



DET JORDBRUGSVIDENSKABELIGE FAKULTET
AARHUS UNIVERSITET

PhD Summer School 21 June - 2 July 2010

Aarhus University, Flakkebjerg, DK-4200 Slagelse, Denmark

Hands-on LC-MSMS analytical chemistry of phytochemicals

Short description

Knowledge of advanced chemical analysis is a necessary tool in research on bioactive natural compounds from plants both when focus is on the compounds' health effects and their defence properties against insects, weeds and diseases. Analytical chemistry can of course be studied in books, - but with practical laboratory work you will learn much more. The course will take place in a well-equipped laboratory at Aarhus University, Flakkebjerg, Denmark. Three LCMSMS apparatuses will be available for the students during the course, and the use of the equipment will be taught by our experienced technicians. Techniques on the practical preparation of natural samples will be trained as well.

Preliminary programme

The course is built up as follows:

1. Preparatory reading of selected chapters of LCMSMS textbook (sent by mail to the participants no later than 2 months before the start of the intensive part of the course)
2. Participation in a 10-day on-site course at Research Centre Flakkebjerg from Monday 21 June to Friday 2 July 2010 – both days included.
3. Hand-in of a report no later than two weeks after the on-site course.

Additional information on the course content will be announced at

<http://www.agrsci.org/content/view/full/1557>

Course weight

7.5 ECTS credit points (European Credit Transfer System).

Course assessment

The report is assessed as "passed" or "not passed". Presence at minimum 90% of theoretical and practical lessons is required as well to obtain the course diploma.

Lecturers

Senior Scientist Inge S. Fomsgaard (course coordinator)

<http://www.agrsci.org/content/view/full/1557>

Senior Scientist Niels Henrik Hyttel Spliid

Laboratory Technician Anne G. Mortensen

Laboratory Technician Bente Laursen

Laboratory Technician Kirsten Heinrichson

PhD student Jonas Lekfeldt

Other visiting lecturers will be announced later.



Course venue

The course venue is Research Centre Flakkebjerg, situated in Southwest Zealand, 10 km south of Slagelse (100 km west of Copenhagen). Research Centre Flakkebjerg hosts two departments of the Faculty of Agricultural Sciences, Aarhus University.

Complete address of the course venue is:

Department of Integrated Pest Management

Research Centre Flakkebjerg

Forsøgsvej 1

DK-4200 Slagelse

Denmark

Tel: +45 89991900

Direct telephone number to Inge S. Fomsgaard (course coordinator: +45 89993610 or +45 22283399).

Inge.Fomsgaard@agrsci.dk

Accommodation

Accommodation will be at Danhostel, DK-4200 Slagelse, approximately 8 km from Research Centre Flakkebjerg.

Complete address:

Danhostel

Bjergbygade 78

DK-4200 Slagelse

Denmark

www.danhostel.dk/slagelse

The accommodation will be in shared rooms.

Fee

PhD students registered at a Danish university with a special price according to university agreement: 1000 €

Other PhD students **or postdocs**: 2500 €.

Fee includes costs of accommodation and meals, transport between Danhostel and Research Centre Flakkebjerg, laboratory consumables and textbook.

Deadline

Deadline for registration and payment: 15 April, 2010. Maximum number of participants: 16.

First come, first served. Registration by e-mail to: Sonja.Graugaard@agrsci.dk

SAFE (PhD School of Agriculture, Food and Environment)

Aarhus University

