**Pollinators within IPM Strategies for Agriculture**

Teachers:

Prof. Gadi V.P. Reddy, Montana State University, USA

Prof. Andi Nasruddin, Universitas Hasanuddin, Makassar, Indonesia

Dr. Paul Egan, Swedish University of Agricultural Sciences, Sweden

Dr. James Kitson, University of Newcastle, United Kingdom

Prof. Emeritus Heikki Hokkanen, University of Helsinki, Finland

Dr. Ingeborg Menzler-Hokkanen, University of Helsinki, Finland

Detailed daily schedule

**Monday 10 September**

09:00-09:10 Welcome to the course and practical information

09:10-09:40 Introduction of participants and main teachers present

10:00-11:30 Lecture, Paul Egan: IPPM (Integrated Pest and Pollinator Management) – an introduction

11:30-11:45 Questions/ answers

11:45-13:00 Lunch break – consultations with students/teachers possible

13:00-15:00 Heikki Hokkanen: field demonstration at Viikki Campus

Problem complex: flea beetle and pollen beetle pest management and pollinator protection

Leo Laaksonen: demonstration of using cameras for pest and pollinator monitoring

Transect walks to monitor pollinators, all participants: collation of information

Photo: Heikki Hokkanen

15:00-15:30 Coffee break, C-building, social room

15:30-17:00 Heikki Hokkanen: pest management and pollinator protection: how to succeed?

17:00-18:00 Group work of participants: working on the home assignment (pre-course assignment)   
in small groups to be presented on Friday

**Tuesday 11 September:**

09:00-10:30 Lecture: Gadi Reddy: Canola pest management and pollinator protection in the USA

10:30-10:45 Question/ answer

11:00-12:30 Lecture: James Kitson: Species identification and the detection of species interactions   
 using DNA barcoding

12:30-14:00 Lunch break

14:00-17:00 Lab practical by James Kitson

17:00-17:30 Student working groups

**Wednesday 12 September**

09:00-10:30 Lecture: Andi Nasruddin: IPM implementation for rice tungro virus and its principal   
 vector, Nephotettix virescens, and pollinator protection in Indonesia

10:30-10:45 Questions/answers

11:00-13:00 Lab practical by James Kitson

13:00-14:00 Lunch break

14:00-17:00 Visit to an organic farm: IPPM in practice.

**Thursday:**

09:00-10:30 Lecture, Paul Egan: IPPM – advanced concepts

10:30-10:45 Questions/answers

11:00-12:30 Practical, Paul Egan: Design of IPPM strategies for target crops

12:30-14:00 Lunch break

14:00-15:00 Lecture, Gadi Reddy: Pollinators and pesticides – keeping any risks to a minimum  
15:15-16:15 Lecture, Gadi Reddy: Pollinator health and pest management – how to strike a balance

**Friday :**

09:00-11:00 Student group work presentations

11:30-12:30 Final exam

12:30-13:00 Course evaluation

13:00-14:00 Lunch

14:00-15:00 Final discussions/questions/answers

15:00 End of course, departures