

# The Digital Robot Pharma Fab

## Workshop Overview

In this one-day workshop, the world of Robots, Artificial Intelligence (AI) and overall digitalization will be presented. Drawing references from other industries, the potential for pharma applications will be demonstrated while introducing and transparently assessing risks and advantages. This includes a regulatory viewpoint.

The attendees shall receive insights into

- To what extent are these technologies feasible today and ready to be used?
- What is possible today with respect to pharma applications?
- Where are the limitations, if any, and what are they?
- What shall be considered when starting a project today?
- The workshop includes lectures as well as hands-on training by mock ups and live activities presented in the exhibition hall.

This workshop serves as an introduction and includes some hands-on learning opportunities while focusing on personal exchange amongst all attendees and speakers. As the world continues to move and change fast, the aim is to offer a continuation of this workshop and present novel developments and solutions on an ongoing basis.

## Workshop Leader



**Martin Düblin**, *One One Eleven*

Martin Düblin is a mechanical and process engineer and highly experienced in the field of the life science industry, infrastructure and health care community. For more than 25 years, he has been involved in many major strategic projects in Europe, North and South America, North Africa and Asia for laboratories, pilot scale installations, production, office buildings, hospitals, education, warehouse, energy / utilities and waste management. Several products and brands have been launched under his responsibility. In his role as specialist for various life science companies, Martin has provided support in all kinds of technical «revolutions» such as full digital production with the help of robotics and AI, delivering high quality products, preparing the disruptive transition and ensuring global competitiveness.

**Monday, 24 June 2019**

**10:00 – 17:00**

**10:00 Welcome and Introduction**

Falk Klar, *PDA Europe*  
Martin Düblin, *One One Eleven*

**Robotics**

**Martin Düblin, *One One Eleven***

The entire operations of a typical pharma fab will be grouped into the respective business areas: External logistics, warehouse, internal logistics, dispensing, compounding, filling, sterilizing, inspection, labelling, labs, infrastructure, QA, QC, FM, management, etc. The needs will be summarized and the potentials for implementing new technologies addressed.

**10:30 Robot World**

- What do we have to understand about robots?
- What capabilities do robots have today?
- What are the next generations of robots?
- How to get to a robust and reliable robot system?

Ueli Schläpfer,  
*Helbling Technik*

**11:15 Coffee Break**

**11:45 Logistics**

- How does a traditional logistics organization operate today?
- What alternatives are available already?
- What might logistics look like in the near future?
- In what way may a transition happen?

Eric Gastel,  
*Interlog Management*

**12:30 Robots in Pharma Production**

- What are possible applications?
- Where are robots already in use?
- What are the benefits?
- Do we just talk robot or is there more potential in using them?

Martin Düblin,  
*One One Eleven*

**13:15 Lunch Break & Exhibition**

There will be machinery and mock-ups presented in the exhibition area for gaining hands-on experience.

**Manufacturing**

Transitioning from today's business into industry X.Y. Does this mean, there are robots at every possible position or is there more to it? There is a future under preparation which leads to a completely new world. Starting with the first business idea, executing a project, bringing it into operation, running the manufacturing, influencing all internal operational organizations, across the whole life cycle. What are the advantages of and with these future factories? What dimensions do we have to consider and what new business models are possible?

**14:15 Future Manufacturing**

- Is it only continuous manufacturing?
- Are there other manufacturing opportunities possible?
- What does this mean to the Pharma business?
- What might be the consequences at the longer end?

Robert Roennback,  
*Ferring*

**15:30 Coffee Break & Interactive Hands-On Exhibition Continuation from Lunch Break**

**15:45 Lab Automation**

- Is automation only possible for manufacturing?
- What solutions are available today?
- What does the market consider and what developments have been started?
- What might a lab look like in future?

Oskari Vinko,  
*UniteLabs*

**16:15 Pharma Business Transition**

- In what way do robots, AI and full digitalization influence the business?
- How do we have to prepare ourselves for the upcoming steps?
- Are we ready to do so?
- How might a typical pharma fab be organized and what does this mean to the pharma business?

Valerio di Giovanni,  
*Altran*

**17:00 Summary & Conclusion of Workshop**

Martin Düblin, *One One Eleven*

**Possibility for Additional Exchange**

Please feel free and use the opportunity to gain further hands-on experience with the installations in the exhibition area.

All participants