



**EPRI** | ELECTRIC POWER  
RESEARCH INSTITUTE



## **2009 ISOE North American ALARA Symposium/ EPRI Radiation Protection Conference**

January 12-14, 2009



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

# 2009 **ISOE** North American **ALARA** Symposium

**Background and Objectives** 2009 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. Personnel from other plant groups that work with the source term reduction and/or ALARA programs 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 4:00 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 30 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 the Main Calendar and scroll to the appropriate date.

Alternatively, the direct link is: <http://guest.cvent.com/EVENTS/Info/Summary.aspx?e=3aa92ab5-e5b6-451b-9ca4-bb349f844411>

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



	On or before December 30 Discounted Fees**	After December 30 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 30 AND attendees must be registered at the Fort Lauderdale Marriott North hotel.

# EPRI Radiation Protection Conference

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## Meeting and Logistical Information

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# 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/EPRIALARA Conference. Room rate: \$162+11% room tax for single or double. Room cut-off date: December 30, 2008. (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, 2008

## **Arrival Information**

Check-in: 3:00 PM  
Check-out: 12:00 PM

## **Ground Transportation**

From Fort Lauderdale Airport: Estimated taxi fare 50 USD (one way).  
From Miami Airport: Estimated taxi fare 85 USD (one way).

Tri-County 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 954-561-8888 24 hours in advance.

## **Dress Code**

Business casual 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.



Ballroom Foyer

## Sunday, January 11, 2009

5:30 pm – 7:30 pm Registration

## Monday, January 12, 2009

7:00 a.m. Registration

7:00 a.m. Continental Breakfast

7:00 a.m. Speakers' Breakfast (Monday speakers)

8:00 a.m. Welcome

Ballroom Foyer

Ballroom Foyer

Broward

David Miller, NATC

Wataru Mizumachi, ISOE

### Plenary Session I: The Global Nuclear Renaissance & ALARA

*Session Chairs: John Palms, Distinguished President Emeritus, University of South Carolina, Exelon Board Member;*

*Wataru Mizumachi, ISOE Bureau Chair, Japan Nuclear Energy Safety Organization*

8:10 a.m. US NRC Implementation of ICRP Recommendations

The Honorable Dale E. Klein  
Chairman, NRC Commission (invited)

8:40 p.m. ISOE New Expert Group Report on Work Management  
at Nuclear Plants

Wataru Mizumachi  
JNES, ISOE Bureau

9:10 a.m. 2008 ISOE World Class ALARA Performance Award

TBD

9:40 a.m. Coffee Break

Foyer

### Session II: RP 2020 Initiative

*Session Chairs: Cindy Connelly, INPO, Sean Bushart, EPRI*

10:00 a.m. Radiation Safety Developments Impacting RP  
Programs in 2009

Ellen Anderson, NEI

10:30 a.m. INPO RP 2020 Report: ALARA Observations

Cindy Connelly, INPO

11:00 a.m. EPRI Radiation Safety Research Highlights

Sean Bushart, EPRI

11:30 a.m. Low Level Radiation Cell Biology Research Update

Lawrence Dauer  
Memorial Sloan-Kettering,

12:00 p.m. Lunch, coffee and dessert in Exhibit Hall

Royal Palms

### Session III: Global ALARA Experiences

*Session Chairs: Richard Doty, Susquehanna; Rich McGrath, EPRI*

1:00 p.m. Inside and Outside - A Review of the RCA Boundary

Andreas Ritter, KKL,  
Leibstad, Switzerland

1:30 p.m. French Radiation Safety Program Highlights

Bernard Jeannin  
Electricite de France



**2009 ISOE North American ALARA Symposium/ EPRI Radiation Protection Conference, continued**

2:00 p.m.	Point Lepreau Refurbishment Project	Colin Pritchard, AECL, New Brunswick
2:30 a.m.	Latest BPP Radiation Protection Standards	Pascal Deboodt, ISOE Co-Secretariat
3:00 p.m.	Coffee Break	Foyer
3:30 p.m.	Laguna Verde Power Uprate ALARA Experience	Sergio Zorrilla, Laguna Verde
4:00 pm	An Unusual Way to Use a Phase-Out Nuclear Power Plant To Train The Next Generation Of Health Physicist	Carl Gorvan Barseback
4:30 p.m.	Substitution of CRDH Piping System at Confrontes NPP During the 16 Refuelling Outage. Dose Results	Eduardo Sollet Iberdrola Generacion, SA, Spain
5:00	Announcements	David Miller, ISOE
6:00 p.m. - 7:30 p.m.	Opening Vendor Reception	Cypress ABC

**Tuesday, January 13, 2009**

7:00 a.m.	Continental Breakfast	Cypress ABC
7:00 a.m.	Speakers' Breakfast (Tuesday speakers)	TBA

**Session IV: Source Term Reduction Methodologies**

*Session Chairs: Paul Mothena, V.C. Summer;*

8:00 a.m.	EPRI Source Term Reduction Update (PWR and BWR)	Dennis Hussey, EPRI
8:30 a.m.	Decontamination of Letdown Piping for Dose Reduction	TBD, Duke Energy
9:00 a.m.	Outage Activity Transport Monitoring Gamma Surveys at CANDU Stations	Yury Verzilov, Kinectrics, Canada
9:30 a.m.	Reduction methods of Cr and Co release from Stainless Steels in PWR and BWR plants	Hiroyuki Anada Sumitomo Metals Inc.
10:00 a.m.	Coffee Break	Cypress ABC

**Session V: ALARA & Fuel Reliability**

*Session Chairs: John Moser, Exelon; Linda Weekes, AECL, Canada*

10:30 a.m.	ALARA and Failed Fuel at Calvert Cliffs	Patty Jones Calvert Cliffs
11:00 p.m.	Palisades Containment Access Lessons Learned	(invited) Palisades
11:30 a.m.	Bruce A Equipment Refurbishment ALARA Challenges and Successes	Chris Trahan, Bruce Power
12:00 p.m.	Lunch, Coffee and dessert inside Exhibit Hall	Royal Palms



**2009 ISOE North American ALARA Symposium/ EPRI Radiation Protection Conference, continued**

**Session VI: ALARA Inspection/Mitigation Strategies**

*Session Chairs: Patty Jones, Calvert Cliffs; Dennis Hussey, EPRI*

<b>1:00 p.m.</b>	<b>Alloy 600 Inspection and Mitigation Dose Performance: 2007 Update</b>	<b>Rich McGrath, EPRI</b>
<b>1:30 p.m.</b>	<b>A Remote Radiation Monitoring Strategy for CANDU 6 Reactor Retube</b>	<b>R. Khaloo, Atomic Energy of Canada Ltd</b>
<b>2:00 p.m.</b>	<b>Vogtle Refueling Outage Dose Experience</b>	<b>Clark Bourne Southern Nuclear Operating Company</b>
<b>2:30 p.m.</b>	<b>Coffee Break</b>	<b>Cypress ABC</b>

**Session VII: Strategic Planning**

*Session Chairs: Jonathan Fox, Duke Energy, Karen Kim, EPRI*

<b>3:00 p.m.</b>	<b>OPG Radiation Safety Innovations to Control Tritium</b>	<b>Robin Manley, OPG</b>
<b>3:30 p.m.</b>	<b>Revisions to US NRC ALARA Regulatory Guides Including RG 8.8 and 8.10</b>	<b>Vincent Holahan US NRC</b>

**Session VIII: NRC Roundtable Discussion**

<b>4:00 p.m.</b>	<b>US NRCALARA Observations &amp; Discussion</b>	<b>TBA, US NRC</b>
<b>5:00 p.m.</b>	<b>Adjourn</b>	



**Wednesday, January 14, 2009**

<b>7:00 a.m.</b>	<b>Continental Breakfast</b>	<b>Cypress ABC</b>
<b>7:00 a.m.</b>	<b>Speakers' Breakfast (Wednesday speakers)</b>	<b>TBA</b>

**Session IX: Experience Reports**

*Session Chair: David Thompson, Byron*

<b>8:00 a.m.</b>	<b>Dose Reduction Efforts at Arkansas Nuclear One</b>	<b>Dan Stolz, Entergy</b>
<b>8:30 a.m.</b>	<b>Replacement Outage Dose Reduction Efforts at Fort Calhoun</b>	<b>Paul Kellogg OPPD</b>
<b>9:00 a.m.</b>	<b>Use of the Laser Scanning Technology to Support Existing Nuclear Facilities and New Plant Construction</b>	<b>Utility Author TBD&amp; A. Burger, CSA</b>
<b>9:30 a.m.</b>	<b>Scaffolding Initiatives – Building on Industry Success</b>	<b>Paul Saunders, Suncoast Solutions</b>
<b>10:00 a.m.</b>	<b>Break</b>	<b>Cypress ABC</b>

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

*Session Chair: Caroline Guincho, Turkey Point, FPL, Robin Manley, OPG*

<b>10: 30 a.m.</b>	<b>Applicability of ALARA Lessons Learned from Decommissioning Projects to Operating Plants</b>	<b>Richard McGrath, Conn. Yankee</b>
<b>11:00 a.m.</b>	<b>Movement of Dresden Steam Dryers to Mausoleum</b>	<b>Harry Bush, Exelon</b>
<b>11:30 a.m.</b>	<b>Fluor Hanford ALARA Center</b>	<b>Jeff Hunter, Fluor Hanford</b>
<b>12:00 p.m.</b>	<b>Lunch, coffee and dessert inside Exhibit Hall</b>	<b>Royal Palm</b>

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

*Session Chair: Vincent Holahan, USNRC- Research*

<b>1:00 p.m.</b>	<b>US and Canadian Dose Data Trends in 2007 &amp; 2008</b>	<b>David Miller, NATC, Cook Nuclear Plant</b>
<b>1:30 p.m.</b>	<b>Global Issues on International Radiation Protection Standards: An Industry View</b>	<b>Sylvain St. Pierre World Nuclear Association, London</b>
<b>2:00 p.m.</b>	<b>Hard to Detect Radionuclides</b>	<b>Joe Beer, DC Cook</b>
<b>2:30 p.m.</b>	<b>Meeting Summary</b>	<b>Dennis Hussey, EPRI Richard Doty, PPL Susquehanna</b>
<b>3:00 p.m.</b>	<b>Meeting Adjourn</b>	<b>David Miller, ISOE</b>

**Vendor Participants**

- |                                 |                                |
|---------------------------------|--------------------------------|
| Absorbtek, LLC                  | Landauer Inc.                  |
| Bartlett Holdings, Inc.         | Ludlum Measurements, Inc.      |
| Canberra Industries             | Master-Lee Industrial Services |
| DZ Atlantic                     | MGP Instruments                |
| Eastern Technologies, Inc.      | Nuclear Power Outfitters       |
| F&J Specialty Products, Inc.    | R. Brooks Associates, Inc.     |
| Frham Safety Products           | Sperian Protection Clothing    |
| G/O Corporation                 | Thermo Fisher Scientific       |
| Innovative Industrial Solutions | Unitech Services Group         |