The Second Course on
Individual-based Modeling of Microbial Interactions & Processes Using *iDynoMiCS*

PhD Course
June 21-26, 2009

iDynoMiCS

Technical University of Denmark (DTU)
Lyngby, Denmark

DTU Environment, with the support of the European Commission, RECETO, UWT, and CREAM, is once again offering a hands-on course in the modeling of microbial systems. The course will provide an introduction to the techniques of individual-based modeling as applied to microbial growth in biofilm communities. The course will consist of core and guest lectures, and will feature an in-depth introduction to modeling microbial systems using the recently-developed software *iDynoMiCS* (individual-based Dynamics of Microbial Communities Simulator). By the end of the course, students will be able to use iDynoMiCS to model systems relevant to their own work without the need to write software of their own.

Students and researchers from the fields of environmental science, microbiology, microbial ecology, ecology, computer science, applied mathematics, engineering, and physics are encouraged to attend. Potential participants should submit their CV, letter of interest, and a reference letter from their main advisor. Please note in your application your level of programming and/or Matlab experience so that we can prepare the exercises appropriately. The number of participants is limited.

Course Instructors:

Jan-Ulrich Kreft, University of Birmingham (UK)
Laurent Lardon, INRA-LBE (FR)
Brian Merkey, DTU (DK)
Joao Xavier, Harvard (USA)
Barth F. Smets, DTU (DK)
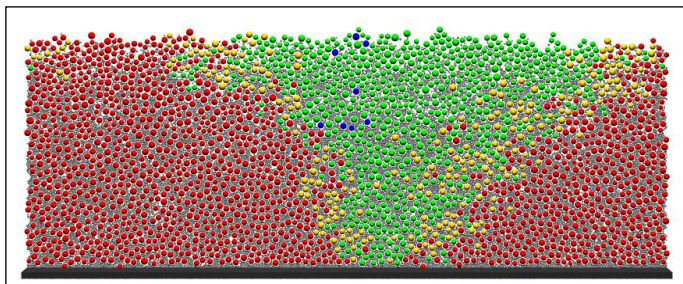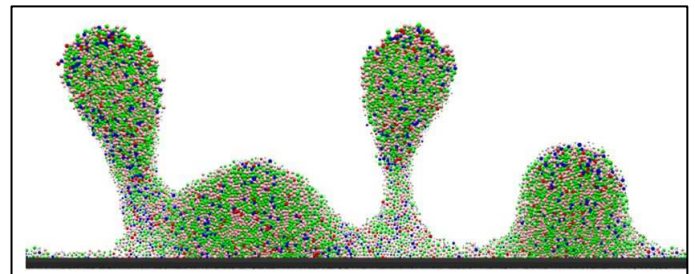
Course Credits: 5 ECTS
Application Deadline: May 1, 2009
(Extended from April 15, 2009)
Course Fee: €200 for PhD students, €1000 for non-PhD (fee includes lunch and coffee/tea breaks)

For registration details and for further information, please visit the link "IbM PhD Course 2009" at http://emerg.env.dtu.dk.

DTU Environment
Department of Environmental Engineering

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