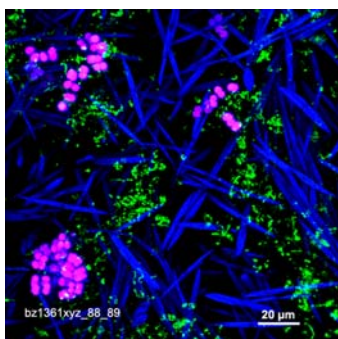
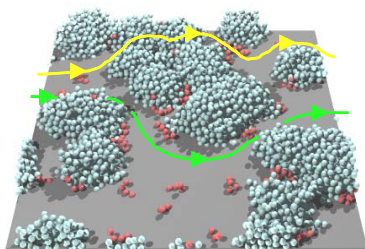


## 4<sup>th</sup> Advanced Biofilm Course



September 29 - October 3, 2008,  
University of Copenhagen, DK



### SCOPE AND KEY TOPICS

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

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

The course topics include:

- 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 5-day 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

Marine Biological Laboratory,  
University of Copenhagen  
Strandpromenaden 5,  
DK-3000 Helsingør, Denmark  
and  
Technical University of Denmark  
Lyngby, Denmark.

#### Staff and organizers

The course will be organised and run by:  
Prof. Michael Kühl ([mkuhl@bi.ku.dk](mailto:mkuhl@bi.ku.dk))  
Dr. Thomas R. Neu ([thomas.neu@ufz.de](mailto:thomas.neu@ufz.de))  
Dr. Claus Sternberg ([cst@bio.dtu.dk](mailto:cst@bio.dtu.dk))  
Dr. Cristian Picioreanu ([c.picioreanu@tudelft.nl](mailto:c.picioreanu@tudelft.nl))  
Prof. Harald Horn ([horn@bv.tum.de](mailto:horn@bv.tum.de))

#### Registration and Fees

Applications should be sent before Sept. 1<sup>st</sup>, 2008 to: Michael Kühl ([mkuhl@bio.ku.dk](mailto:mkuhl@bio.ku.dk)).  
The subsidised fee is 400,- € and includes course materials as well as tea/coffee breaks.  
For reasons of efficiency, the course is restricted to 16 participants.

Further details can be found at:  
<http://www.mbl.ku.dk/mkuhl/>



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