



INVITATION

To participate in

Scientific Possibilities in the Oskarshamn Region in Kalmar County

KALMAR, SWEDEN

5-6 NOVEMBER 2012

Initiated by

KTH Royal Institute of Technology

Nova Center for University Studies, Research and Development

Inviting partners

The Municipality of Oskarshamn

SKB Swedish Nuclear Fuel and Waste management Co

The Regional Council in Kalmar County

County Administrative Board Kalmar



Oskarshamns
kommun



nova
UTBILDNING, FoU &
AFFÄRSUTVECKLING

REGIONFÖRBUNDET
I KALMAR LÄN



Länsstyrelsen
Kalmar län



1 Conference Venue

The Conference will be held at *Calmar Stadshotell* in the city of Kalmar.

In the 1300's, Kalmar was one of Sweden's main cities due to its proximity to the sea and its strategic location at the Baltic Sea. Kalmar Castle, which was built by Magnus Ladulås in the late 1200's, was the site of the signing of the Union of Kalmar on July 20th, 1397, which joined all of the Nordic countries under a common ruler. Today Kalmar is a modern meeting place.

There are daily flights from Stockholm/Arlanda and Stockholm/Bromma to Kalmar Airport.

Suitable arrivals to Kalmar Airport from Stockholm at Monday 5 November:

Stockholm/Bromma DC481 arrive at 08:50

Stockholm/Bromma DC491 arrive at 10:00

Stockholm/Arlanda KF523 arrive at 10:00

Note on registration form if you will arrive with these flights, we will arrange transfer from the airport to the conference.

Suitable departure from Kalmar Airport to Stockholm at Tuesday 6 November:

Stockholm/Arlanda KF520 departure at 17:55

Note on registration form if you will depart with this flight, we will arrange transfer from the conference to the airport.

For other flights or train, please use the links below. It is recommended to book your taxi transfer between the airport and the conference in advance.

When arriving by train, Kalmar central station is situated in Kalmar city only 15 minutes of walk from Calmar Stadshotell where the conference is held.

Kalmar Airport (Stockholm/Arlanda):

<http://www.kalmarairport.com>

Kalmar Flyg (Stockholm/Bromma)

<http://www.kalmarflyg.se>

Travel by train – SJ:

<http://www.sj.se/>



2 Organisation

Conference Planning Committee

Conference chairman Professor Ulf Karlsson, KTH Royal Institute of Technology.

Scientific Programme

Professor Georgia Destouni, Stockholm University (National Geosphere Laboratory)

Professor Mats Jonsson, KTH Royal Institute of Technology (Rad Lab Sweden)

Professor Folke Snickars, KTH Royal Institute of Technology

Rector Bengt Karlsson, Nova Center for University studies, Research and Development

Organisation

Manager – Communication Marguerite Mitte Nilsson, SKB Swedish Nuclear Fuel and Waste management Co

Administrator Anna Rockström, Nova Center for University studies, Research and Development

Coordinator Rebecca Thidell, SKB Swedish Nuclear Fuel and Waste management Co

Registration and Hotel Bookings

Online registration and hotel booking arrangements will be handled by Conference Agency, Konferenskonsult Berit Rudolfsson AB, in Kalmar, Sweden. Participation in the conference is free of charge but hotel charges are to be paid directly to the hotel by the participants.

Register for the Conference and make your hotel reservation online via the conference website:

www.konferenskonsult.nu/scientificpossibilities

Registration closes on Friday 19 October

After this date no registrations will be guaranteed and hotel bookings will not be available online.

Contact Information

If you have queries about the conference contact

rebecca.thidell@skb.se 0491-76 77 06

anna.rockstrom@oskarshamn.se 0491-882 78

Website

For information, news about the conference and updated program, visit our websites:

www.skb.se/Scientificpossibilities (Swedish)

<http://www.novaoskarshamn.se/Scientificpossibilities.aspx> (English)



3 Conference Theme

The Conference will address the theme “Scientific Possibilities in the Oskarshamn Region in Kalmar County”

Äspö HRL User Meeting – National Geosphere Laboratory (NGL)

The aim is to create a National Geosphere Laboratory at Äspö Hard Rock Laboratory with surroundings and related research-supporting facilities.

Rad Lab Sweden

Radiation effects on materials are crucial for the performance and safety of nuclear technology. RadLab Sweden is an initiative to create a national infrastructure with the purpose of strengthening Swedish academic and industrial research on the effects of ionizing radiation on materials.

Use of Surplus Energy to enhance profitability in closed Aquaculture systems

How use of surplus energy from industry for fish production and aquaculture could create possibilities.



4 Programme Overview

Monday 5 November

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| 10:00 | Coffee |
| 11:00 | Introduction and background |
| 11:30 | The National Geosphere Laboratory
Georgia Destouni, Stockholm University |
| 11:50 | Environmental and ground water research in an international perspective
Steven A Banwart, University of Sheffield |
| 12:40 | Lunch |
| 13:30 | Opportunities and challenges in exploring the microbiome of the deep biosphere
Stefan Bertilsson, Uppsala University |
| 13:55 | Real time monitoring of corrosion of copper in near repository environment at the Äspö HRL,
Jinshan Pan, KTH Royal Institute of Technology, Stockholm |
| 14:20 | Chemistry of groundwater in bedrock fractures
Mats Åström, Linne University |
| 14:45 | Title to be announced Anders Kiessling, Swedish University of Agricultural sciences |
| 15:10 | Coffee |
| 15:30 | Discussion sessions |
| 16:30 | Poster session, research at Äspö and Oskarshamn |
| 17:45 | Summary of day 1 |
| 19:30 | Dinner |



Tuesday 6 November

- 8:45 Presentation of the ideas behind RadLab Sweden
Mats Jonsson, , KTH Royal Institute of Technology, Stockholm
- 9:15 Experiences from building the Dalton Cumbrian Facility,
Simon Pimblott, Research Director, Dalton Cumbrian Facility, UK)
- 10:00 Coffee
- 10:30-12:00 The need for research on radiation effects on materials
- 10:30 OKG
- 10:45 Forsmark
- 11:00 Ringhals
- 11:15 SKB
- 11:30 SSM
- 11:45 Westinghouse
- 12:00 Lunch
- 13:00 A short introduction to group discussions
- 13:10 Group discussions
- 15:00 Coffee and informal discussions
- 15:20 Presentations (based on group discussions)
- 16:20 Summary and conclusions (How do we continue from here?) Ulf Karlsson and Inviting partners