TBA)  
6:00 p.m. - 8:00 p.m. Registration (ISOE, EPRI Symposium registrants)

#### **Monday Theme: Excellence in Dose Reduction & Work Management at Nuclear Power Plants**

#### **Monday, January 14, 2008**

7:00 a.m.-9:00 a.m. Registration  
7:30 a.m. Speakers' Breakfast (Monday speakers)

#### **Plenary Session I : Nuclear Power Plant Excellence for the New Era in Nuclear Energy Expansion**

*Session Chairs: John Palms, Distinguished President Emeritus, University of South Carolina, Exelon Board Member & Wataru Mizumachi, ISOE Bureau Chair, Japan Nuclear Energy Safety Organization*

- 8:00 a.m. Welcome**  
Dennis Hussey (EPRI)
- 8:10 a.m. Revisions to IAEA Radiation Protection Guidelines Based on New ICRP Recommendations**  
David Waller, Deputy Director  
International Atomic Energy Agency, Vienna (invited)
- 8:45 a.m. Review of Biological Effects of Ionizing Radiation**  
US NRC Commissioner (invited)
- 9:15 a.m. 2007 ISOE World Class ALARA Performance Award**  
Presenters: TBA
- 9:45 a.m. Coffee Break**
- 10:00 a.m. Radiation Safety Developments Impacting RP Programs in 2008**  
Ralph Andersen  
Nuclear Energy Institute  
Washington DC
- 10:30 a.m. INPO RP Report: Collective Dose Control Midway to 2010 Goals**  
Jeff Place  
INPO RP Manager
- 11:00 a.m. EPRI Radiation Safety Research Highlights**  
Sean Bushart  
Palo Alto, California



**11:30 a.m. OECD/NEA IAEA International ALARA Program**  
Brian Ahier, Co-Secretariat ISOE  
Paris, France

**12:00 p.m. Lunch**

**Session II : Global ALARA Experiences**

*Session Chairs: Robert Hite, Diablo Canyon and Sean Bushart, EPRI*

**1:30 p.m. French Radiation Safety Program Highlights**  
Yves Garcier, MD  
Vice President, Radiation Protection  
Electricite de France, Paris

**2:00 p.m. Improvements in ALARA Program at Japanese Nuclear Plants**  
Wataru Mizumachi  
Japan Nuclear Energy Safety Organization, Tokyo

**2:30 p.m. Radiation Protection Outage Management at Byron Station**  
David Thompson  
Byron Nuclear Station, Exelon Corporation  
Byron, Illinois

**3:00 p.m. Coffee Break**

**3:30 p.m. Revisions to Canadian Tritium Protection Standards**  
Kevin Bundy  
Canadian Nuclear Safety Commission, Ottawa

**4:00 p.m. Health Physics Challenges at Sizewell B**  
Guy Renn, Sizewell B  
United Kingdom

**5:00 p.m. Announcements (Dennis Hussey, EPRI); Adjourn**

**6:30 p.m. Reception**

**Tuesday, January 15, 2008**

**7:30 a.m. Speakers' Breakfast (Tuesday speakers)**

**Session III: Source Term Reduction Methodologies**

*Session Chairs: John Hunsicker, Summer and Dennis Hussey, EPRI*

**8:00 a.m. EPRI Source Term Research Activities (PWR and BWR)**  
Dennis Hussey  
EPRI

**8:30 a.m. Results from Brown's Ferry Unit 1 Restart**  
John Underwood, TVA

**9:00 a.m. Quad Cities Source Term Turnaround**  
Kenneth Ohr, Quad Cities, Exelon Corporation  
Cordova, Illinois

**9:30 a.m. Source Term Reduction Program at Peach Bottom**  
Cathy Hardy  
Peach Bottom, Pennsylvania

**10:00 a.m. Coffee Break**



**Session IV: ALARA & Equipment Reliability**

*Session Chairs: Kenneth Ohr, Exelon; David Miller, AEP*

- 10:15 a.m. ALARA Considerations For Steam Dryer Replacement at Susquehanna**  
Richard Doty  
Susquehanna Steam Electric Station
- 10:45 a.m. Bruce A Equipment Refurbishment ALARA Challenges and Successes**  
Chris Trahan  
Bruce Power
- 11:15 a.m. Alloy 600 Inspection and Mitigation Dose Performance: 2007 Update**  
Phung Tran  
EPRI
- 11:45 p.m. Lunch**

**Session V: Worker Engagement**

*Session Chairs: Kenneth Ohr, Quad Cities and Phung Tran, EPRI*

- 1:00 p.m. Applied ALARA: A Remote Radiation Monitoring Strategy for CANDU 6 Reactor Retube**  
R. Khaloo, A.M. Rai, C.R. Boss & L. Nosella  
Atomic Energy of Canada Ltd.  
Ontario
- 1:30 p.m. ALARA Incentives at Braidwood Nuclear Station**  
John Moser  
Braidwood Nuclear Plant, Exelon Corporation  
Braidwood, Illinois
- 2:00 p.m. Five Year ALARA Plan Ownership at Cook**  
Carl Moeller  
Cook Nuclear Plant  
Bridgman, Michigan
- 2:30 p.m. Coffee Break**

**Session VI: Strategic Planning**

*Session Chairs: Sean Bushart, EPRI & Rick Leasure, Braidwood*

- 3:00 p.m. Palisades Radiation Protection Program Upgrade Plan**  
Richard Farrell, Palisades  
Covert, Michigan
- 3:30 p.m. OPG Radiation Safety Innovations to Control Tritium**  
Robin Manley, OPG  
Ontario, Canada
- 4:00 p.m. Revisions to US NRC ALARA Regulatory Guides including RG 8.8 and 8.10 for New Plants**  
Ted Block, US NRC  
Terry Brock

**Session VII: NRC Roundtable Discussion**

- 4:30 p.m. US NRC ALARA Observations & Discussion**  
Jim Noggle, NRC
- 5:00 p.m. Adjourn**

**Wednesday, January 16, 2008**

7:30 a.m. Speakers' Breakfast (Wednesday speakers)

**Session VIII: Experience Reports**

*Session Chair: Patty Jones, Calvert Cliffs*

- 8:00 a.m. **ALARA Achievements at Laguna Verde**  
Sergio Zorrilla, Laguna Verde  
Vera Cruz, Mexico
- 8:30 a.m. **Monticello's ALARA Successes**  
Kevin Jepson, Monticello
- 9:00 a.m. **St. Lucie's Equipment Replacement & ALARA Results**  
Scott Griffin  
St. Lucie
- 9:30 a.m. **'Overview of the BWR Shutdown Chemistry Guidelines'**  
EPRI (TBA)
- 10:00 a.m. **Topic TBA**  
Marc Maree  
Koeberg Power Station  
South Africa



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

*Session Chair: David Sluszka, Turkey Point, FPL*

- 10:30 a.m. **Industry Update on PWR Zinc Injection.**  
David Perkins  
Senior Project Manager  
EPRI
- 11:00 a.m. **AECL ALARA Program for CANDU Large Component Replacement**  
Linda Weekes, AECL, Ontario
- 11:30 a.m. **PWR/RP ALARA Association Program Results**  
John Hunsicker, President  
Summer
- 12:00 p.m. **Lunch**

**Session X: Global ALARA Resources and New Topics**

*Session Chair: Dwight Hostetter, Southern Company*

- 1:30 p.m. **ISOE Website and Dose Data Trends**  
David Miller  
NATC, Cook Nuclear Plant
- 2:00 p.m. **Global Issues on International Radiation Protection Standards: An Industry View**  
Sylvain Saint Pierre  
World Nuclear Agency  
London
- 2:30 p.m. **Exelon Fleet ALARA Initiatives**  
Willie Harris, Exelon
- 3:00 p.m. **Meeting Summary**  
Dennis Hussey (EPRI) and Richard Doty (PPL Susquehanna)
- 3:15 p.m. **Meeting Closing**  
Dennis Hussey (EPRI)