

CONSISTENT BIOPROCESS DEVELOPMENT

Platform Technologies for Automated
Bioprocess Development

Status Seminar

February 28, 2013
13:00 - 19:00

Technische Universität Berlin

**AUTO
BIO**



BioSilta

B·R·A·I·N

PreSens
PRECISION SENSING



GEFÖRDERT VOM
Bundesministerium
für Bildung
und Forschung

infoteam
software AG

BETREUT VOM

PTKA
Projekträger Karlsruhe
Karlsruher Institut für Technologie

ORGANO BALANCE

organisiert von

unicat **IGE**

Institut für Biotechnologie
Technische Universität Berlin
Bioverfahrenstechnik

Platform Technologies for Automated Bioprocess Development

PROGRAMME February 28, 2013

13:00 – 13:20	Adress of welcome and introduction Peter Neubauer <i>Chair of Bioprocess Engineering</i> <i>Technische Universität Berlin, Germany</i>	15:20 – 16:00	Coffee break
13:20 – 13:50	Growth systems with controlled glucose release at microliter scale Antje Neubauer <i>BioSilta Europe GmbH, Berlin, Germany</i>	16:00 -16:30	Screening approaches for the discovery of new biocatalysts Daniel Meyer <i>B.R.A.I.N. AG, Zwingenberg, Germany</i>
13:50 – 14:20	Non-invasive sensing of oxygen and pH for bioprocess development Gernot T. John <i>PreSens Precision Sensing GmbH, Regensburg, Germany</i>	16:30 – 17:00	Model-based optimization and control Rudibert King <i>Chair of Measurement and Control</i> <i>Technische Universität Berlin, Germany</i>
14:20 – 14:50	Screening microbial libraries for industrial applications Andreas Raab <i>Organobalance GmbH, Berlin, Germany</i>	17:00 – 17:30	iLAB – A software platform for continuous bioprocess development from laboratory to production scale Birgit Stehlik <i>Infoteam Software AG, Bubenreuth, Germany</i>
14:50 – 15:20	Automation of microbial cultivations at μ L scale Andreas Knepper <i>Chair of Bioprocess Engineering</i> <i>Technische Universität Berlin</i>	17:30 – 19:00	Get together

Platform Technologies for Automated Bioprocess Development

The AutoBio joint research project (grant number FKZ 02PJ1150) is funded by the German Federal Ministry of Education and Research (BMBF, Berlin, Germany) during the following three years. Being supervised by the Project Management Agency Karlsruhe (PTKA, Karlsruhe, Germany) it has a total volume of 3.7 million Euros and is part of the future program “research for tomorrow’s production”. After inspection of the 114 project plans submitted only 13 were advised for funding.

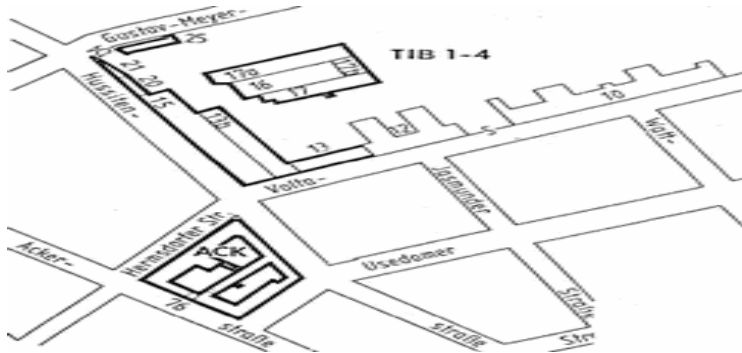
The Chairs of Bioprocess Engineering and of Measurement and Control both of the Technische Universität Berlin develop in close relation with the five industrial partners within the consortium, namely BioSilta Europe GmbH (Berlin, Germany), BRAIN AG (Zwingenberg, Germany), infoteam Software AG (Bubenreuth, Germany), Organobalance GmbH (Berlin, Germany) and PreSens Precision Sensing GmbH (Regensburg, Germany), methods and strategies to significantly shorten development times by interdisciplinary procedures between biotechnology, process and electrical engineering as well as information technology. While reducing the development times due to a consistent and strategic procedure, the comparably high costs and risks of investment should also be reduced significantly.

Current and future activities will focus on the development and implementation of miniaturized and automated modules as devices of the new technology platform. The latest technology will be presented at this status seminar.



GENERAL INFORMATION

DIRECTIONS



ON-SITE VISIT:

*Technische Universität Berlin, Germany
Department of Biotechnology
Chair of Bioprocess Engineering
Ackerstrasse 71 – 76, 13355 Berlin
Meeting point: entrance A, 2nd floor
Room 268
Time: 10 A.M.*

VENUE:

*Technische Universität Berlin, Germany
Department of Chemistry
Straße des 17. Juni 115
Room C130*

CONTACT:

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