

# Seminar on sea level displacement and Bedrock Uplift

University Consortium of Pori

10-11 June, 2010

<http://www.pori.tut.fi/BedrockUplift/home.html>

Arranged by Tampere University of Technology, Pori  
in cooperation with Posiva Oy

## Programme

<b>DAY 1</b>
12:00 Welcome and introduction
12:10 Lunch
<b>13:00 Session 1: Causes and mechanisms</b> 13:00 – 13:30 Last glaciation and past stages of the Baltic (Natalia Pimenoff, FMI) 13:30 – 14:00 Geological background: bedrock in Satakunta (Matti Pajunen, GSF) 14:00 – 14:30 <i>Discussion</i>
14:30 Coffee break
<b>15:00 Session 2: Observations</b> 15:00 – 15:30 Dating of past coastline positions - challenges of using various types of data as input to modelling (Jari Turunen, TUT/Pori) 15:30 – 16:00 Present bedrock movements and land uplift (Markku Poutanen, FGI) 16:00 – 16:30 <i>Discussion</i>
16:30 Coffee break
<b>17:00 – 18:00 Open discussion: What is the starting point in bedrock uplift modelling?</b>
<b>19:30 Dinner at Suomalainen klubi / Svenska klubben (Eteläranta 10)</b>

<b>Poster session during coffee breaks:</b>
Kuuskaajaskari – a daughter of the sea (Pekka Huhta, Riitta Korhonen, Kalevi Korsman)
Development of the Olkiluoto site and implications to disposal of spent nuclear fuel (Ari Ikonen, Jani Helin)
Estimated coastline in Satakunta, years 1100-1700 (Ari Ikonen)
Bothnian Sea shore-level displacement data and use of GIS tool to estimate isostatic uplift (Anne-Maj Lahdenperä, Arto Vuorela, Teea Penttinen)
Historical maps in the study of shoreline displacement (Jyrki Lehtinen)
Analysing the local deformations at Olkiluoto using GPS and leveling time series (Sonja Nyberg, Ulla Kallio, Pekka Lehmuskoski)
Archaeological radiocarbon dates and ancient shorelines – resources and reservoirs (Petro Pesonen, Juhana Kammonen, Elena Moltchanova, Markku Oinonen, Päivi Onkamo)

<b>DAY 2</b>
9:00 Coffee
<b>9:30 Session 3: Modelling methods</b> 9:30 – 10:00 Pässe's semi-empirical model re-implemented (Jari Pohjola, TUT/Pori) 10:00 – 10:30 Comparison between a new and an old semi-empirical Fennoscandian shore-level model (Tore Pässe, SGU) 10:30 – 11:00 Reconstruction of landscapes around relic sites (Kari Uotila, Muuritutkimus) 11:00 – 11:30 <i>Discussion</i>
11:30 Lunch
<b>12:30 Session 4: Implications</b> 12:30 – 13:00 Past, present and future distribution of Quaternary deposits and land use at the Forsmark site (Gustav Sohlenius, SGU) 13:00 – 13:30 Development of the Olkiluoto site and implications to disposal of spent nuclear fuel (Ari Ikonen, Posiva Oy) 13:30 – 14:00 <i>Discussion</i>
<b>14:00 Coffee break</b>
<b>14:30 – 15:30 End discussion: Significance of understanding and modelling of land uplift</b>
15:30 Adjourn