



ISOE European Symposium

Uppsala, 26 – 28 June 2018



Programme



Supported by



The European Technical Centre of the Information System on Occupational Exposure (ISOE) is pleased to organize, in collaboration with and the support of Vattenfall and the Swedish Radiation Safety Authority (SSM), the 2018 ISOE European Symposium on Occupational Exposure Management at Nuclear Facilities.

The Symposium will be held in Uppsala, Sweden, from the 26th to the 28th of June 2018. It is co-sponsored by the OECD Nuclear Energy Agency (NEA) and the International Atomic Energy Agency (IAEA).

The Symposium is targeted at all those concerned with radiological protection at nuclear power plants: radiation protection managers and staff members, maintenance and operation planners, contractors, exposed workers, regulatory body representatives and international organisations. It is also opened to research reactors and professionals from other nuclear fuel cycle installations sharing common radiological protection issues.

Dealing with occupational radiation protection at the design, operation and decommissioning stages of installations, as well as accident situations, this new meeting point of radiation protection professionals under the heading of ISOE will be a great opportunity to share, at the international level, experiences and practices favouring a continuous improvement of radiation protection.

Furthermore, the accompanying Technical Exhibition will give participants the opportunity to see the latest developments from industrial and commercial companies active in fields of radiation protection.

Prior to the Symposium, on Monday 25th of June 2018, two meetings devoted to specific audiences have been organised:

- A Radiation Protection Managers meeting
- A Regulatory Body Representatives meeting

Finally, a technical visit has been organised to Forsmark NPP site on Friday 29th of June 2018 that will give you the opportunity to see the SKB depository for low and intermediate waste, the mobile logistic center intended for emergency situations as well as a to visit unit 3 controlled area.

We are looking forward to welcoming you in Uppsala,

Caroline SCHIEBER
Head of ISOE-ETC

On behalf of the Programme Committee



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PROGRAMME COMMITTEE MEMBERS

Lucie D'ASCENZO	ISOE ETC, CEPN – France
Laure-Anne BELTRAMI	ISOE ETC, CEPN – France
Borut BREZNIK	Krško NPP – Slovenia
Aude GENIAUX	ASN – France
Staffan HENNIGOR	Forsmark NPP – Sweden
František KLÍMEK	Temelin NPP – Czech Republic
Guy RENN	Sizewell B NPP – United Kingdom
Andreas RITTER	Leibstadt NPP – Switzerland
Caroline SCHIEBER	ISOE ETC, CEPN – France
Thorsten STAHL	GRS – Germany
Torgny SVEDBERG	Ringhals NPP – Sweden
Philippe WEICKERT	EDF UNIE-GPEX – France

CONFERENCE LANGUAGE

The conference language will be English.

SYMPOSIUM VENUE

The Symposium will take place at:

Uppsala Konsert & Kongress (UKK)
Vaksala Square 1
753 31 Uppsala

Entrance from Vaksala Square and Storgatan



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PROGRAMME

TUESDAY 26 JUNE 2018

08:30 - 09:00	Registration
09:00 - 09:30	Opening Ceremony C. Schieber (Head of ISOE ETC), L. Berglund (Deputy CEO for Forsmarks Kraftgrupp AB), F. Hassel (Deputy Director General of SSM)
Session 1.	RP Programs
Chairpersons	G. Ingham (ONR, UK), V. Simionov (Cernavoda NPP, Romania)
09:30 - 09:50	Radiation Protection and ALARA Program Highlights at Ontario Power Generation J. Zic (Pickering NPP, Canada) <i>Distinguished paper at 2017 Fort Lauderdale ISOE Symposium</i>
09:50 - 10:10	The Monetary Value of the man.Sievert (Alpha Value): Outcomes of an ISOE Survey S. Andresz, C. Schieber (CEPN, France), T. Jobert (EDF DIPNN Direction Technique, France)
10:10 - 10:30	Dose Reduction and Target Settings at Oskarshamn NPP C. Bauréus Koch, M. Pettersson (Oskarshamn NPP, Sweden)
10:30 - 11:20	Coffee-break, Visit of Exhibition, Posters
Session 2.	Source-Term Management (1/2)
Chairpersons	A. Ritter (Leibstadt NPP, Switzerland), M. Johansson (Ringhals NPP, Sweden)
11:20 - 11:40	Source Term Successes and Challenges at LaSalle County J. Moser (LaSalle NPP, USA) <i>Distinguished paper at 2018 Fort Lauderdale ISOE Symposium</i> Presented by M. Wakeley (LaSalle NPP, USA)
11:40 - 12:00	EDF's Radiation Protection Strategy for an Optimized RHRS and CVCS Circuit Decontamination Plan A. Rocher, J. Jaubert (EDF GPEX, France)
12:00 - 12:20	PWR and BWR Source Term Reduction: A Chemical Engineering Perspective P. Robinson ((n,p) Energy, Inc, USA)
12:30 - 14:00	Lunch Break



ISOE European Symposium

Uppsala, 26-28 June 2018

Session 3. Chairpersons	Source-Term Management (2/2) A. Ritter (Leibstadt NPP, Switzerland), M. Johansson (Ringhals NPP, Sweden)
14:00 - 14:20	Overview of International RCP Operation Practices during Shutdown - Use of ISOE Forum and Contacts LA. Beltrami (CEPN, France), T. Jobert (EDF DIPNN Direction Technique, France), L. Vaillant (CEPN, France)
14:20 - 14:40	BWR System Surface Contamination: Comparison of Three Similar Units with Different Development M. Olsson, L. Ekerljung (Forsmark NPP, Sweden)
14:40 - 15:00	Reactor Coolant System Monitoring using Portable Cadmium Zinc Telluride Detectors B. Boyer (Prairie Island, USA)

<i>15:00 - 15:50</i>	<i>Coffee-break, Visit of Exhibition, Posters</i>
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Session 4. Chairpersons	RP at Decommissioning Stage S.G. Jahn (ENSI, Switzerland), G. Ranchoux (EDF DP2D, France)
15:50 - 16:20	ISOE Working Group on Radiological Protection Aspects of Decommissioning Activities at Nuclear Power Plants (WGDECOM) I. Calavia (CSN, Spain)
16:20 - 16:40	Preliminary Design of the RPVs and Internals Dismantling of the Trino and Caorso NPPs. Effective Dose Optimization E. Amoroso, M. Caldarella, F. Mancini, R. Botti, D. Annunziata (SOGIN, Italy)
16:40 - 17:00	Simulation of the Occupational Radiation Dose caused by Contamination of Primary Circuit Media in Pressurized Water Reactors in overall Maintenance and Refuelling Inspections and Decommissioning Work S. Schneider, A. Artmann, G. Bruhn (GRS, Germany)



ISOE European Symposium

Uppsala, 26-28 June 2018

WEDNESDAY 27 JUNE 2018

Session 5. Chairpersons	RP Regulations: Guidelines and Implementation P. Weickert (EDF GPEX, France), P. Hansson (SSM, Sweden)
09:00 - 09:20	UK Regulatory Approach to ALARA in Light Water Reactors at the Design Stage V. Rees (ONR, UK)
09:20 - 09:40	Design, Modification and Maintenance of Contamination Barriers in RCA as a Challenging Part of Radiation Protection in Nuclear Facilities S.G. Jahn (ENSI, Switzerland)
09:40 - 10:00	Status of Readiness for Lens Dose Limit Change M. Johansson (Ringhals NPP, Sweden), V. Nilsson (Forsmark NPP, Sweden)
10:00 - 10:20	The Brief Introduction of Eye-lens Radiation Dose Survey in Chinese NPPs Q. Cao, L. Liu, X. Wei, R. Zhao, W. Xiong, Y. Xiao, S. Xia (China Institute for Radiation Protection, China)

10:20 - 11:10	<i>Coffee-break, Visit of Exhibition, Posters</i>
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Session 6. Chairpersons	Accident Management A. Geniaux (ASN, France), J. Ma (IAEA)
11:10 - 11:30	Operational Radiological Protection Regulatory Treatment applied to the Implementation of the Containment Filtered Venting System and the Alternative Emergency Management Center P. Diaz Arocas, M. L. Rosales, J. Peña, T. Labarta (CSN, Spain)
11:30 - 11:50	Ringhals Evacuation Centre (REC) - a Mobile Contamination Scanning Unit for Accident Situations A. Ljungberg (Ringhals NPP, Sweden)
11:50 - 12:10	Lessons Learned from the Analysis of the Return of Populations following the Lifting of Orders of Evacuation after the Fukushima Accident T. Schneider, P. Crouail (CEPN, France)

12:10 - 12:30	Conclusions from the Radiation Protection Managers and the Regulatory Body Meetings
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12:30 - 14:00	<i>Lunch Break</i>
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ISOE European Symposium

Uppsala, 26-28 June 2018

Session 7.	RP Indicators
Chairpersons	S. Hennigor (Forsmark NPP, Sweden), T. Stahl (GRS, Germany)
14:00 - 14:20	Performance Monitoring of Radiological Safety Policy at Cernavoda NPP V. Simionov, L.A. Samson, I. Popescu (Cernavoda NPP, Romania)
14:20 - 14:40	Analysis on Occupational Exposure of Radiation Workers in Korea based on KISOE Database (2007~2016) B. Kim (KINS, Republic of Korea)
14:40 - 15:00	How to Use the ISOE Database? L. D'Ascenzo (CEPN, France)

15:00 - 15:50	<i>Coffee-break, Visit of Exhibition, Posters</i>
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Session 8.	Contamination Management (1/2)
Chairpersons	G. Renn (Sizewell B NPP, UK), B. Breznik (Krško NPP, Slovenia)
15:50 - 16:10	Management of Alpha Emitters in the RCS at EDF and Comparison with International Utility Approaches - Presentation of the Data collected from an ISOE Questionnaire T. Jobert, G. Penessot (EDF DIPNN Direction Technique, France), C. Dinse (EDF CEIDRE, France), L. Vaillant, S. Andresz (CEPN, France)
16:10 - 16:30	Organization to Fight against Workers Internal Alpha Contamination in Decommissioning Works at Saint-Laurent A J. Laurent (EDF DP2D, France), B. Boussetta (EDF DIPDE, France), G. Ranchoux (EDF DP2D, France)
16:30 - 16:50	Internal Dose Assessments at Forsmark NPP L. Ekerljung (Forsmark NPP, Sweden)

19:00	Symposium Dinner at Norrlands Nation	
	Address: Västra Ågatan 14, 753 09 Uppsala	



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THURSDAY 28 JUNE 2018

09:00 - 09:15	Technical Visit Information – S. Hennigor (Forsmark NPP, Sweden)
Session 9. Chairpersons	Contamination Management (2/2) G. Renn (Sizewell B NPP, UK), B. Breznik (Krško NPP, Slovenia)
09:15 - 09:35	New Beta Probe for Contamination Monitor under a Gamma Background K. Bourdergui, V. Kondrasovs, M. Hamel (CEA List, France), B. Feret, D. Rothan (NUVIA, France), C. Dehe-Pittance, R. Woo (CEA List, France)
09:35 - 09:55	ALARA & Management of Internal Exposures at CNE Cernavoda C. Chitu, I. Popescu (Cernavoda NPP, Romania)
Session 10. Chairpersons	Job Experiences (1/2) F. Klímek (Temelin NPP, Czech Republic), I. Calavia (CSN, Spain)
09:55 - 10:15	A New Application for Industrial Radiography M. Petit (EDF Lab Paris-Saclay, France), P. Weickert (EDF UNIE-GPEX, France), N. Filliard, O. Petitprez (EDF Lab Paris-Saclay, France)
10:15 - 10:35	ALARA Experience with PWR Baffle Bolt Replacement at Cook D. Wood (Cook NPP, USA) <i>Distinguished paper at 2018 Fort Lauderdale ISOE Symposium</i>
10:35 - 11:25	<i>Coffee-break, Visit of Exhibition, Posters</i>
Session 11. Chairpersons	Job Experiences (2/2) F. Klímek (Temelin NPP, Czech Republic), I. Calavia (CSN, Spain)
11:25 - 11:45	Spent Fuel Storage Rack Replacement J. Bonnefon, P. Audry, F. Josse, G. Saulnier, E. Gas Nocera (EDF DIPDE, France), G. Sacre, B. Kopecky (REEL, France), C. Comas, D. Damelet (NUVIA, France)
11:45 - 12:05	Operational Experience of the first Dry Fuel Storage Campaign at Sizewell B NPP R. Parlone (Sizewell B NPP, UK)
12:05 - 12:25	US Dry Cask Dose Comparisons D. Miller (Cook NPP, USA)
12:25 - 12:45	Distinguished Papers and Closure of the Symposium



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FRIDAY 29 JUNE 2018

Technical Visit (optional)

A technical visit is organised (full day) to the **Forsmark NPP** with:

- SKB depository for low and intermediate level waste
- Mobile Logistic Center, intended for emergency situations
- Short tour to Forsmark unit 3 controlled area, where you can look the reactor hall, turbine hall and main control room through windows.

The bus departures and arrivals will be announced later on the ISOE Network website and to the registered participants.

The participation is subject to availability as the visit is restricted to a limited number of persons.