An Advanced Study Course

March 1-8 2002

Snow in North European Environment

Organizers: Arctic Centre, University of Lapland
Department of Geophysics, University of Helsinki and
Date: 1-8 March 2002
Site: Arctic Centre, Rovaniemi and Kilpisjarvi Biological Station

An advanced course "Snow in North European Environment" will be arranged for the 4th time in Finland. The objectives are to

- Provide the status of knowledge in snow physics;
- Introduce the role of snow in ecological systems;
- Describe the snow conditions in Europe.

This snow school is multidisciplinary and the target group is post-graduate students. The school is supported by EU Fifth Framework and is event 3 of the GlacioEuroLab series. Accommodation and transportation between Rovaniemi and Kilpisjarvi are free to research students. Additional travel support may also be possible, please contact us. The course includes lectures, exercises, field-work and snow recreation.

Contents:

1. Snowfall, snow formation in the atmosphere
2. Snow accumulation processes
3. Snowpack energy and mass balance
4. Snow metamorphism
5. Snow monitoring
6. Avalanches
7. Field measurement techniques
8. Remote sensing of snow
9. Snow ecology
10. Snow in the arts
11. Snow engineering
12. Snow building and snow sculpting

There are 4-8 hours lectures per day plus teaching in the field. In the evenings some snow videos are shown. At the end there is a written exam and a field task for the students to pass the course.

The first day of the course will be spent at Rovaniemi where there will be the opening of a new Ice Exhibition in the Arktikum Science Centre, lectures and general activities associated with the Arctic Centre and its researchers.

In earlier runs of the course in 1995, 1997 and 1999 the general feeling was quite positive. The multidisciplinary approach was most fruitful both for the students and for the teachers. Being able to have field exercises was a key feature because with

snow many characteristics become easily understandable when working with the material. Also introducing arts and sports around snow was refreshing. The change of view tends to prevent people getting bored and inspires alternative thinking about snow problems.

Those interested in the course should contact us (preferably by email) telling
- name and address
- home University and department
- study topic (snow physics, glaciology, winter ecology,)
- need for financial support
- nationality
- age
- sex

The deadline is January 15 2002.

Contacts:

John Moore, Arctic Centre,
University of Lapland,
Box 122, FIN-96101
Rovaniemi,
Finland;
phone +358 60 324 757, fax +358 60 324 777 email jmoore@urova.fi
http://www.urova.fi/home/hkunta/jmoore/johnpage.htm

Matti Leppäranta,
Branch of Geophysics, Department of Physical Sciences
University of Helsinki
Box 64 (Nils Hasselblomin katu 2)
FIN-00014 Helsinki, Finland
phone +358-9-19151016, mobile +358-(0)50-5378725,
fax +358-9-19151000, e-mail Matti.Lepparanta@Helsinki.Fi