

 **Institut für Biotechnologie**
Technische Universität Berlin
Bioverfahrenstechnik



IfGB
Institut für
Gärungsgewerbe
und Biotechnologie
zu Berlin

5th BioProScale Symposium

20 TO 22 MARCH 2018, BERLIN, GERMANY

Three-day symposium about industrial scale bioprocess intensification
from process development to large-scale understanding

Innovative scale up and scale down for bioprocess intensification

- + Industrial-scale bioprocess operation
- + Process analytical technologies (PAT) for understanding bioprocess scale up
- + Bioprocess development and intensification
- + Single use processes
- + Scaling of bioprocesses for the circular economy
- + Microsensors for bioprocesses



www.bioproscale-conference.org



VENUE: LANGENBECK-VIRCHOW-HAUS, LUISENSTR. 58/59, 10117 BERLIN, GERMANY

Innovative scale up and scale down for bioprocess intensification

■ Organisers

The 5th BioProScale Symposium is jointly organised by the Technische Universität Berlin, Chair of Bioprocess Technology, and the Institute for Gaerungsgewerbe und Biotechnologie zu Berlin (IfGB).**

■ Conference days

20 to 23 March 2018 (Tue - Thu)

■ Location

Langenbeck-Virchow-Haus
Luisenstr. 58/59
10117 Berlin (Mitte), Germany (to be confirmed)
www.langenbeck-virchow-haus.de

■ Language

Congress language is English.
No translation will be provided.

■ Target groups

Producers of biogas and enzymes, antibiotic production, bioprocess development, pharmaceutical bioprocesses, brewery processes, providers for sensor and software tools – experts from research & development and industrial practice

■ Contact

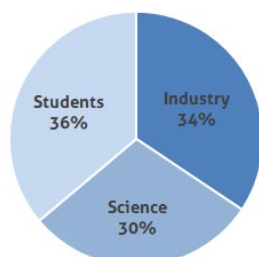
Prof. Dr. Peter Neubauer
TU Berlin – Department of Bioprocess Technology
Phone +49 30 314 72573 /
peter.neubauer@tu-berlin.de
or IfGB Berlin, Olaf Hendel, hendel@vlb-berlin.org

■ Attendance fee

Participants from Industry: 900 € incl. VAT
Participants from Scientific institutions: 500 € incl. VAT
PhD Student ticket: 250 € incl. VAT
BSc/MSc student ticket: 50 € incl. VAT
Conference Dinner: 65 € incl. VAT

Delegate profile

BioProScale
Symposium 2016
(total attendance
230 delegates from
22 countries)



■ Topics

Industrial-scale bioprocess operation

Manufacturing at large scale from process to product, modelling of large scale processes, mixing and reactor characterization, scaleability of operations, process robustness and repeatability, process monitoring and advanced control, integrated upstream and downstream operations, population heterogeneity.

Process analytical technologies (PAT) for understanding bioprocess scale up

Multiparameter analysis, non-invasive sensors, single-cell based monitoring, soft sensors, fault identification and diagnosis, multiposition measurements, mechanistic modelling and scale effects.

Bioprocess development and intensification

Automated screenings for biomolecules and bioprocess development, computer aided operations, optimal experimental design, miniaturisation of bioprocesses, operational space characterisation, evolutionary strategies for strains and processes.

Single use processes

Reactor types from μl to m^3 , sensors for single use processes, scalability, sustainability, continuous processing, microbial and niche applications.

Scaling of bioprocesses for the circular economy

Waste streams to value-added products, pretreatment, feed-stock flexibility, scale up/down of biorefinery concepts, closed carbon cycles, smart bioproduction grids.

Microsensors for bioprocesses

Miniaturisation through microelectronics, physical sensors, biosensors, intelligent microtiter plates, co-integration of microfluidics, lab-on-chip systems.

■ Scientific Advisory Board

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** IfGB is a brand of the Versuchs- und Lehranstalt für Brauerei in Berlin (VLB) e.V.

Call for Papers & Registration at

www.bioproscale-conference.org

4th BioProScale Symposium 2016

3rd BioProScale Symposium 2014

