

HELSINKI SUMMER SCHOOL

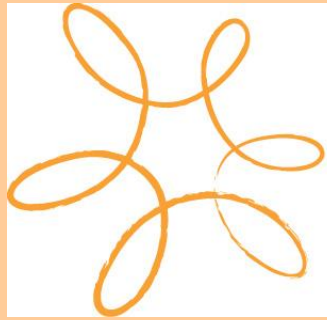
Agriculture and Environment: Ecosystem Services

Course Programme

Day 0, Tuesday, August 3rd, 2010

Opening Ceremony
Rector's Reception
Welcome Party

Voluntary day



HELSINKI SUMMER SCHOOL

Agriculture and Environment: Ecosystem Services

Course Programme

Day 1, Wednesday, August 4th, 2010

Theme Introduction

9:00-9:45 Course opening

9:45-10:00 Coffee break

10:00-11:30 Get-together session

11:30-12:30 Lunch

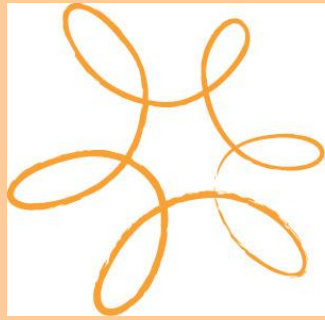
12:30-13:30 Ecosystem Services in Agriculture

Introductory lecture

Prof. Laura Alakukku, Environmental Engineering in Agriculture

Department of Agricultural Sciences, University of Helsinki

13:30-16:30 Group work on pre-course assignment



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Agriculture and Environment: Ecosystem Services

Course Programme

Day 2, Thursday, August 5th, 2010

Theme Biological Processes and Environmental Impacts

9:00-9:15 Opening & reflection

9:15-10:45 Biodiversity Functioning as a Foundation for Ecosystem Services

Lecture

*Dr. Irina Herzon, University lecturer, Agroecology,
Department of Agricultural Sciences, University of Helsinki*

10:45-11:15 Assisted group work

11:15-12:45 Sustainability in Food Systems

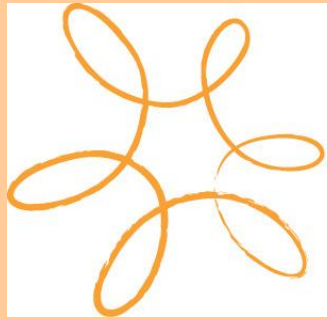
Lecture

*Prof. Juha Helenius, Agroecology,
Department of Agricultural Sciences, University of Helsinki*

12:45-13:45 Lunch break

13:45-16:30 Farmland as a Wildlife Habitat

*Dr. Irina Herzon, University lecturer, Agroecology,
Department of Agricultural Sciences, University of Helsinki*



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Agriculture and Environment: Ecosystem Services

Course Programme

Day 3, Friday, August 6th, 2010

Theme Biological Processes and Environmental Impacts

9:00-9:15 Opening & reflection

9:15-9:45 Farmland as a Wildlife Habitat

Consolidation from the fieldwork and exercise

Dr. Irina Herzon, University lecturer, Agroecology,

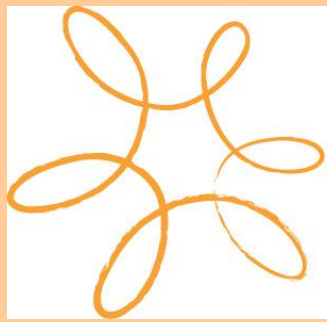
Department of Agricultural Sciences, University of Helsinki

9:45-10:00 Coffee break

10:00-12:00 Assisted group work

12:00-13:00 Lunch break

13:00-21:30 Excursion



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Agriculture and Environment: Ecosystem Services

Course Programme

Day 4, Monday, August 9th, 2010

Theme Biological Processes and Environmental Impacts

9:00-9:30 Opening & Synthesis of the first week

9:30-11:00 Biological Nitrogen Fixing (BNF) Plants

Lecture

Prof. Kristina Lindström, University lecturer, Microbiology,

Dr. Mika Kähkönen, University lecturer, Microbiology,

Department of Food and Environmental Sciences, University of Helsinki

11:00-12:30 Biological Nitrogen Fixing (BNF) Plants

Fieldwork

Prof. Kristina Lindström, University lecturer, Microbiology,

Dr. Mika Kähkönen, University lecturer, Microbiology,

Department of Food and Environmental Sciences, University of Helsinki

12:30-13:30 Lunch break

13:30-15:00 Biological Nitrogen Fixing (BNF) Plants

Laboratory work

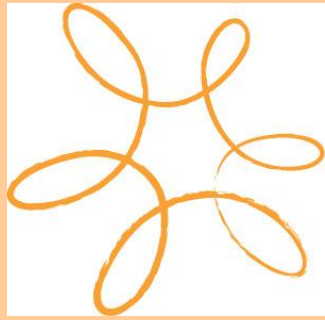
Prof. Kristina Lindström, University lecturer, Microbiology,

Dr. Mika Kähkönen, University lecturer, Microbiology,

Department of Food and Environmental Sciences, University of Helsinki

15:00-16:00 Assisted group work

16:00 - Students continue group work independently



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Agriculture and Environment: Ecosystem Services

Course Programme

Day 5, Tuesday, August 10th, 2010

Theme Biological Processes and Environmental Impacts

8:30-10:00 UN-REDD – The United Nations Collaborative Programme on Reducing Emissions from Deforestation and Forest Degradation in Developing Countries

Lecture

Mr. Adrian A. Monge Monge, Researcher

Department of Forest Sciences, University of Helsinki

10:15-11:45 Bioremediation

Lecture

Ms. Anu Mikkonen, Researcher, Microbiology,

Department of Food and Environmental Sciences, University of Helsinki

11:45-12:45 Lunch break

12:45-13:45 Biological Control and Pollination

Interview with an expert

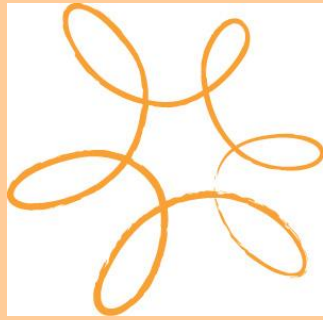
Prof. Heikki Hokkanen, Agricultural Zoology,

Department of Agricultural Sciences, University of Helsinki

13:45-14:00 Coffee break

14:00-16:00 Assisted group work

16:00 - Students continue group work independently



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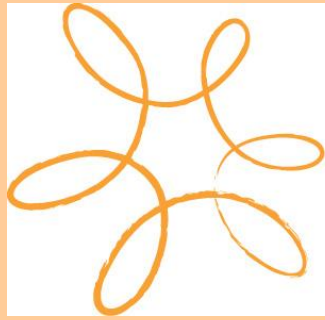
Agriculture and Environment: Ecosystem Services

Course Programme

Day 6, Wednesday, August 11th, 2010

Theme Biological Processes and Environmental Impacts

- 9:00-9:15** **Opening & reflection**
- 9:15-12:30** **Acid Sulphate Soils and Their Environmental Effects**
Lecture and fieldwork
Prof. Markku Yli-Halla, Environmental Soil Science
Department of Food and Environmental Sciences, University of Helsinki
- 12:30-13:30** **Lunch break**
- 13:30-14:30** **Biological Nitrogen Fixing (BNF) Plants**
Laboratory work
Prof. Kristina Lindström, University lecturer, Microbiology,
Dr. Mika Kähkönen, University lecturer, Microbiology,
Department of Food and Environmental Sciences, University of Helsinki
- 14:30-14:45** **Coffee break**
- 14:45-16:30** **Assisted group work**
- 16:30** **Social programme with the forestry students**



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Agriculture and Environment: Ecosystem Services

Course Programme

Day 7, Thursday, August 12th, 2010

Theme Socio-economic Importance of Ecosystem Services

9:00-9:15 Opening & reflection

9:15-10:15 **Agricultural Policy Tools in the European Union: Challenges for the Future**

Lecture

Prof. Jyrki Niemi, Agricultural Economist

Economic Research, Economics and Social Sciences,

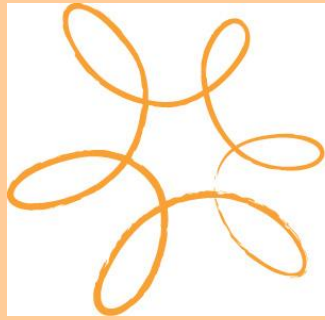
MTT Agrifood Research Finland

10:15-12:00 Group exercise on the agri-environment schemes

12:00-13:00 Lunch break

13:00-18:00 **Excursion to a Farm: Marketing Ecosystem Services**

Excursion



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Agriculture and Environment: Ecosystem Services

Course Programme

Day 8, Friday, August 13th, 2010

Theme Drama Session

8:30-9:00 **Opening & reflection**

9:00-12:00 **Drama session on governance of resources and ecosystem services**

Joint session for students of agriculture and forestry courses

Ms. Kirsi Kettula-Konttas, Researcher

Department of Forest Sciences, University of Helsinki

12:00-13:00 **Lunch break**

13:00-14:30 **Drama session on governance of resources and ecosystem services**

Joint session for students of agriculture and forestry courses

Ms. Kirsi Kettula-Konttas, Researcher

Department of Forest Sciences, University of Helsinki

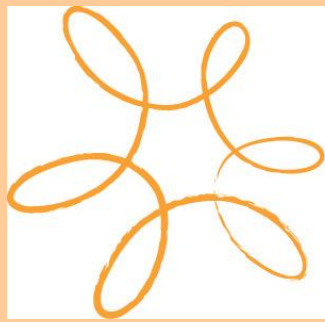
14:30-14:45 **Coffee break**

15:30-15:30 **Drama session on governance of resources and ecosystem services**

Joint session for students of agriculture and forestry courses

Ms. Kirsi Kettula-Konttas, Researcher

Department of Forest Sciences, University of Helsinki



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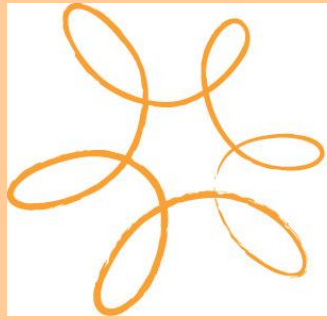
Agriculture and Environment: Ecosystem Services

Course Programme

Day 9, Monday, August 16th, 2010

Theme Socio-economic Importance of Ecosystem Services

- 9:00-9:15** Opening & reflection
- 9:15-10:45** **Economic Tools in Evaluation of Ecosystem Services**
Lecture
*Mr. Janne Artell, Research Scientist
Economic Research, Economics and Social Sciences,
MTT Agrifood Research Finland*
- 10:45-11:00** Coffee break
- 11:00-12:00** **Agriculture and Pollution**
*Dr. Petra Tallberg, Academy research fellow, Environmental Soil Science
Department of Food and Environmental Sciences, University of Helsinki*
- 12:00-13:00** Lunch break
- 13:00-15:00** Assisted group work
- 15:00-16:00** **Synthesis of the second week**
Written reflection and discussion
- 16:00 -** Students continue group work independently



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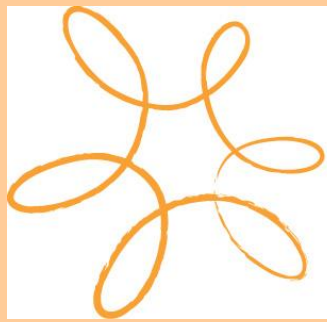
Agriculture and Environment: Ecosystem Services

Course Programme

Day 10, Tuesday, August 17th, 2010

9:00-16:00 Public Seminar

**The description of the seminar programme is provided separately.
The seminar is obligatory for the students.**



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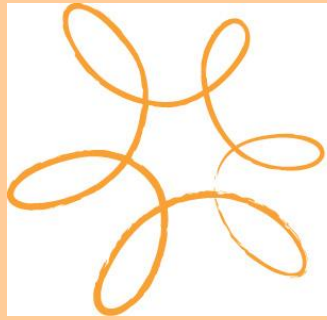
Agriculture and Environment: Ecosystem Services

Course Programme

Day 11, Wednesday, August 18th, 2010

Theme Closing Seminar: Group Presentations and Reports

- 9:00-9:30** Opening & reflection
- 9:30-11:00** Assisted group work
- 11:00-12:00** Student's Seminar: Group assignment presentations
- 12:00-13:00** Lunch break
- 13:00-14:30** Student's Seminar: Group assignment presentations
- 14:30-14:45** Coffee break
- 14:45-16:00** Evaluation of the group presentations and discussion



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Agriculture and Environment: Ecosystem Services

Course Programme

Day 12, Thursday, August 19th, 2010

Theme Closing Session: Evaluations

9:00-9:30 Opening & reflection

9:30-10:30 Course evaluation

10:30-10:45 Coffee break

10:45-12:30 SWOT analysis of the course

12:30-14:00 Farewell lunch