

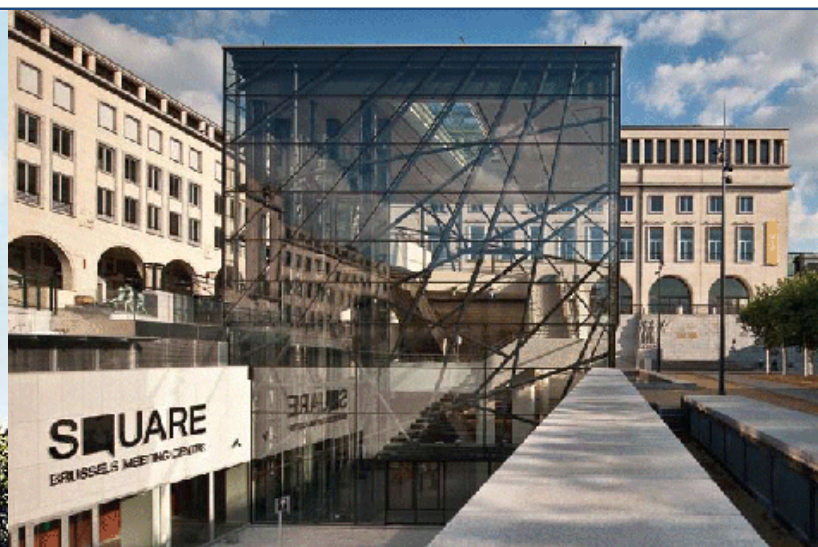


ISOE International Symposium

Brussels, 1 - 3 June 2016



Programme



Supported by





ISOE International Symposium

Brussels, 1-3 June 2016

The European Technical Centre of the Information System on Occupational Exposure (ISOE) is pleased to organize, in collaboration with and the support of ENGIE Electrabel and the Federal Agency for Nuclear Control (FANC), the 2016 ISOE International Symposium on Occupational Exposure Management at Nuclear Facilities.

The Symposium will be held in Brussels, Belgium, from the 1st to the 3rd of June 2016. 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.

Prior to the Symposium, on the 31th of May 2016, two meetings devoted to specific audiences have been organised:

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

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.

We are looking forward to welcoming you in Brussels.

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
Olivier COUASNON	ASN – France
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Miska HIRVELÄ	Loviisa NPP – Finland
Benoit LANCE	ENGIE Electrabel – Belgium
Jizeng MA	IAEA
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Guy RENN	Sizewell B Power Station – United Kingdom
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Vasile SIMIONOV	Cernavoda NPP – Romania
Torgny SVEDBERG	Ringhals NPP – Sweden
Thomas TAYLOR	Mühleberg NPP – Switzerland
Hiroko TEZUKA	ISOE ATC, NSRA – Japan

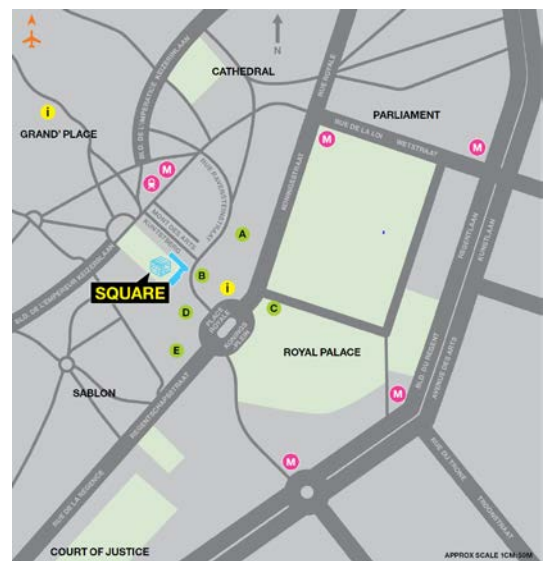
CONFERENCE LANGUAGE

The conference language will be English.

SYMPOSIUM VENUE

The Symposium will take place at:

SQUARE Brussels Meeting Centre
 Glass Entrance
 Parc du Mont des Arts
 1000 Brussels





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DEDICATED MEETINGS – TUESDAY 31 MAY 2016

The ISOE Symposium will be preceded by two dedicated meetings devoted to specific audience.

If you wish to participate to one of those meetings, please contact the relevant person as indicated below in order to register to one of these meetings.

The registration to these meetings is free of cost.

Radiation Protection Managers Meeting

09:00 - 17:00

Location: ENGIE Electrabel
Address: 34 boulevard Simon Bolivar - 1000 Brussels

Contact-person:

Benoit LANCE, ENGIE Electrabel Corporate,
Email: benoit.lance@engie.com

Regulatory Body Representatives Meeting

09:00 - 17:00

Location: FANC/AFCN
Address: Ravensteinstraat 36 - 1000 Brussels

Contact-person:

Swen-Gunnar JAHN, ENSI,
Email: Swen-Gunnar.Jahn@ensi.ch



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PROVISIONAL PROGRAMME

WEDNESDAY 1 JUNE 2016

08:00 - 08:30	Registration
08:30 - 09:00	Opening Ceremony
Session 1.	The ISOE System and Follow-up of Fukushima Accident
<i>Chairpersons</i>	<i>S.-G. Jahn (ENSI, Switzerland), V. Simionov (Cernavoda NPP, Romania)</i>
09:00 - 10:20	The ISOE Strategic Plan <i>T.-W. Hwang (ISOE Chair – KHNP, South Korea)</i>
	ISOE Contributions to the Work of the Committee for Radiation Protection and Public Health (CRPPH): Past and Future <i>A. Rakhuba (ISOE Secretariat – OECD NEA), E. Lazo (OECD NEA)</i>
	Use of ISOE for the Assessment of the RP Practices and Results at ENGIE Electrabel <i>B. Lance (ENGIE Electrabel, Belgium)</i>
	New Radiological Control of Areas in Fukushima Daiichi NPS <i>D. Ozaki (TEPCO, Japan)</i>
10:20 - 11:05	Coffee-break, Visit of Exhibition, Posters
Session 2.	Source-Term Management
<i>Chairpersons</i>	<i>B. Breznik (Krško NPP, Slovenia), Serge Blond (EDF EM RP, France)</i>
11:05 - 12h25	Primary Water Chemistry Optimization to Reduce Source Term in Belgian Units <i>K. Schildermans, P. Heine, R. Lecocq (ENGIE Laborelec, Belgium)</i>
	Elaboration of an Optimized Source Term Reduction Program for a 58 Reactors Fleet <i>A. Rocher, M.-C. Benoit-Alet (EDF UNIE-GPRE, France), C. Dabat-Blondeau, F. Renard, B. Voisin (EDF UTO, France)</i>
	Ringhals Experience in Antimony and Silver related to Doses <i>M. Johansson (Ringhals NPP, Sweden)</i>
	EDF Feedback on the Management of Ag-110m Contamination <i>M. Benfarah (EDF SEPTEN, France)</i>
12:30 - 14:00	Lunch Break



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Session 3. Measurements <i>Chairpersons</i> <i>M. Hirvelä (Loviisa NPP, Finland), D. Miller (ISOE NATC, USA)</i>	
14:00 - 15:40	Neutron Detection using a Gadolinium Covered CdZnTe Detector <i>R. Coulon, V. Kondrasovs, J. Dumazert (CEA LIST, France)</i>
	Make Visible the Invisible for a better Radiation Protection at EDF <i>P. Romane (Chinon B NPP, France), E. Canal (EDF UNIE-GPRE, France), S. Blond (EDF EM RP, France), D. Vrammout (Gravelines NPP, France), R. Malbert (EDF UNITEP, France)</i>
	Measurement Program for Occupational Exposure Source Terms with In-Situ Gamma Spectrometry Method in NPPs <i>Q. Cao, L. Liu, W. Xiong, Y. Xiao, X. Sanqiang, Y. Zhao, X. Wei, H. Pan (China Institute for Radiation Protection, China)</i>
	Air Sampling Programmes for Managing Internal Exposures: Review of Key Practical Issues <i>G. A. Roberts, R. K. Bull, D. Spencer (Nuvia Ltd., UK)</i>
	How to Correctly Choose the List of Relevant Isotopes to Assess Dose Uptake by Workers? <i>G. Genard, B. Gonze, D. Hulhoven, S. Vanderperre (ENGIE Tractebel Engineering, Belgium)</i>
15:40 - 16:25	<i>Coffee-break, Visit of Exhibition, Posters</i>
16:25 - 16:45	Conclusions from the Radiation Protection Managers and the Regulatory Body Meetings
Session 4. Decontamination <i>Chairpersons</i> <i>N. Guillen (Almaraz NPP, Spain), M. Michelet (EDF UNIE-GPRE, France)</i>	
16:45 - 17:45	Decontamination and Post-Decon Passivation Treatment of the RRS Loops and RWCU System as a Measure for Collective Dose Reduction and Recontamination Reduction at the Cofrentes NPP in Spain <i>J. de Dios Sanchez Zapata (Cofrentes NPP, Spain), A. Basu (AREVA GmbH, Germany), M. A. Garcia Martinez (Cofrentes NPP, Spain), S. Hoffmann-Wankerl (AREVA GmbH, Germany)</i>
	Analysis of Impact of the Primary Heat Transport Purification System on Outage Radiation Fields <i>Y. Verzilov, Y. Kravtsova (Kinectrics Inc., Canada), A. Nedelcu, I. Popescu, V. Simionov (Cernavoda NPP, Romania)</i>
	Alpha Activity and System Decontaminations <i>L. Ekerljung (Forsmark NPP, Sweden)</i>



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THURSDAY 2 JUNE 2016

Session 5. Large Job Experiences <i>Chairpersons</i> T. Svedberg (Ringhals NPP, Sweden), O. Kvasnicka (Temelin NPP, Czech Republic)	
08:30 - 10:10	Radiation Protection Success of Steam Generator Replacement in Blayais unit 3 (2014) <i>J. Bonnefon, G. Ranchoux, O. Backes (EDF DIPDE, France), B. Roustit, H. Caullier (Blayais NPP, France), J. Sergeat, K. Hamon, D. Marié (AREVA NP, France)</i>
	Reactor Pressure Vessel Closure Head Replacement of the Belgian Tihange 3 and Doel 4 units – Follow-up and On Site Dosimetry <i>B. Walschaerts, D. Hulhoven, V. Bouchat, S. Vanderperre (Tractebel ENGIE, Belgium)</i>
	Reactor Vessel Head Replacement at Tihange 3 – Transport Conditions and Storage of the Reactor Vessel Head <i>T. Ost (Tihange NPP, Belgium)</i>
	ALARA Program and RP Activities for the Reactor Vessel Head Replacement at CN Vandellòs II <i>A. Prim Pujals, J. L. Sarria Gálvez, I. Vildósola Hernandez, A. Ribas Goset (Vandellòs II NPP, Spain)</i>
	Development of IDIS (Integrated Drain Information System) for Reducing Radiation Exposure <i>D.-U. Kim (Shin-Kori NPP (unit 3&4), South Korea)</i>
10:10 - 10:55	<i>Coffee-break, Visit of Exhibition, Posters</i>
Session 6. Education and Training <i>Chairpersons</i> B. Lance (ENGIE Electrabel, Belgium), A. Geniaux (ASN, France)	
10:55 - 12:15	ENETRAP III European Guidance on the Implementation of the Requirements of the Euratom BSS with Respect to Education and Training for RPE and RPO <i>R. Paynter (EUTERP, The Netherlands), J. Stewart (HPA, UK), A. Schmitt-Hannig (BfS, Germany), M. Coeck (SCK•CEN, Belgium), A. Falcao (IST-ID, Portugal)</i>
	Challenges of the Aging of the Brazilian Regulatory Authority <i>G. Morais (CNEN, Brazil)</i>
	Integration of Human-Factors within the Design of a Training Tool within the Radiation Protection Field: an Opportunity to Foster the Tool's Appropriation and Develop the Trainer's Competences <i>L. Brunet (LIMSI-CNRS, France), I. Fucks, G. Le Meur, (EDF R&D, France), V. Boccara (LIMSI-CNRS, France)</i>
	Radiation Protection Planning as a Relevant Course Content for Training ALARA in NPP <i>S.-G. Jahn (ENSI, Switzerland)</i>



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12:30 - 14:00	Lunch Break
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Session 7.	RP Management
<i>Chairpersons</i>	<i>L. Dobiš (Bohunice NPP, Slovak Republic), F. Henry (FANC, Belgium)</i>
14:00 - 15:40	Radiation Protection: an Approach for Simplification <i>E. Canal, F. Saintamon (EDF UNIE-GPRE, France), S. Blond (EDF EM RP, France)</i>
	Demonstrating ALARA across the UK Nuclear Industry - Implementation of the Control of Occupational Radiation Exposure (CORE) Regulatory Inspection Project <i>G. A. Ingham (ONR, UK)</i>
	The Way to Optimize Radiation Exposure Index at the Russian Nuclear Power Plants <i>I. Doljenkov (Rosenergoatom, Russia), A. Kuchin (Kola NPP, Russian Federation)</i>
	Improving Occupational Radiation Exposure using ALARA Tools: Performance Indicators <i>V. Simionov, L. Samson (Cernavoda NPP, Romania)</i>
	The Management of Radiographic Controls on the Construction Site of the Flamanville 3 EPR Reactor <i>F. Veyssiere, S. Lelong (Flamanville 3 NPP, France), G. Abela (EDF DIPNN, France)</i>

15:40 - 16:25	Coffee-break, Visit of Exhibition, Posters
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Session 8.	Decommissioning
<i>Chairpersons</i>	<i>T. Taylor (Mühleberg NPP, Switzerland), T.-W. Hwang (KHNP, South Korea)</i>
16:25 - 17:45	ISOE Working Group on Decommissioning <i>I. Calavia (ISOE WGDECOM Vice-Chair – CSN, Spain)</i>
	Implementation of the Radiological Protection Principles in Decommissioning: Lessons Learnt from Three Projects <i>P. Deboodt (SCK•CEN, Belgium)</i>
	Optimisation of RP during the Course of the Decommissioning of Spent Fuel Channels <i>S. B. Navert (Mühleberg NPP, Switzerland)</i>
	José Cabrera NPP - Impact of the Chemical Decontamination on the Decommissioning Works. Current State of Decommissioning Works <i>J. Campos Mendia (ENRESA, Spain)</i>

17:45 - 18:00	Distinguished Papers and Closure of the Symposium
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19:00	Symposium Diner at Metropole Hotel 31, place de Brouckère - 1000 Brussels Metro: 'de Brouckère' Station (in front of the hotel) Train Station: 'Central station' (at +/- 500 metres)	
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FRIDAY 3 JUNE 2016

Technical visit (optional)

A technical visit is organised (full day) to the **SCK•CEN Mol**.

The bus departures and arrivals for each visit 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 (see registration form).

HOW TO GET TO BRUSSELS?

By air: Brussels International Airport (BRU) is only 17 minutes away from the city centre and SQUARE. A direct train shuttle from the airport stops at Brussels Central, the railway station in front of the SQUARE building.

By rail: High-speed trains stop only at Midi/Zuid train station, except the ICE which stops also at Nord/Noord train stations. SQUARE is just across the way from Brussels Central railway station.



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ACCOMMODATION

Participants are responsible for making their own reservations.

ISOE has taken options in different hotels at special congress rates. These hotels are:

Hotel <i>Minimum price per night</i>	Option Expiration Date	Reservation type
Hotel La Madeleine <i>82 € per night</i>	18 April 2016	Online reservation <i>Dedicated website from Brussels Booking Desk</i>
Motel One Hotel <i>103 € per night</i>	18 April 2016	
ARIS Grand Place Hotel <i>105 € per night</i>	18 April 2016	
NH Grand Place Arenberg <i>173 € per night</i>	18 April 2016	
IBIS Brussels Off Grand Place <i>180 € per night</i>	18 April 2016	
Royal Windsor Hotel Grand Place <i>208 € per night</i>	18 April 2016	
Sandton Brussels Centre <i>179 € per night</i>	18 April 2016	
Four Points Brussels Hotel <i>149 € per night</i>	30 April 2016	Online reservation <i>Specific page of the Hotel website</i>
Metropole Hotel <i>159 € per night</i>	24 April 2016	Booking form (pdf) <i>To be returned by fax or Email</i>

In order to benefit of the reduced price, please return the form or use the specific website link before the above expiration deadline.

More information can be found on the [ISOE Network website](#).