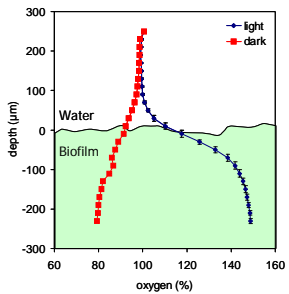
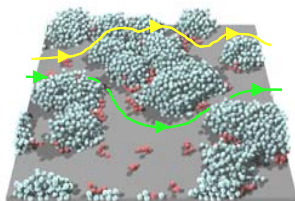


5th Advanced Biofilm Course



**October 11-16, 2010
Magdeburg, Germany**



SCOPE AND KEY ISSUES

The aim of this course is to teach three major approaches in microbial biofilm research:

1. **Laser scanning microscopy**
2. **Microsensor technique**
3. **Mathematical modelling**

The course topics include:

- Biofilm growth devices and reactors
- Biofilm development and detachment
- Biofilm processes, gradients, diffusion, kinetics
- Theory and practical aspects of micro-environmental analysis
- Theory and application of laser scanning microscopy
- Digital image analysis for quantification of 3d data
- Theory and practice of biofilm modelling

The basic idea of the course is to explore a given biofilm, via microsensor measurements, laser scanning microscopy and modelling of data recorded from the same biofilm sample.

The course is intended for PhD students and post-doc researchers in microbiology, biotechnology and related areas, who are going to use this powerful approach for the characterisation of microbial biofilms.

The course evolved as a result of the EC project PHOBIA (QLK3-CT-2002-01938).



FURTHER INFORMATION

Location

Helmholtz Centre for Environmental Research – UFZ
Department of River Ecology
Brueckstrasse 3a
39114 Magdeburg
Germany

Faculty and organizers

The course will be organised and run by:

Prof. Harald Horn

Prof. Michael Kühl



Dr. Thomas R. Neu

Dr. Cristian Picioreanu



Registration and Fees

Applications including a short outline of research and motivation should be sent before Sept 1st by email to:

Dr. Thomas R. Neu

E-mail thomas.neu@ufz.de

The subsidised fee is 400,- € and includes course material as well as lunch/tea/coffee breaks. For reasons of efficiency, the course is restricted to a limited number of people.

Other details can be found at:

<http://www.ufz.de/index.php?en=10149>