

# smartLAB – the vision of the future

In Hannover vision becomes reality. The realization of the laboratory of the future requires innovative thinkers and development specialists from research and industry. Scientists and business enterprises have therefore joined forces to stage the smartLAB project and showcase a fully functional laboratory of tomorrow.

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Deutsche Messe

Deutsche Messe  
Messegelände  
30521 Hannover  
Germany

Tel. +49 511 89-0  
Fax +49 511 89-32626  
info@messe.de  
www.messe.de

### Your personal contacts

**Susan Canisius**  
Tel. +49 511 89-31152  
susan.canisius@messe.de

**Carola Triebisch**  
Tel. +49 511 89-31139  
carola.triebisch@messe.de

# smartLAB – the intelligent lab of the future

at LABVOLUTION 2017

**16 – 18 May 2017**  
**Hannover • Germany**

labvolution.de

Visit us!  
Hall 20/C51

**New date:  
May 2017**



Deutsche Messe



# smartLAB conference program

## Tuesday, 16 May 2017

10.00 – 10.15	<b>smartLAB Live Show</b> Host: Sebastian Texter Welcoming address: Dr. Andreas Gruchow, Board Deutsche Messe
10.15 – 10.40	<b>smartLAB – the intelligent lab of the future</b> Dr. Sascha Beutel/Christoph Busse, Institut für Techn. Chemie, Uni Hannover
10.40 – 10.50	<b>Use case: Bioreactor-Inoculation</b> Semra Alemdar, Institut für Techn. Chemie, Uni Hannover
10.50 – 11.20	<b>smartLAB hands on</b>
11.20 – 11.40	<b>Workflow Implementation in Lab Balances and next Level Connectivity</b> Steffen Gloth, Sartorius Lab Instruments GmbH & Co KG, Produktmanager Premiumwaagen und Softwarelösungen
11.40 – 12.00	<b>Ease of Use, Flexibility and Connectivity are the Drivers in the Digitization of Laboratory Processes and Data.</b> Dr. Simon Bungers, labfolder GmbH, Geschäftsführer
12.00 – 13.00	<b>Lunch break</b>
13.00 – 13.25	<b>smartLAB – the intelligent lab of the future</b> Dr. Sascha Beutel/Christoph Busse, Institut für Techn. Chemie, Uni Hannover
13.25 – 13.35	<b>Use case: Phosphate-Soil Analysis</b> Semra Alemdar, Institut für Techn. Chemie, Uni Hannover
13.35 – 14.00	<b>smartLAB hands on</b>
14.00 – 14.20	<b>Modern sample preparation using gravimetric dosage and their advantages in respect to volumetric dilution</b> Mathis Kuchejda, Schmidt u. Haensch GmbH & Co KG, Geschäftsführer
14.20 – 14.40	<b>A modern lab: unthinkable without mobile data!</b> Martin Nehls, iTIZZIMO, Geschäftsführer
14.40 – 15.00	<b>smartLAB hands on</b>
15.00 – 15.25	<b>smartLAB – the intelligent lab of the future</b> Dr. Sascha Beutel/Christoph Busse, Institut für Techn. Chemie, Uni Hannover
15.25 – 15.35	<b>Use case: Food Analytics: GMO-Test</b> Semra Alemdar, Institut für Techn. Chemie, Uni Hannover
15.35 – 16.00	<b>smartLAB hands on</b>
16.00 – 16.20	<b>PCR analysis in food &amp; beverage</b> Dr. Tanja Musiol, Eppendorf AG, Global Project Leader Portfolio Management Marketing
16.20 – 16.40	<b>LabOS – Internet of Things im Labor</b> Axel Wechsler, Fraunhofer IPA, Gruppenleiter Labor-IT
16.40 – 17.00	<b>Smart products – a human centered perspective on digitalization</b> Adrian Reininger, Herr M, Geschäftsführer

## Wednesday, 17 May 2017

10.00 – 10.25	<b>smartLAB – the intelligent lab of the future</b> Dr. Sascha Beutel/Christoph Busse, Institut für Techn. Chemie, Uni Hannover
10.25 – 10.35	<b>Use case: Bioreactor-Inoculation</b> Semra Alemdar, Institut für Techn. Chemie, Uni Hannover
10.35 – 11.00	<b>smartLAB hands on</b>
11.00 – 11.20	<b>Non-invasive measurement of essential parameters in laboratory glassware</b> Dr. Gernot T. John, PreSens Precision Sensing GmbH, Director Marketing & Innovation
11.20 – 11.40	<b>Labs Go Digital with New Business Models</b> Dr. Moritz Gomm, Zühlke Engineering GmbH, Business Development Manager
11.40 – 12.00	tba
12.00 – 13.00	<b>Lunch break</b>
13.00 – 13.25	<b>smartLAB – the intelligent lab of the future</b> Dr. Sascha Beutel/Christoph Busse, Institut für Techn. Chemie, Uni Hannover
13.25 – 13.35	<b>Use case: Phosphate-Soil Analysis</b> Semra Alemdar, Institut für Techn. Chemie, Uni Hannover
13.35 – 14.00	<b>smartLAB hands on</b>
14.00 – 14.20	<b>Lorescheit (robotics manufacturer)</b> tba
14.20 – 14.40	<b>Smart Lighting</b> Prof. Dr. Dominik Rabus, LUPYLED GmbH, CTO & Co-Founder
14.40 – 15.00	<b>smartLAB hands on</b>
15.00 – 15.25	<b>smartLAB – the intelligent lab of the future</b> Dr. Sascha Beutel/Christoph Busse, Institut für Techn. Chemie, Uni Hannover
15.25 – 15.35	<b>Use case: Food Analytics: GMO-Test</b> Semra Alemdar, Institut für Techn. Chemie, Uni Hannover
15.35 – 15.45	<b>smartLAB hands on</b>
15.45 – 16.15	<b>Panel discussion: “Digital Interconnectivity”</b> <b>Panel participants:</b> Dr. Simon Bungers (labfolder GmbH, Geschäftsführer), Martin Nehls (iTIZZIMO, Geschäftsführer), Axel Wechsler (Fraunhofer IPA, Gruppenleiter Labot-IT), Thomas Schink (Sartorius Lab Instruments GmbH&Co.KG, Manager Embedded Computing), Dr. Jan-Gerd Frerichs (Eppendorf AG, Director Information Integration) Host: Sebastian Texter
16.15 – 16.30	<b>smartLAB hands on</b>
16.30 – 17.00	<b>smartLAB Reception</b> Welcoming address: Dr. Andreas Gruchow, Board Deutsche Messe <b>Keynote:</b> Dr. Andreas Hochberger, Eppendorf AG, Vice President Portfoliomanagement Marketing <b>Special:</b> use case: Beer Colour Determination
17.00 – 18.30	<b>Get Together</b>

## Thursday, 18 May 2017

10.00 – 10.25	<b>smartLAB – the intelligent lab of the future</b> Dr. Sascha Beutel/Christoph Busse, Institut für Techn. Chemie, Uni Hannover
10.25 – 10.35	<b>Use case: Bioreactor-Inoculation</b> Semra Alemdar, Institut für Techn. Chemie, Uni Hannover
10.35 – 11.00	<b>smartLAB hands on</b>
11.00 – 11.20	<b>Next Level Cultivation Training</b> Sönke Rosemann, Sartorius Stedim Biotech GmbH, Produktmanager Fermentation
11.20 – 12.40	<b>Ease of Use, Flexibility and Connectivity are the Drivers in the Digitization of Laboratory Processes and Data.</b> Dr. Simon Bungers, labfolder GmbH, Geschäftsführer
11.40 – 12.00	<b>Labor 4.0 – Labore als Datenfabriken</b> Andreas Traube, Fraunhofer IPA, Group Manager Automated Cell and Tissue Culture
12.00 – 13.00	<b>Lunch break</b>
13.00 – 13.20	<b>smartLAB – the intelligent lab of the future</b> Dr. Sascha Beutel/Christoph Busse, Institut für Techn. Chemie, Uni Hannover
13.20 – 13.40	<b>Use case: Phosphate-Soil Analysis</b> Semra Alemdar, Institut für Techn. Chemie, Uni Hannover
13.40 – 14.00	<b>smartLAB hands on</b>
14.00 – 14.20	<b>Consumables – The Link in your Workflow</b> Dr. Nils Gerke, Eppendorf AG, Global Product Manager für Consumables
14.20 – 14.40	<b>Smartphone-assisted analytical applications</b> Dr. Johanna Gabriela Walter, Institut für Techn. Chemie, Uni Hannover
14.40 – 15.00	<b>SmartLAB cooperation network – Promoting innovations for the Lab 4.0</b> Markus Sebeck, EurA AG / SmartLAB-Netzwerk
15.00 – 15.10	<b>Discussion and closing remarks</b> Host: Sebastian Texter

Subject to change. Positions as of February 2017.

The presentation charts will be in English, the presentations themselves either in German or English.