

2nd annual PhD workshop on enzymatic hydrolysis of insoluble substrates

A biophysical approach to Mechanisms, Models and Applications

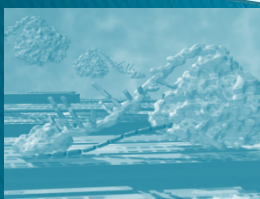
The Workshop (October 26th - 27th 2010)

The main focus of the workshop will be on biophysical aspects within enzymatic hydrolysis of insoluble substrates and its industrial applications. A particular focus is directed towards hydrolysis of complex polysaccharide substrates in connection to second generation bio-ethanol production. The purpose of the workshop is to share knowledge and motivate international cross-institutional collaborations, and is mainly directed towards PhD students and post docs within the field of biophysics and enzyme technology.

The workshop includes lectures from leading international scientists and PhD student poster presentations. See Page 2 for a detailed description of the program.

Time	Program: Day One
09:45 – 10:00	Introduction: Peter Westh
10:00 – 11:00	Guido Sacchi, Lund University, Sweden.
11:00 – 11:15	Break
11:15 – 12:15	Tina Jeoh, University of California, USA.
12:15 – 13:00	Lunch
13:00 – 13:45	Walk in the forest
13:45 – 14:45	Peter Westh, Roskilde University, Denmark.
14:45 – 15:45	Poster session*
15:45 – 16:45	Anne Meyer, DTU, Denmark.
16:45 – 17:45	Andreas Bommarius, Georgia Tech, Atlanta, USA.
17:45 – 18:00	Break
18:00 – 19:00	Christina Bohlin, Leigh Murphy, Roskilde University, Denmark.
19:30 –	Dinner + Informal Poster Session

Time	Program: Day Two
09:00 – 10:00	Breakfast
10:00 – 11:00	Michael Selig, NREL, Colorado, USA.
11:00 – 11:15	Break
11:15 – 12:15	Claus Fuglsang, Novozymes, Davis, California, USA.
12:15 – 13:30	Lunch
13:30 – 14:30	Pritt Väljamäe, University of Tartu, Estonia.
14:30 – 14:45	Break
14:45 – 15:45	Svein Horn, Norwegian University of Life Sciences, Norway.
15:45 – 16:00	Closing remarks: Claus Felby



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* 1.5 ECTS for PhD students.
Please prepare a poster of your work.

The conference is arranged by the Institute for Science, Systems and Models, Roskilde University and the Faculty of Life Sciences Copenhagen University and is free of charge for PhD students, including food and accommodation, sponsored by the School of Molecular Biophysics (SDU). A registration fee of 1000 Dkk is required for non-students (MSc, PhD, and post docs are considered students). To sign up for the workshop and for further information please contact Søren Nymand Olsen (sno@ruc.dk).

Deadline for registration is October 1st.

Location: Sømestationen, Dragerup Skovvej 10, 4300 Holbæk. <http://www.soeminationen.dk/>

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The Program

Speaker(s)	Title
Guido Sacchi	Pretreatment of biomass for production of fuels and chemicals
Tina Jeoh	Molecular-scale investigations of cellulose hydrolysis by cellulases
Peter Westh	A kinetic model for the burst phase for processive cellulase
Anne Meyer	Design of "minimal" enzyme treatments for cellulosic biomass processing
Andreas Bommarius	Slowdown of cellulose hydrolysis at high conversion: the role of crystallinity and jamming
Christina Bohlin, Leigh Murphy	Calorimetry provides detailed insight into the kinetics of beta-glucosidases Calorimetric studies on the kinetics of endoglucanases
Michael Selig	Milliliter scale substrate and enzyme specific saccharification studies: Investigating the detrimental effects of high solids conditions on the enzymatic hydrolysis of cellulose and lignocellulose
Claus Fuglsang	Cellulosic ethanol from Novozymes perspective
Pritt Våljamäe	Processivity of cellulases
Svein Horn	Saccharification of recalcitrant biomass - enzyme technology, pretreatment and process development

We look very much forward to an informal workshop atmosphere, lively debate of ideas and some good opportunities for future collaboration.