



UPPSALA
UNIVERSITET

Workshop on Materials Challenges in Present and Future Nuclear Energy Technology

Oskarshamn, Sweden, 9-11 March 2009

Program

2009-03-09

Arrival

18.00 Get-together at hotell Corallen.

18.30 Dinner at hotel Corallen followed by a presentation by Dr. Per Brunzell.

2009-03-10

Work shop (details on next page)

08.00 Buss transport from Sjöfartshotellet to workshop at Äspö, conference room Ekholmen.

12.30 Lunch at Hyllan.

17.10 Workshop ends. Buss transport back to Sjöfartshotellet.

18.30 Get-together at Steakhouse Oscar.

19.00 Dinner at Steakhouse Oscar.

2009-03-11

Field trip (buss pick-up time later)

08.00 Information from Mr. Peter Wikberg

08.10 Presentation of the Canister Laboratory. Presentation of SKB and the facility. Coffee.

08.30 Guided tour of the facility.

09.30 Transport from the Canister Laboratory - Clab.

10.00 Arrival at the Clab entrance. Passport control. (Marked "Clab-vakten" on the map).

10.15 Presentation of SKB and Clab.

10.45 Guided tour of the facility.

12.15 Lunch at restaurant Claberian.

13.15 Arrival at Urbergsentrén outside Clab. Passport control.

13.30 Presentation of SKB and the Äspö Hard Rock Laboratory (HRL).

14.00 Guided tour by bus to the depth of 420 metres. Elevator up to Äspö research village.

15.00 Questions and conclusions. Coffee.

15.30 Departure.





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2009-03-10 Workshop program details

08.00 Buss transport from Sjöfartshotellet to workshop at Äspö, conference room Ekholmen.

09.00 Introductory remarks Joseph Nordgren.

09.20 Pål Efsing *"R&D at the power companies"* (trans. from *"Dagens utvecklingsarbete vid kraftbolagen"*)

09.40 Mats Molin TBA

10.00 Inna Soroka *"Oxidation kinetics of amorphous Zr-Al alloys"*

10.20 **Break**

10.50 Anna-Maria Alvarez *"PCMI driven failure mechanisms in LWR cladding during normal operation and anticipated transients and the effect of burn-up"*

11.10 Larisa Mileshina *"Pulsed Positron Beam for Studying Defects in Solids"*

11.30 Per Brunzell *"Designing an NPP in the 21st Century - Challenges and Reality"*

11.50 Jan Blomgren *"GenIV and the Swedish nuclear industry"*

12.10 Janne Wallenius *"Materials research for Generation III and IV reactors at KTH"*

12.30 **Lunch** at Hyllan

13.20 Annika Olsson *"The Materials Day 2009, Materials for Sustainable Energy - A unique opportunity to make contacts and exchange knowledge"*

13.40 Jean-Paul Crocombette *"Atomic scale simulations of point defects and irradiation damage in nuclear ceramics"*

14.00 Lynda Soderholm TBA

14.20 James Tobin *"A Path Forward to Advanced Nuclear Fuels: Spectroscopic Calorimetry of Nuclear Fuel Materials"*

14.40 **Break**

15.00 Alain Pasturel *"Ab initio studies of point defects and stability of fission products in uranium dioxide"*

15.20 Mats Jonsson *"Radiation induced dissolution of spent nuclear fuel"*

15.40 Claude Degueldre *"Inert matrix perspectives and prospective fuel studies"*

16.00 **Break**

16.10 Panel discussion. Moderators Joseph Nordgren, Ane Håkansson, Per Brunzell and Lynda Soderholm.

17.10 Workshop ends. Buss transport back to Sjöfartshotellet.

18.30 Get-together at Steakhouse Oscar.

19.00 **Dinner** at Steakhouse Oscar.