

2006 ISOE INTERNATIONAL SYMPOSIUM

Essen, Germany
15-17 March 2006

Zollverein

Foto: Matthias Duschner/Stiftung Zollverein

Organised by

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POWERTECH

CEPN

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The International Atomic Energy Agency (IAEA), the OECD Nuclear Energy Agency (NEA), the CEPN (the ISOE European Technical Centre) and the VGB PowerTech (Association of Large Power Plant Operators) are jointly organising and sponsoring the 2006 ISOE International Symposium. This Symposium is targeted at radiation protection professionals (radiological protection and maintenance managers and senior staff members in health physics, chemistry...) from all types of Nuclear Power Plants (NPPs), Research Reactors, contractors and Radiological Protection Authorities. The Symposium will:

- provide a large forum for operators to exchange practical information and experience on occupational exposure issues,
- allow vendors to present their recent products,
- give an opportunity to participate in plenary sessions, poster presentations, small group discussions and vendors exhibition.

An important innovation is the organisation just before the Symposium, on the 14th of March, of three meetings devoted to specific audiences:

- a meeting for the NPP radiation protection managers (RPM)
- a meeting for the senior staff of regulatory bodies
- a meeting for research reactors representatives

Participation to the Symposium will allow to benefiting from a presentation by L.E Holm, chairman of ICRP on the new Recommendations of the Commission and from a discussion of the IARC epidemiological study results on nuclear cohorts. International Organisations (EC, IAEA) and trade union will present some of their topics of concern in occupational radiological protection. Source term reduction, job specific radiological protection experiences, ALARA strategies and management, dosimetry and measurements will be addressed during plenary sessions. Special attention will be given to the work in small groups, which gave during the previous ISOE international symposia in Europe, an opportunity for very fruitful international exchanges. We will be glad to welcome the distinguished presentations from the 2005 North American International Symposium and from 2005 first Japanese ALARA Workshop and to select the best European presentations to be presented in the 2007 ALARA Symposium in USA.

C. Lefauve
Deputy Director CEPN
Head of ISOE ETC

P. Kapteinat
VGB PowerTech

PROGRAMME COMMITTEE

D'ASCENZO Lucie
ISOE European Technical Centre, CEPN, France

BRAUNS Jörg
FRAMATOME ANP, Germany

COLSON Philippe
EDF DPN, France

DEBOODT Pascal
IAEA

FRAGIO Ramiro
Cofrentes NPP, Spain

GUZMAN Olvido
CSN, Spain

JOLY Charles
CEA Saclay, France

KAPTEINAT Heinz-Peter
VGB, Germany

LEFAURE Christian
ISOE European Technical Centre, CEPN, France

LINDVALL Carl-Goran
Barsebäck NPP, Sweden

RENN Guy
Sizewell B NPP, United Kingdom

RITTER Andreas
Leibstadt NPP, Switzerland

CONFERENCE LANGUAGE

The official languages of the Symposium are English and German.
Simultaneous translation (German-English and English-German)
will be provided.

Tuesday 14th March 2006

Three meetings devoted to specific audience (Attendance restricted)

- 09:00 Radiation Protection Managers meeting
VGB office, Room 220 **contact:** heinzpeter.kapteinat@vgb.org
- 09:00 Senior Regulatory Body representatives meeting
VGB office, Room 415 **contact:** ogl@csn.es
- 09:00 Research reactor European ALARA sub-network
participants meeting
VGB office, Room 219 **contact:** charles.joly@cea.fr

Address: VGB PowerTech e.V. Klinkestr. 27-31, 45136 Essen, Germany

See access map on VGB website: <http://www.vgb.org/travelinformation.html>

At the Messe Essen, Congress Center Süd:

- 14:00 Installation of posters and commercial exhibition booth
- 15:00 Registration of participants to the Symposium
- 18:00 End

2006 ISOE INTERNATIONAL SYMPOSIUM PROGRAMME

Wednesday 15th March 2006

- 08:00 Registration of participants & exhibition opening
- 08:30 Conference opening
(BfS, NEA, IAEA, EC, CEPN, VGB)

08:50-10:30 **Introductory Session**

Chairman: **Gerhard Frasch, BfS**

- Presentation of the new ICRP recommendations
L.E. Holm, Chairman of International Commission on
Radiological Protection
- Design, Results and Comments on a Retrospective Cohort
Study in the Nuclear Industry
M. Blettner, University of Mainz, Germany
- The occupational radiation programme of the IAEA
P. Deboodt & K. Mrabit, IAEA
- Implementation of EC Council Directive 90/641 EURATOM on
"External Workers": current situation and recommendations
from a European Workshop
K. Schnuer, European Commission

10:30-11:00 *coffee-break*

11:00-12:30 **Introductory Session**

Chairman: **Gerhard Frasch, BfS**

- Radiation Protection - Requirements at Workers in the framework of a security-culture
W. Sander, ver.di Bundesverwaltung, Germany
- ALARA and/or BAT?
S. Hennigor & M. Eklöf, Forsmark NPP, Sweden
- SISC - Integrated System for NPP's Supervision - Spanish Reactor Oversight Process
B. Gomez-Argüello, Tecnatom, Spain / T. Labarta, CSN, Spain
- Significant Reduction in US PWR & BWR Outage Duration and Occupational Dose from 2000-2005: A Complementary Achievement
D. Miller, ISE North American Technical Centre, USA

12:30-14:00 Lunch

14:00-15:30 **Work in groups**

15:30-16:00 *coffee-break*

16:00-18:00 **Session 1: Source-Term Reduction**

Chairman: **Wataru Mizumachi, JNES**

- Operational Experience with Zinc Injection at Angra
B. Stellwag, Framatome ANP, Germany / M. Rübenich (Electronuclear, Brazil), M. de Oliveira & M. Menezes (Angra NPP, Brazil), V. Schneider (Framatome ANP, Germany), U. Staudt (VGB PowerTech, Germany)
- Full System Decontamination of the PWR Stade Prior to Decommissioning
C. Stiepani, Framatome ANP, Germany / W. Schappert, Stade NPP, Germany
- Ultrasonic Fuel Cleaning Pilot at Quad Cities
K. Ohr, Quad Cities NPP, USA *US distinguished paper*
- Browns Ferry Unit 1 Restart Source Term Reduction Initiatives
J. Underwood, Browns Ferry NPP, USA *US distinguished paper*
- Developments in the EPRI Source Term Reduction Program
D. Hussey, EPRI, USA
- Evaluation of gamma radiation fields at KANUPP and efforts to reduce them
T.B. Tahir, Karachi NPP, Pakistan

18:00 Welcome reception buffet in the exhibition area

Thursday 16th March 2006

08:30 Registration of participants & exhibition opening

09:00-12:30 **Session 2:**
Job specific radiation protection experiences

Chairman: **Brian Ahier, NEA**

- Study on Insulation
G. Abela, EDF-CAPE-GPR, France / P. Hollin, Cruas NPP, France
- Pressurizer Heater Nozzle Replacement at San Onofre
K. Gallion, San Onofre NPP, USA *US distinguished paper*
- Discussion of the planning process and practical results from an ALARA point of view for modifications of the pressurizer system
B. Bitterli, Gösgen NPP, Switzerland
- Dose Reduction by new Sipping Process in German BWRs
D. Derdau, Krümmel NPP, Germany / H. Höfer, Höfer & Bechtel GmbH, Germany

10:30-11:00 *coffee-break*

- Measure to reduce radiation exposure during the RV Core Internals Replacement at Ikata Nuclear Power Station
Y. Kashimoto, Shikoku Electric Power Co, Japan
Asian distinguished paper
- Bruce Power ALARA Aspects of Bruce A refurbishment
C. Trahan, Bruce NPP, Canada
- The industrial gamma ray inspection: a global approach for a radiation protection issue
G. Abela, EDF CAPE GPR, France / C. Chiappa, EDF-CEIDRE-Fessenheim NPP, France
- Radiation protection in moisture separator reheaters and high pressure turbine replacement
K. Kukkonen, TVO NPP, Finland

12:30-14:00 Lunch

14:00-15:00 **Work in groups**

15:00-15:30 *coffee-break*

15:30-17:30 **Session 3: ALARA Strategies and Management**
Chairman: **J.-Y. Gagnon, Gentilly 2 NPP**

- ALARA Practices in Nuclear Power Plant Units in the Czech Republic: Experience and Challenges
J. Koc, Temelin NPP, Czech Republic / V. Kulich, Dukovany NPP, Czech Republic, J. Matzner & L. Urbancik (State Office for Nuclear Safety, Czech Republic)
- ALARA program in TEPCO
S. Takahira, K. Haraguchi, TEPCO, Japan
- Improving of the working conditions and cleaning of gas discharges during the outage at Bohunice V1 NPP
L. Dobis, Bohunice NPP, Slovakia / J. Kaizer & J. Svitek, Bohunice NPP, Slovakia
- ALARA programme and experiences during RFO 15
R. Fragio, Cofrentes NPP, Spain
- US Procedure Standardization Initiative for Locked High Radiation Areas
S. Schofield, San Onofre NPP, USA
- ALARA at the Nuclear Power Plant Borssele
F. Kamping, Borssele NPP, The Netherlands

18:00 Visit of Zeche Zollverein
 with guides speaking English and German
 Bus shuttle, Departure: Messe Essen

19:30 Congress dinner
 „Kokerei“ of Zeche Zollverein

Friday 17th March 2006

08:30 Registration of participants & exhibition opening

09:00-10:40 **Session 4: Dosimetry and Measurements**

Chairman: **Y. Garcier, EDF**

- Radiation protection data teletransmission: EDF studies and thoughts
V. Crepieux, EDF-CAPE-GPR, France
- Use of Remote Monitoring Technology in the U.S. to Support Radiation Protection Functions
P. Tran, EPRI, USA
- Official Dosimetry with Personal Electronic Dosimeters – requirements in Germany
R. Czarwinski, BfS, Germany / J. Kaulard & W. Pfeffer, GRS, Germany
- Official Dosimetry with Personal Electronic Dosimeters in Germany - design and field-trial validation of a prototype meeting the requirements given
E. Martini, LPS, Germany / S. Hübner, GSF, Germany, M. Staemmler, FHS, Germany
- About the interest of an accreditation approach for internal body contamination equipment at EDF NPP
M. Gonin, EDF GDF, France / B. Jeannin & Y. Garcier, EDF-DPN, France
- Westinghouse Electric Germany's Implementation of On-Site Gamma Spectroscopy
M. Brenneisen, Westinghouse Electric, Germany / T. Hermes, Westinghouse Electric, Germany

10:45-11:00 *Coffee-break*

11:00-12:00 **Report from the discussion groups in plenary session**

Chairman: **C. Lefauve , ISOE European Technical Centre**

12:00-12:15 **Distinguished paper awards** and conference closing

Technical Visits

Departure of the buses from the Messe Essen

The number of participants is limited.

NPP Emsland

Departure 11.00 h (lunch at the arrival on site)

Maximum 12 Persons

**Participants have to register before 10th February 2006
with the following personal data at VGB office
(jutta.hansen@vgb.org):**

Family name, first name, complete private address, date of birth, place of birth, ID-number of the identity card or passport number.

Castor fabrication in Mülheim

Departure 13.00 h, Maximum 30 Persons.

Simulator Centre in Essen

Departure 13.00 h, Maximum 60 Persons in 3 groups.

ISOE SYMPOSIUM VENUE

Messe Essen, Congress Center Süd

Lührmannstrasse

45131 Essen (Germany)

Phone: +49 (0)201-7244 894

Fax: +49 (0)201-7244 877

Web: <http://www.cc-essen.de>

Information about the city of Essen: <http://www.essen.de>

POSTERS (Last Call)

A Poster Exhibition will take place simultaneously with the Symposium conference. It remains possible to propose your contributions until the end of February 2006.

A short paper should illustrate the poster. It will be published in the Proceedings.

AUTHORS

Authors will be individually informed by the Programme Committee on the details concerning their papers. The papers must be received by the 24th of February 2006.

COMMERCIAL BOOTHS

A technical exhibition will take place simultaneously with the Symposium conference. Coffee-breaks will be held in the exhibition area. Some exhibition spaces are still available and registrations are accepted until the end of February 2006.

INFORMATION

Please, contact the Organisation Committee:

Participation in the Symposium:

Jutta Hansen, VGB, Phone: +49 201 8128 334,

Fax: +49 201 8128 345, Email: jutta.hansen@vgb.org

Lucie D'Ascenzo, CEPN, Phone: +33 1 55 52 19 28,

Fax: +33 1 55 52 19 21, Email: dascenzo@cepn.asso.fr

Participation in the Exhibition:

Angela Langen, VGB, Phone: +49 201 8128 310,

Fax: +49 201 8128 329, Email: angela.langen@vgb.org

JOURNEY

By Air:

Your destination is the Rhine-Ruhr airport "Düsseldorf International", where you have flight connections to over 100 cities both in Germany and abroad.

Airport Express bus and Taxis stop directly outside Terminal B - Bus-Stop 072 and take you to Essen in approx. 20 minutes.

With the ICE express train from Düsseldorf airport station, you can get to Essen Main-Station in just 22 minutes.

By train:

Essen Main Station (EssenHBF) is the intersection and starting point for more than 120 ICE, InterCity, EuroCity and InterRegio connections in all directions every day.

From Essen Main Station (Essen HBF) to Congress Center:

Direct underground train connection:

Line U 11 until stop "Messe West/Gruga" (terminal stop), length of journey 5 minutes.

From Essen Main Station (Essen HBF) to Hotel an der Gruga:

Direct underground train connection:

Line U 11 until Stop "Messe Ost/Gruga", appr. 4 minutes

After ascending the underground you may see a small parking block and a police station

Cross the road "Norberstrasse" and take the road between the police station and the parking block. On the left hand you will find the Hotel an der Gruga

From Essen Main Station (Essen HBF) to Ypsilon Hotel:

Bus Stop No 11, Bus Line 145 or 146 Direction "Heisingen/Baldeneysee" until stop

"Paulinenstrasse", cross the road "Wittenbergstrasse" ~ 150 m right hand

you will see the Ypsilon Hotel

From Hotel an der Gruga to Congress Center Essen:

Walking distance ~ 500 m or

Line U11 from stop "Messe Ost/Gruga" to stop "Messe West/Gruga" (terminal stop)

From Ypsilon Hotel to Congress Center Essen:

Bus Stop "Paulinenstrasse" Bus Line 160 direction "Borbeck Bf" until stop "Martinstrasse"

Underground Line U 11 "Messe West/Gruga" (terminal stop), length of journey ~10 minutes

Tickets

One-way tickets or a four-way tickets can be bought at ticket vending machines.

Please choose rate A (PREISSTUFE A)

One-way EUR 2,00

Four-way EUR 6,70

You have to cancel your ticket in a ticket validator in the train or bus, or in the underground station before getting on the train

See enclosed plan

More detailed plans could also be found on VGB website: http://www.vgb.org/isoe_2006.html

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