

**"Methods in Algae Research", 10-16 March 2007. Course with guest lectures and seminars at Åbo Akademi University, Biocity, Artillerigatan/Tykistökatu 6
Biology Department, second floor, left wing.**

The lectures are open for interested students/scientist!

Saturday 10 March

11-12 Introduction, presentation of Biocity, routines, literature, etc
13-15 Overview of microalgae. Light microscopy. Sampling methods. Tore Lindholm.
15-18 Seminars/presentations given by participants (the 4-6 first ones on the list, A-M?).

Sunday 11 March

09-10 Studying microalgae of the reed belt. Tore Lindholm.
10-12 Angela Wulff (Gothenburg): Benthic microalgae – where, how and when.
Different aspects of sampling and analysis.
14-16 Experimental field methods including macroalgae. Patrik Kraufvelin.
16-18 Seminars by participants (the 5-6 ones down on the alphabetical list, M-)

Monday 12 March

09-11 Cyanobacterial toxins and their analysis. Jussi Meriluoto.
11-12 Elimination of cyanobacteria and cyanotoxins in drinking water treatment. T Kull.
13-14 Removal of the cyanobacterial hepatotoxin microcystin-LR from aqueous solutions by *Lactobacillus rhamnosus* GG, a probiotic lactic acid bacterium. Tomas Kull.
14-16 "EYDAP S.A. Organic Pollutants Laboratory - Project on cyanotoxins" Dr. Triantafyllos Kaloudis
"Polyoxometallate photocatalysis in decontamination of aquatic environment from organic pollutants" Dr. Anastasia Hiskia
17-18 "Journal club"

Tuesday 13 March

09-10 "Journal Club"
10-12 Molecular methods in cyanobacteria research. Christina Lyra (Helsinki)
13-15 Methods for primary production study. Kristian Spilling (Helsinki)
15-17 Stable isotopes in ecological studies. Lake studies. Kristiina Vuorio.
19-21 Informal get-together somewhere for the enthusiasts. Movies, informal presentations. Diatom studies/paleolimnological methods?

Wednesday 14 March

09-11 Methods for studying flagellate behaviour. Nils Ekelund (Härnösand)
11-12 Fluorescence method for studying photosynthesis in macroalgae. Nils Ekelund.
13-14.30 Biophysical methods in cyanobacteria. Esa Tyystjärvi.
14.45-15.15 Presentation of the research laboratory. Esa and Taina Tyystjärvi.
15.30-17 Synechocystis sp. PCC 6803 – a model organism. Taina Tyystjärvi.

Thursday 15 March

- 09-10 Advanced microscopy. NN.
10-12 Investigating phytoplankton life cycles. Anke Kremp (Helsinki)
13-15 Study of mixotrophy and symbiosis in protists. Per Juel Hansen (Copenhagen)
15-16 TEM (demonstration) Hans-Peter Fagerholm.
16-17 "Journal Club"
19 Dinner together

Friday 16 March

- 09-10 Why algae produce toxins. Per Juel Hansen.
10-11 Sea water pH and phytoplankton ecology. Per Juel Hansen.
11-12 Discussion/"Journal Club".
13-14 Reporting/special tasks/Summing up the seminars, lectures and "Journal Club".
14-15 Final discussion, evaluation.

Lecturers, instructors

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Tomas Kull, Åbo Akademi University. tkull@abo.fi
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Course leader

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General informal.

Many doors of Biocity are closed, but we try to watch the doors when lectures are about to start. Please notice that there may be minor changes in the program.
The lectures are open for interested students/scientists (handouts and reprints etc are firstly intended for the course participants).