



NGL ANNUAL SCIENCE MEETING

Oskarshamn, 7-8th of November 2013

PROGRAM



Stockholm
University

nova CENTER FOR UNIVERSITY STUDIES,
RESEARCH AND DEVELOPMENT



Oskarshamns
kommun

Thursday 7th of November 2013

08.45 - 10.00 Breakfast for early arrivals at Forum

10.00-10.30 Registration, coffee

10.30-10.45 Welcome addresses

Chairman Ulf Karlsson, KTH, Ann-Christine Vösu, Oskarshamn municipality and Bengt Karlsson, Nova

10.55 - 11.10 Introduction to NGL

Georgia Destouni, Stockholm University

11.10-12.00 Session: NGL accessibility and educational opportunities

11.10-11.30 Marcus Laaksoharju, Nova R&D - Access to the largest geosphere laboratory in the world – the Äspö Hard Rock Laboratory

11.30-12.00 Lars O. Ericsson, Chalmers - Development of a Joint University (Virtual) Institute for Applied Geosciences - keynote

12.00-13.10 Lunch

13.10-14:20 Session: Water and Climate

13.10-13.40 Wendy Graham, University of Florida, Gainesville, USA - Challenges and Opportunities for Interdisciplinary Water-Related Research Consortia - keynote

13.40-14.00 Bo Olofsson, KTH - Sustainable water supply in coastal hard rock areas - possibilities and challenges

14.00-14.20 Katerina Mazi, Stockholm University and National Observatory of Athens, Greece – Evaluating seawater intrusion at the regional-scale in intensely exploited coastal aquifers

14.20-14.40 Coffee

14.40-15.50 Session: (Bio)geochemistry

14.40-15.10 Steven Banwart, University of Sheffield, UK - Critical Zone Observatories: quantifying the chain of impact between biosphere and geosphere - keynote

15.10-15.30 Henrik Drake, Linnaeus University - Using secondary minerals and hydrochemistry to trace geochemical processes in the deep subsurface

15.30-15.50 Martin Dietzel, Graz University of Technology, Austria - Fractionation of Trace Elements and Isotopes during Crystallization of Calcium Carbonates in Aquatic Systems - Experiments and Applications

15.50-16.50 Poster session – refreshments

16.50-18.00 Session: Rock environment-material characterization and interactions

16.50-17.20 Jerker Jarsjö, Stockholm University - Estimation of characteristic relations for unsaturated flow through rock fractures - keynote

17.20-17.40 Stellan Holgersson, Chalmers - Specific surface area and porosity of rock samples from Äspö – work done within the EU CROCK project

17.40-18.00 Robert Eason, KTH - Kinematic Porosity and Heteroscedasticity in Hard Rock Terrains

19.00 Conference Dinner, at Badholmen

Friday 8th of November 2013

09.00-10.00 Session: Geobiology

09.00-09.30 Christine Heim, Geoscience Centre Göttingen, Germany - High Resolution Characterization of Recent and Ancient Microbial Systems in the Äspö Hard Rock Laboratory - keynote
09.30-10.00 Karsten Pedersen, Chalmers - Distribution of sulphate-reducing bacteria and Archaea in Äspö groundwater

10.00-10.20 Coffee

10.20-11.30 Session: Pollutant Transport–Remediation

10.20-10.50 Auli Niemi, Uppsala University - Study of flow and transport of gases, CO₂, NAPL and nano-particles in fracture systems on the local and multiple-fracture scales - keynote
10.50-11.10 Vladimir Cvetkovic, KTH - Coastal transport processes: From catchments to archipelagos
11.10-11.30 Andrew Quin, Stockholm University - Investigating the role of catchment wetlands in reducing nutrient loads to the Baltic Sea

11.30-12.30 Lunch

12.30-14.50 Session: Breakout meetings

12.30-13.50 Disciplinary breakout meetings
13.50-14.50 Reports from breakout meetings

14.50 - 15.20 Summary of the conference

Ulf Karlsson, KTH

15.20 End of conference (coffee available)