



Greenchem symposium

Industrial biotechnology – creating a paradigm shift for the production of chemicals

8 October 2008

S:t Gertrud Conference, Malmö, Sweden

PRELIMINARY PROGRAMME

FUNDED BY
MISTRA

SCOPE OF THE SYMPOSIUM

Industrial biotechnology is foreseen to provide environment-friendly alternative means for production of energy, chemicals and materials. The possibility to engineer metabolic pathways in microorganisms for production of desired chemicals, and to access and design biocatalysts with desired specificity, catalytic efficiency and stability from the natural biodiversity, and further evolution in laboratory has made biotechnology a very powerful tool for chemical production. So far, developments in the area have been limited to high value products. To make the technology generally applicable and competitive, some issues related to biocatalyst development, cofactor-dependent processes, and process engineering need to be solved.

Europe is a world leader in enzymes production and has a strong tradition in enzyme technology for synthesis of high-value chemicals. A number of centers of excellence related to industrial biotechnology at different European universities have been established and also some industries have taken a lead in commercialising products based on biotech routes.

The aim of this symposium is to obtain a view of the current status of the developments at some of these leading organisations in Europe concerning industrial biotechnology for production of speciality and fine chemicals, the driving force(s) for the chemical industry to adopt biotech based processes, methods for knowledge generation, and the bottlenecks in the large scale implementation of biotechnology in the industry.

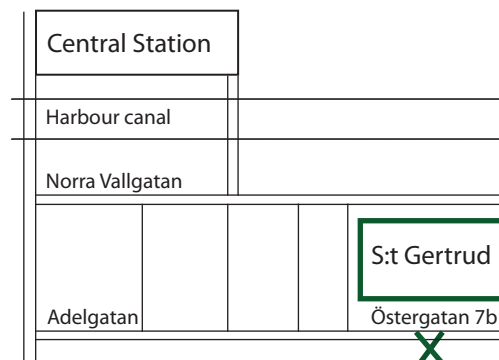
LOCATION & ACCOMMODATION

The symposium will be held in Malmö in the very south of Sweden. The venue will be **S:t Gertrud Conference**, with a unique atmosphere dating back from the 16th century, located just 5 minutes walk from Malmö Central Station. If you plan to travel to Malmö by plane, you have two alternatives, Malmö Sturup Airport, with bus transfer to Malmö C (40 min.), or Copenhagen Airport, with train transfer on the Öresund bridge, approximately 20 min. to Malmö C. If necessary Malmö City Tourist Information can be contacted for help with accommodation in Malmö.

Addresses:

S:t Gertrud Conference
Östergatan 7b, Malmö
www.sanktgertrud.se

Malmö City Tourist Information
phone: +46 40 34 12 00
e-mail: [malmo.turism@malmo.se](mailto:malmö.turism@malmo.se)



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SCIENTIFIC PROGRAMME

- 11.00 Registration
- 11.30 **Welcome address and Greenchem research**
Prof. Rajni Hatti-Kaul, Center for Chemistry & Chemical Engineering Lund University,
Lund, Sweden
(In Salmson, ground floor)
- 12.00 Lunch is served at S:t Gertrud Restaurant
- 13.00-13.40 **Developing novel biocatalysts via industrial-academic collaborations**
Prof. Nicholas Turner, Center of Excellence. Manchester, UK
- 13.40-14.20 **Developing novel biocatalysts via industrial-academic collaborations**
Dr. Daniel Mink, DSM, Delft, The Netherlands
- 14.20-14.50 Coffee Break
- 14.50-15.30 **SymBio - Boosting the use of biotechnology across industry sectors in Finland**
Tanja Dowe, Innomedica, Helsinki, Finland
- 15.30-16.10 **Proteine Engineering of *Candida antarctica* Lipase B for new substrate and reaction specificities**
Prof. Karl Hult, Royal Institute of Technology, Stockholm, Sweden
- 16.10-16.20 Short Break
- 16.20-17.00 **Scaling up of biocatalytic transaminations - challenges and perspectives**
Dr. Ulf Sjöstrand, Cambrex, Karlskoga, Sweden
- 17.00-17.40 **Scale-up of biocatalytic processes**
Prof. John Woodley, Technical University of Denmark (DTU),
Lyngby, Denmark
- 17.40-18.00 Panel discussion
- 18.00 End of symposium

REGISTRATION

Please register participation in the symposium by e-mail to anna.rosenquist@biotek.lu.se, no later than 22 september 2008 mentioning your address, telephone number(s) and e-mail address. Since the number of participants will be limited, those interested in attending the symposium are kindly asked to register early. Please also indicate special food requirements.

SYMPOSIUM FEE

The symposium fee is 500 SEK (€52), which covers admission to the symposium, lunch and refreshments. Payments must be done by 22 September 2008. No refunds will be made. When paying, following information (reference text) must be included: "CODE10771634002 + your name + Greenchem".

Payment from Sweden

PlusGiro Account: 1 56 50-5

Payment from other countries within the European Union

SWIFT code: NDEASESS

IBAN: SE50 9500 0099 6034 0015 6505

Address: PlusGiro Bank, SE-105 06 STOCKHOLM, Sweden

Most welcome!