



# TOPSEAL 2006

## Programme

### International Topical Meeting

Olkiluoto Information Centre, Finland  
17 – 20 September 2006

Organised by  
**European Nuclear Society (ENS)**

In cooperation with  
**Finnish Nuclear Society (ATS)**  
**Nuclear Energy Agency (NEA)**



## PRELIMINARY PROGRAMME

### Sunday 17 September

15:00 – 17:00 Guided walking tour in Old Rauma  
 19:00 – 20:30 Opening Reception and Pre-Registration, Maritime Museum, Rauma

### Monday 18 September

09:00 – 9:15 **Welcome Address**  
**Eero Patrakka** – President, Posiva Oy  
 Chairman TopSeal 2006 Conference

### SESSION I : *International Perspectives on Radioactive Waste Management*

- 09:15 – 10:45  
 1<sup>st</sup> part
- Chairman:** Eero Patrakka – Posiva Oy – Finland
- **Keynote Speech**  
 Ute Blohm-Hieber - Head of Unit Nuclear Energy, Waste Management & Transport – European Commission
  - **Nuclear Waste Management in Finland**  
 Jaana Avolahti – Counsellor, Ministry of Trade and Industry of Finland
  - **The 'Joint Convention' 2006 Review Meeting: Results and Future Perspectives**  
 Cyril Pinel - Head of International Affairs - French Nuclear Safety Authority
- 10:45 – 11:00  
 2<sup>nd</sup> part
- Coffee Break**
- **Waste Disposal – Moving from Strategy to Reality**  
 Claes Thegerström – President, Swedish Nuclear Fuel and Waste Management (SKB)
  - **Current Status of the French Programme for Radioactive Waste Disposal**  
 Marie-Claude Dupuis - Director General - French National Agency for Radioactive Waste Management (Andra)
  - **HLW-Disposal in Germany – R&D Achievements and Outlook**  
 Walter Steininger - Forschungszentrum Karlsruhe GmbH - Water Technology and Waste Management
- 12:30 – 14: 00
- Lunch**  
**Possibility to visit Poster Session** – Posters are listed on page 4 of this programme and will be on display throughout the conference  
**Possibility to visit 'Electricity from Uranium' - Scientific Exhibition**



## **SESSION II : Research, Development and Demonstration for Radwaste storage and disposal**

**14:00 – 15:50**  
1<sup>st</sup> part

**Chairman:** Enrique Biurrun - DBE Technology - Germany.

- **Perspectives for Deep Geological Formation Disposal Research in France beyond 2006**  
P. Landais - Agence Nationale pour la gestion des déchets radioactifs (Andra), France
- **Disposal of Spent Fuel from German Nuclear Power Plants – Paperwork or Technology?**  
Reinhold Graf - GNS, Wolfgang Filbert - DBE TECHNOLOGY GmbH, Germany
- **Disposal of Spent Fuel in Vertical Boreholes in Salt – An Industrial Demonstration Program-**  
W. Bollingerfehr, W. Filbert - DBE TECHNOLOGY GmbH, Germany
- **KBS-3H – Development of the Horizontal Disposal Concept**  
Erik Thurner, Stig Pettersson - Swedish Nuclear Fuel and Waste Management Co, Sweden  
Margit Snellman, Jorma Autio - Saanio & Riekkola Oy, Finland
- **The Belgian Demonstration Programme for the Disposal of High Level and Long Lived Radioactive Waste**  
F. Bernier, M. Demarche – ESV EURIDICE GIE, European Underground Research Infrastructure for Disposal of Nuclear Waste in Clay Environment, Belgium

**15:50 – 16:10**

**Coffee Break**

**16:10 – 17:30**  
2<sup>nd</sup> part

**Chairman:** Ben Volmert - Nagra - Switzerland.

- **Generic Repository Concept for RBMK-1500 Spent Nuclear Fuel Disposal in Crystalline Rocks in Lithuania**  
P. Poskas, A. Brazauskaite, E. Narkunas, A. Smaizys, A. Sirvydas - Lithuanian Energy Institute, Lithuania
- **Experimental and Modelling Study on the Long-term Performance of the Engineering Barrier (System)**  
Norikazu Yamada, Satoko Shimoda – Mitsubishi Materials Corporation, Japan  
Hitoshi Owada, Yoshio Kuno, Hidekazu Asano – Radioactive Waste Management Funding and Research Center, Japan
- **Modelling of Nuclide Migration for Support of the Site Selection for Near Surface Repository in Lithuania**  
R. Kilda, P. Poskas, V. Ragaisis - Lithuanian Energy Institute, Lithuania
- **Pre-conceptual Study on the Review Framework for the Radiation Shielding Safety of the PWR Spent Fuel CASK Interim Storage in Korea**  
Byeong-Soo Kim, Jae-Hak Jeong, Chan-Woo Jeong – Korean Institute of Nuclear Safety, Korea

**20:00**

**Dinner, Vujoki Manison, Eurajoki – offered by TVO and POSIVA**



## Tuesday 19 September

### SESSION III : Experiences with Existing LLW/ILW Storage and Disposal Facilities

09:00 – 11:10

**Chairman:** Jan Carlsson - SKB

- **Present Issues for Surface Disposal Facilities in France**  
Michel Dutzer, Jean Pierre Vervialle, Patrick Charton – Andra, Industrial Branch, France
- **Operational Experience from SFR – Final Repository for Low- and Intermediate Level Waste in Sweden**  
Marie Skogsberg – Swedish Nuclear Fuel and Waste Management Co., Sweden  
Roger Ingvarsson – Forsmark Power Group Co., Sweden
- **Aspects on the Acceptance of Waste for Disposal in SFR**  
Börje Torstenfelt, Swedish Nuclear Fuel and Waste Management Co., Sweden
- **Hydraulic Cage Concept for Waste Chambers and its Technical Implementation for the Underground Richard Repository, Litoměřice, Czech Republic**  
Bernt Haverkamp, Enrique Biurrun, Nina Müller-Hoeppe – DBE TECHNOLOGY GmbH.
- **Technical Realization of a Closure Concept for a Chamber-system in the Underground Richard Repository in the Czech Republic**  
Miroslav Kucerca – Radioactive Waste Repository Authority (RAWRA), Czech Republic
- **New Developments in Low Level Waste Management in Spain**  
Pablo Zuloaga – ENRESA, Spain

11:10 – 11:30

**Coffee Break**

### SESSION IV : Planned Activities for Geological and Near-Surface Repositories for all Waste Types

11:30 – 12:30  
1<sup>st</sup> part

**Chairman:** P. Landais - Andra - France

- **Latest Developments of the Belgian Disposal Programme for Low and Intermediate Short-Lived Waste**  
Jean-Paul Boyazis, Director Department Studies and Final Disposal Programmes – Belgian Waste Management Agency (ONDRAF-NIRAS), Belgium
- **The Swiss High-level Waste Programme: Status and Future Challenges**  
Jürg Schneider, Piet Zuidema – Nagra, Switzerland
- **Latest Developments in the UK**  
John Dalton – Radioactive Waste Management (Nirex), UK

12:30 – 13:45

**Lunch**  
**Possibility to visit Poster Session and Exhibition**



**SESSION IV : *Planned Activities for Geological and Near-Surface Repositories for all Waste Types***

**13:45 – 15:45**  
2<sup>nd</sup> part

**Chairman:** T. Äikäs - Posiva - Finland

- **Future Extension of the Swedish Repository for LILW (SFR)**  
Jan Carlsson – Swedish Nuclear Fuel and Waste Management Co, Sweden
- **OPG’s Deep Geologic Repository for Low and Intermediate Level Waste – Recent Progress**  
Frank King – Ontario Power Generation, Canada
- **Overview of the current and planned activities in the Bure underground laboratory**  
Jacques Delay - Andra, France
- **Underground Characterisation and Research Facility ONKALO.**  
Antti Ikonen, Mia Ylä-Mella, Timo Äikäs – Posiva, Finland

**15:45 – 16:15**

**Coffee Break**

***Panel Discussion: Future Challenges in Radioactive Waste Management***

**16:15 – 17:15**

**Moderator:** Mr. Hans Riotte – OECD/NEA

**Panelists:**

- **Mrs. Ute Blohm-Hieber** - Head of Unit, Directorate General for Energy and Transport - European Commission
- **Mr. Varjoranta** – Director, Nuclear Waste and Material Regulation – Finish Radiation and Nuclear Safety Authority (STUK)
- **Dr. Seppo Vuori**, Technical Research Centre of Finland (VTT)
- **Mr. Meyer**, DBE TEC

**17:15 – 17:30**

**Closing Remarks**

**Ms. Anneli Nikula** – Senior Vice President – Teollisuuden Voima Oy

**18:15 – 19:15**

**Guided Walking Tour in Old Rauma**

**20:00**

**Conference Dinner, Poselli Cultural Centre, Rauma**

***Poster Session – Posters will be on display throughout the conference***

- **Modelling of Radionuclide Releases from the Near Field of the Geological Repository in Crystalline Rocks for RBMK-1500 Spent Nuclear Fuel**  
A. Brazauskaitė, P. Poskas – Lithuanian energy institute
- **Alteration of the Cementitious Material under Saline Environment**  
Hitoshi Owada, Hidekazu Asano, Yoshio Kuno – Radioactive Waste Management Funding and Research Center, Japan  
Hiroyuki Sakamoto – Taiheiyo Consultant Co., LTD, Japan  
Satoko Shimoda – Mitsubishi Materials Corporation, Japan
- **Upgrading of Radon’s Type Near Surface Repository in Latvia**  
A. Abramenkovs – State Hazardous Wastes Management Agency, Latvia





- **Triumph – The Swedish Data Base System for Radioactive Waste in SFR**  
Marie Skogsberg – Swedish Nuclear Fuel and Waste Management Co. – Sweden
- **The Tunnel Sealing Experiment: The Construction and Performance Full Scale Clay and Concrete Bulkheads at Elevated Pressure and Temperature**  
J.B. Martino, D.A. Dixon – Atomic Energy of Canada Limited, AECL, Canada  
B. Vignal – Agence Nationale pour la Gestion des Déchets Radioactifs, ANDRA, France  
T. Fujita – Japan Atomic Energy Agency, NAKA, Japan
- **Ct Testing and Damage Constitutive Model of Unsaturated Slates**  
Chen Weizhong, Dai Yonghao, Yang Chunhe – Institute of Rock and Soil Mechanics, Chinese Academy of Sciences, China
- **Hydrogeochemical Investigations and Perspectives at the ANDRA’s Meuse/Haute-Marne Underground Research Laboratory**  
Agnès Vinsot, Jacques Delay, Hervé Rebours – ANDRA, France
- **Scientific Investigation in Deep Boreholes at the ANDRA’s Meuse/Haute-Marne Underground Research Laboratory**  
Hervé Rebours, Agnès Vinsot, Jacques Delay – ANDRA, France

**Wednesday 20 September**

**9:00 – 11:00 Olkiluoto Technical Visit**



1. Hotel Best Western Kalliohoivi
2. Hotel Best Western Raumalinna
3. Hotel Cumulus
4. Poselli Cultural Centre
5. Maritime Museum

**Organisational Information**



**Arrival and Departure:** Transportation from Turku and Pori airports are arranged by Raumair, e-mail: [raumair@raumair.fi](mailto:raumair@raumair.fi) [www.raumanair.fi](http://www.raumanair.fi) Booking in advance is necessary. Alternatively, there are good intercity bus connections ([www.expressbus.com](http://www.expressbus.com)) with buses going every 1-3 hours except during the night or train connections ([www.vr.fi](http://www.vr.fi)).

### *Sunday 17 September*

- 15:00 – 17:00**      **Guided walking tour in Old Rauma**  
Meeting point: Lobby of all three conference hotels
- 19:00 – 20:30**      **Opening Reception and Pre-Registration, Maritime Museum, Rauma**  
The Maritime Museum is at walking distance from the hotels.  
A pre-registration desk will be opened from 18:00 on.

### *Monday 18 September*

- 8:30**                **Bus Transfer to the Information Center in Olkiluoto**  
Buses will leave in front of the hotels at 8:30.
- 17:45**                **Bus Transfer from the Information Center to Rauma**
- 19: 15**                **Bus Transfer to Vuojoki Manison, Eurajoki**
- 20:00**                **Dinner offered by TVO and POSIVA at Vuojoki Manison, Eurajoki**

### *Tuesday 19 September*

- 8:30**                **Bus Transfer to the Information Center in Olkiluoto**  
Buses will leave in front of the hotels at 8:30.
- 17:45**                **Bus Transfer from the Information Center to Rauma**
- 18: 15**                **Guided walking tour in Old Rauma**  
Meeting point: Lobby of all three conference hotels
- 20:00**                **ENS Conference Dinner at Poselli Cultural Centre, Rauma**  
The Poselli Cultural Centre is at walking distance from the hotels

### *Wednesday 20 September*

- 8:30**                **Bus Transfer to Olkiluoto**  
Buses will leave in front of the hotels at 8:30.
- 9:00**                **Technical Visit**  
The Technical Visit of the Olkiluoto repository for low and intermediate level waste and Olkiluoto 3 construction site will take place by bus.
- 11:00**                **Return of buses to Rauma – arrival around 11.30**  
Participants who need to travel to Pori please contact the Conference Secretariat



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