









TOPSEAL2003

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

Welcome Address

O9:00 – 9:15 Eero Patrakka – President, Posiva Oy Chairman TopSeal 2006 Conference

SESSION I: International Perspectives on Radioactive Waste Management

09:15 – 10:45 1st 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 2nd part

Coffee Break

- Waste Disposal Moving from Strategy to Realiy
 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 througout 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 1st 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 2nd 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

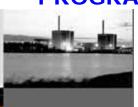
 Modelling of Nuclide Migration for Support of the Site Selection for Near Surface Repository in Lithuania

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 1st 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 2nd 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 G

- 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 Cutural 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. Brazauskaite, 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

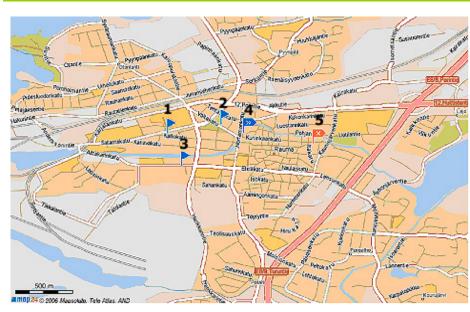




- Triumf The Swedish Data Base System for Radioactive Waste in SFR
 - Marie Skogsberg Swedish Nuclear Fuel and Waste Management Co. Sweden
- The Tunnel Sealing Experiment: The Construction and Performance Full Scale Clay and Concrete Bulkheads at Elevated Pressure and Temperature
 - J.B. Martino, D.A. 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



- Hotel Best Western
 Kalliohovi
- 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 www.raumanair.fi Booking in advance is necessary. Alternatively, there are good intercity bus connections (www.expressbus.com) with buses going every 1-3 hours except during the night or train connections (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







European Nuclear Society

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