

The University of Minnesota (UMN)
and
The Norwegian University of Life Sciences (UMB)

Workshop at Ås, September 11-12, 2006
Biotechnology and Bioenergy
- impact on environment and health

The universities gratefully acknowledge the following contributing co-organizers

Royal Norwegian Ministry of Foreign Affairs
The Royal Norwegian Consulate General, Minneapolis
Royal Norwegian Ministry of Agriculture and Food
Royal Norwegian Ministry of Education and Research
United States Embassy, Norway
Norwegian institute for agricultural and environmental research
Norwegian forest and landscape institute

The M&A Group, LLC., Minneapolis
Norwegian-American Chamber of Commerce, Upper Midwest Chapter

Hotel

Ski Thon Hotel, 1401 Ski, about 8 km from Ås. Telephone: +47 64 85 35 00. E-mail: ski@thonhotels.no. When booking, refer to code = UMB to obtain university price, which is NOK 765 for a single room per night.

Transport

From Oslo Airport Gardermoen to Ski Thon Hotel. Take the bus called Flybuss-ekspressen, route F4 Ski. (not SAS Flybussen, which ends in Oslo). Ski station is the end stop of this route. Ski Thon Hotel is about 100 m from the bus stop. Departure from the airport every hour (08.00, 09.00, 10.00,). For further information in English, see www.flybussekspressen.no. Price NOK 175. Travel time 1:20 hour.

From Ski Thon Hotel to the university: Local pick by Ford Flexifuel cars.

Welcome Reception, Sunday, September 10, 2006, 18:00-20:00

Welcome Reception for all Seminar Participants with refreshments in the presence of Patricia Attkisson, Acting Public Affairs Officer, United States Embassy, Norway, Per Harald Grue, Secretary General, Norwegian Ministry of Agriculture and Food and Knut Hove, Rector, Norwegian University of Life Sciences.

Venue: Ski Thon Hotel, 1401 Ski (100m from Ski railway station) ski@thonhotels.no

Workshop program Monday, September 11, 2006

08:00 Meet in the hotel lobby, Transport by Ford Flexifuel cars

Venue: Centre for Plant Research in Controlled Climate, Norwegian University of Life Sciences, Ås

08:30 ***Welcome and Overview***

Knut Hove, Rector, UMB

Robert Elde, Dean, College of Biological Sciences, UMN

09:00 ***GENOMICS and BIOTECHNOLOGY; project 1-3***

Review, Scientific results, Industry partners, Other universities, Students, Plans

Project 1: Genomic studies of pathogenic bacteria related to food safety and animal and human health

Ingolf F. Nes and Vivek Kapur (not present)

Project 2: Functional genomics to advance dairy cattle health

Sigbjørn Lien and Scott Fahrenkrug

Project 3: Mycotoxin prevention in cereal crops by enhanced host plant resistance

Åsmund Bjørnstad and Jim Anderson (not present)

10:30 ***Break***

10:45 ***BIOMASS and BIOENERGY; project 4-6***

Review, Scientific results, Industry partners, Other universities, Students, Plans

Project 4: Developing and testing airborne LiDAR-Based sampling procedures for regional forest biomass and carbon estimation

Erik Næsset and Paul Bolstad (not present)

Project 5: Bioenergy based on forestry and agricultural resources: Ecological, technical, and economic potential in Norway and Minnesota with emphasis on carbon sequestration impacts and rural value added

Erik Trømborg (for Birger Solberg) and Dean Current (for Howard Hoganson)

Project 6: Liquefaction of biomass for biofuel production

Petter H. Heyerdahl and Roger Ruan

12:15 **Lunch**

Venue: Centre for Plant Research in Controlled Climate (SKP)

13:30 **NEW INITIATIVES** (20 minutes per presentation)

Bioenergy

Integrated Biorefining and Lignocellulosic Conversion

Shri Ramaswamy UMN

Enzyme Science and Technology related to Bioenergy

Vincent Eijsink UMB

The Lignin Problem

Simo Sarkanen UMN

Climate change

Climate and Energy

Elizabeth Wilson UMN

Animal Genomics

Bovine Sex Chromosomes' Genomic organisation

Abel Ponce de Leon UMN

15:00 **Refreshments and Breakout Sessions for**

- Project teams

- Fourth Annual Academic and Industry workshop in Minneapolis June 2007

Social Dinner

Frognerstøen, Oslo <http://www.frognerstøen.no>

17:00 Departure to Ski Thon Hotel by flexifuel cars

18:15 Departure from the Hotel to Frognerstøen by bus

22:30 Return from Frognerstøen to Ski by bus

Workshop program Tuesday, September 12, 2006

08:00 Meet in the hotel lobby, Transport by Ford Flexifuel cars

Venue: Centre for Plant Research in Controlled Climate (SKP), Norwegian University of Life Sciences, Ås

08:30 **Reports and feed back on the previous day's breakout sessions**

Next project steps (5 minutes per project)

Project leaders

Fourth Annual Academic and Industry workshop in Minneapolis June 2007
(This workshop will build on existing research and collaboration and expand to include potential business partners from Norway and the U.S.) (20 minutes)

Linda Pederson, The Norwegian Consulate General, Minneapolis

09:45 **The Executive board for the UMN-UMB collaboration**

Strategic Actions and Priorities of internal Resources for the next half year

Bob Elde and Knut Hove

10:30 **Break**

10:45 **STUDENT MOBILITY**

Plans for student mobility and summer school 2007

Trine Hvoslef Eide, Prorector, UMB and Judd Sheridan UMN

How to reduce obstacles for student mobility

Siri Margrethe Løksa, Director of Academic Affairs, UMB and Judd Sheridan UMN

Fulbright program and stipends

Tove Lain Knudsen, Fulbright Norway <http://www.fulbright.no/>

12:15 **Lunch**

Speaker: Bellona

13:15 **GUIDED TOUR on Campus Ås**

a. Biofuels Research lab

b. Centre for Integrative Genetics

c. Aquaculture Research lab

d. Biotech Building incl. Research labs

Oslofjord Cruise and Dinner

Sailship from Rådhusbrygga, Oslo

15:30 Departure to Ski Thon hotel by flexifuel cars

16:30 Departure from the hotel to Oslo by bus

22:30 Return from Oslo to Ski by bus