

NOVA Intensive PhD-course

Insect Pollinators and Pollination Ecology

Time: 09-16 September 2006

Place: Tvärminne Research Station, University of Helsinki, Finland

Intended for: PhD-students in apiculture, social insects, applied entomology, ecology, evolutionary biology, horticulture, crop production, environmental scientists, development studies, etc

Level, credits: PhD, 4 ECTS

Aim: The aim of this course is to critically review data on pollinator declines and its reasons; to learn the types and roles of different insect pollinators and their ecology vs. plant ecology; to learn ways to improve pollination of crop and wild plants. The students will learn about the role of pollination in insect and plant ecology, pollinator attraction (insect and plant features), foraging behaviour, the role of environmental changes; and habitat restoration

Teachers:

Prof. James **Thomson**, Toronto, Canada
 Dr. Neal **Williams**, Canada
 Prof. Ingemar **Fries**, SLU, Sweden
 Dr. Annette Bruun **Jensen**, KVL, Denmark
 Doc. Ilkka **Teräs**, Helsinki, Finland

Registration deadline: 30 April 2006

Course organizer, registration, enquiries:

Prof. Heikki Hokkanen, University of Helsinki
heikki.hokkanen@helsinki.fi

All relevant information about the BeeNOVA Network and the courses, including application forms, is available at:

<http://www.BeeNOVA.net>

Visit also: www.nova-university.org



Network coordinator, enquiries:

prof. Heikki Hokkanen, Univ. of Helsinki
heikki.hokkanen@helsinki.fi

Network secretary:

Ingeborg Menzler-Hokkanen, Finland
ingeborg.menzler-hokkanen@helsinki.fi

NOVA APICULTURE NETWORK

BeeNOVA

2006

NOVA Intensive MSc and PhD courses in Apiculture



- **Bees, Apiculture and Pollination**
 May 2006, SLU Sweden (MSc)
- **Bee Diseases**
 August 2006, KVL, Denmark (MSc)
- **Bee Products and Economics**
 October 2006, HU-AF, Finland (MSc)
- **Insect Pollinators and Pollination Ecology**
 Sept. 2006, HU-AF, Finland (PhD)



NOVA Intensive MSc-course Bees, Apiculture and Pollination

Time: 2 May – 2 June, 2006

Place: SLU, Uppsala

Intended for: All interested students from a wide variety of backgrounds, including apiculture, applied entomology, horticulture, agronomy, food science, environmental sciences, development studies, etc.

Level: Advanced undergraduate/graduate students

Credits: 8 ECTS

Aim: The course gives a background in the area of apiculture, pollinators and bee pollination. Excursions in the vicinity of Uppsala allow field application of theory acquired during lectures and laboratory work. The practical parts of apiculture in the course are taught in the SLU apiary. Beginners and also more advanced students of apiculture will gain understanding of apiculture and acquire practical skills through this course.

Teachers:

Ingemar **Fries**, SLU, Sweden
Erik **Sjödén**, SLU, Sweden
Anders **Lindström**, SLU, Sweden

Course organizer, registration, enquiries:

prof. Ingemar Fries, SLU, Sweden
ingemar.fries@entom.slu.se

NOVA Intensive MSc-course Bee Diseases

Time: 6-12 August, 2006

Place: KVL, Copenhagen, Denmark

Intended for: All interested students from a wide variety of backgrounds, including apiculture, applied entomology, horticulture, agronomy, food science, environmental sciences, development studies, etc.

Level: Advanced undergraduate/graduate students

Credits: 5 ECTS

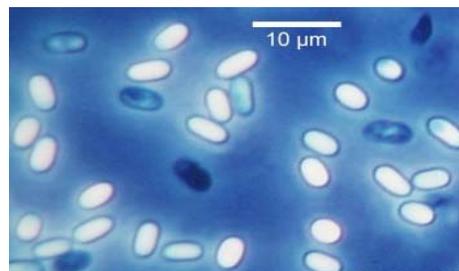
Aim: The course aim to give the students a solid background of various aspects of bee diseases and how different strategies have to be incorporated in a sound and healthy beekeeping. The course will provide the students with understanding of the different organisms that cause diseases in honeybees, disease transmission, disease development, disease defences including hygienic behaviour, resistance breeding and genetics as well as national managements and regulations of honeybee diseases. The students will learn how to diagnose diseases and how the different diseases can be controlled or treated. As part of the course group work will be initiated while on the KVL campus, and will be continued thereafter by use of the IT conferences over the KVL campus net. The group work will end with a joint project/report of a topic chosen by the students. The intention is to allow the students to study their chosen topic in detail.

Teachers:

Per **Kryger**, DIAS, Denmark;
Annette Bruun **Jensen**, KVL, Denmark;
Asger Søgaard **Jørgensen**, Denmark;
Ingemar **Fries**, SLU, Sweden,
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Course organizer, registration, enquiries:

prof. Jørgen Eilenberg, KVL, Denmark
jei@kvl.dk



NOVA Intensive MSc-course Bee Products and Economics

Time: 2-12 October, 2006

Place: University of Helsinki, Finland
Viikki campus, Department of Applied Biology

Intended for: All interested students from a wide variety of backgrounds, including apiculture, applied entomology, horticulture, agronomy, food science, environmental sciences, development studies, etc.

Level: Advanced undergraduate/graduate students

Credits: 5 ECTS

Aim: The aim of this course is to give the students a solid background of the various aspects of bee products. The course will provide the students with knowledge of the composition, quality requirements, uses, quality, marketing, economics, and international and national regulations concerning honey, wax, pollen, propolis and royal jelly. Lab practices and demonstrations in analytics and refinement of bee products will give the students confidence in dealing with bee products and stimulate their ideas for further product development in this area. Multidisciplinary group work will ensure the breath of understanding of the technical, biological, ecological, economic, and social context of apiculture, bee products, and their potential in the Nordic countries countries as well as in the developing world.

Teachers:

Werner **von der Ohe**, Celle, Germany
Ingemar **Fries**, SLU, Sweden
Lauri **Ruottinen**, Finland
Kari **Koivulehto**, Finland
Ingeborg **Menzler-Hokkanen**, Finland

Course organizer, registration, enquiries:

prof. Heikki Hokkanen, University of Helsinki
heikki.hokkanen@helsinki.fi