

# ETFA 2022

27<sup>th</sup> INTERNATIONAL CONFERENCE  
ON EMERGING TECHNOLOGIES  
AND FACTORY AUTOMATION

STUTTGART, GERMANY  
SEPTEMBER 6<sup>th</sup>-9<sup>th</sup> 2022

## Call for Participants Future of Process Automation in BioPharma

### Organized and Co-Chaired by

Lucas Vogt<sup>1</sup>, Anselm Klose<sup>1</sup>  
<sup>1</sup> Process-to-Order Lab Dresden

## Workshop: September 6, 2022

### ❖ TOPICS:

- ❖ Changing requirements from customers and product users
- ❖ Digital plants in the biopharma industry
- ❖ Leveraging cloud technologies to improve pharmaceutical production
- ❖ Modular and mobile automation approaches for bio facilities
- ❖ Conducive design for process engineering and plant operation
- ❖ User guided decision making in the development and manufacturing of biopharma products

❖ **FOCUS:** The economic effects of the Covid-19 pandemic highlighted the pressure for the pharmaceutical industry to become faster, more flexible, and increasingly cost competitive. In addition, there is a trend towards personalized medicine in form of cell and gene therapies, which allow to tailor products to the specific needs of patients, but also pose a significant challenge regarding the production of such medicine. At the same time the continuing rise of the worldwide population suggests that in the future an increased production volume for pharmaceutical products will be required. All these developments are manifesting in fast changing requirements, which have to be met with new technical solutions by the pharmaceutical industry in order to stay competitive.

❖ **AIM:** The biopharma industry imposes a unique set of requirements and challenges for the automation of its processes, whose emphases differ significantly from other industries. Consequently, this workshop aims to create a discussion platform for the industry specific needs regarding automation technologies. The talks aim to interconnect process automation, factory automation and operator centric design for biopharma from an industry point of view.

❖ **WORKSHOP FORMAT:** This workshop is based on invited presentations and will be conducted as half day event. The workshop offers the attendees an overview over important trends in the field of process automation within the biopharma industry. The topics of the workshop will be covered from multiple angles by experts from both industry and academia, giving participants a comprehensive overview of the topics.

### ❖ AGENDA:

#### Presentation

1. Introduction to the BioPharma World from an Owner/Operator View
2. Outlook Digital Plants in Biopharma
3. The Milestones of the Cloud Journey in Roche Technical Development (PTD) - a Business View
4. Industrial Modular and Mobile Automation for a Bio Facility of the Future
5. User Guided Decision Making: The Future of Biologics Development and Manufacturing
6. Conducive Design for Process Engineering and Plant Operation

#### Presenter

**Uwe Schwarzat, Boehringer  
Ingelheim Biopharmaceuticals  
GmbH**

**Michel Claes, Siemens AG**

**Andreas Steinle, Roche AG**

**Frank Maurer, Boehringer  
Ingelheim Biopharmaceuticals  
GmbH**

**Dr. David Pollard, Sartorius AG**

**Florian Pelzer, Technical  
University Dresden**