

# NKG Autumn School, Lammi Finland, 3-7.9.2012

## *Geodesy beyond 2020 in the Arctic areas*

### Programme

Bus transportation from Helsinki downtown (Railway station; 10:30) via airport (~11:30) to Lammi (13:00) on Monday morning (see webpage for updates / details)

**Monday 3.9:** 12:30 → registration

12:45-14:00 Lunch

14:15-14:30 **Niels Andersen** (DTU Space, DK): Welcome address by the President of the NKG; Geodesy in the NKG

14:30-15:30 **Jon Glenn Gjevestad** (UMB, N): GNSS – from meters to millimeters

15:30-15:50 Coffee break

15:50-16:45 **Jon Glenn Gjevestad** (UMB, N): GNSS – from meters to millimeters

16:45-17:45 **Knut Stanley Jacobsen** (Kartverk, N): Space weather challenges for users of GNSS in the Arctic region

17:45-18:45 **Jan Johansson** (Onsala, S): GNSS and climate

19:00- Icebreaker and Sauna

**Tuesday 4.9:**

07:45-08:30 Breakfast

08:30-09:30 **Ole Baltazar Andersen** (DTU Space, DK): Satellite altimetry

09:30-10:30 **Roger Haagmans** (ESA): The gravity field from space: GOCE and beyond.

10:30-11:00 Coffee break

11:00-12:30 **Roger Haagmans** (ESA): The gravity field from space: GOCE and beyond.

12:30-13:30 Lunch

13:30-18:00 GOCE user toolbox practicing (**OBA**)

13:30-18:00 *Parallel session: NKG Presidium*

15:30-16:00 Coffee break

18:00-19:00 Dinner

20:00- Sauna + snacks

**Wednesday 5.9:**

07:45-08:30 Breakfast

08:30-09:30 **Hans-Georg Scherneck** (Onsala, S): Philosophical aspects on models and modeling related to GIA

09:30-10:30 **Mark Tamisiea** (NOC, UK): GIA, glaciers and global change

10:30-10:45 Coffee break

10:45-12:15 **Mark Tamisiea** (NOC, UK): GIA, glaciers and global change

12:15-12:55 Lunch

13:00 Departure of bus to Hämeenlinna (Tavastehus)

13:45-15:30 Guided visit to Hämeenlinna Castle, coffee

16:00-18:30 Guided tour (by Joel Ahola) at Aulanko. Walking outside, so prepare with proper shoes and clothes, depending on weather

19:00-22:00 Dinner in Aulangon Kievari (our walking tour ends to the Restaurant)

22:00-22:30 Bus to Lammi

**Thursday 6.9:**

- 07:45-08:30 Breakfast  
08:30-09:30 **Kristian Breili** (Kartverk, N): Towards regional sea level projections  
09:30-10:30 **Olav Vestøl** (Kartverk, N): Determination of land uplift by combining several observation types. The method behind NKG2005LU  
10:30-11:00 Coffee break  
11:00-12:00 **Martin Lidberg** (Lantmäteriet, S): Nordic reference frames, transformations.  
12:00-12:30 **Karri Muinonen** (UoH&FGI, FI): Simulations and statistical methods  
12:30-13:30 Lunch  
13:30-15:30 **Karri Muinonen** (UoH&FGI, FI): Simulations and statistical methods, MCMC; demonstrations and exercises  
15:30-16:00 Coffee break  
16:00-17:00 How to apply NKG2005LU (**OV**) Demonstrations and exercises  
17:00-18:00 Transformation of reference frames in Nordic area (**ML**) Demonstrations and exercises  
18:00-19:00 Dinner  
20:00- Sauna + snacks

**Friday 7.9:**

- 07:45-08:30 Breakfast  
08:30-09:30 **Per Helge Andersen** (FFI, N): Combining geodetic techniques for monitoring global change  
09:30-10:30 **Ulla Kallio** (FGI, FI): Local ties at fundamental stations  
10:30-10:50 Coffee break  
10:50-11:50 **Markku Poutanen** (FGI, FI): Role of GGOS and regional observing systems  
11:50-12:10 **Discussion:** Geodesy beyond 2020 in the Arctic areas  
12:10 Closing the Autumn School  
12:15-13:00 Lunch  
13:15 Departure of bus to Airport and Helsinki

Bus transport from Lammi (~13:15) via airport (~14:45) to Helsinki downtown (~15:15)

Participants should have their own laptop for exercises. Material will be made available before the Autumn School via the NKG Web page

- Registration:** A separate sheet to be filled and returned  
**Registration fee:** 400 Euros  
**Deadline:** August 10, 2012 (for registrations and payments).

The registration fee covers accommodation (either 1 or 2 person rooms), meals, excursion, and bus transportation on Monday morning (3.9) from Helsinki downtown via airport to Lammi and on Friday afternoon back to Helsinki via airport.

There will be a limited number of single rooms; most rooms are double. Priority for single rooms is for lecturers; rooms will be organized after the number of participants is known.

For questions, please e-mail to [NKG2012@fgi.fi](mailto:NKG2012@fgi.fi) or [Markku.Poutanen@fgi.fi](mailto:Markku.Poutanen@fgi.fi)