



**BOSCH**  
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International Expert Conference

# Reality Check on Continuous Manufacturing

Dear Sir or Madam,

We cordially invite you to join our international expert conference on continuous manufacturing. With this seminar, we would like to contribute to a realistic future of continuous manufacturing. The target is to analyze the technical, process, regulatory and business opportunities as well as the challenges in existing OSD plants and share new insights on how to master these.

Experienced users will present their knowledge and experience within their continuous manufacturing plant. Bosch Hüttlin will take the opportunity to present the Xelum platform which is based on a different philosophy regarding: R&D aspects, process robustness, traceability, simplification, cleanability, containment and the control strategy of continuous lines.

The meeting also includes a visit to the Bosch Hüttlin plant in Schopfheim, where the participants will see live demonstrations of continuous lines – showcasing solutions from R&D to production.

We hope that we can count on your attendance. Our organizational team will be happy to assist you with hotel accommodation, transfers or any additional questions you might have.

We are looking forward to welcoming you in Lörrach and Schopfheim.

Sincerely yours,  
Martin Gross  
General Manager, Hüttlin GmbH



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OCTOBER 2019

## INFORMATION

### LANGUAGE

- ▶ English

### CONFERENCE FEE

- ▶ 290 Euro (excl. VAT)  
covering seminar transfers, catering, venue costs and accommodation for 1 night

### VENUE

- ▶ Steigenberger Hotel,  
Lörrach/Germany

### TARGET GROUP

- ▶ Company executives, development, engineering and production professionals
- ▶ Experts, who already practice continuous processing
- ▶ Academics specialized in the topic

## CONTACT

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# AGENDA

## OCT 16, 2019: REALITY CHECK ON CONTINUOUS MANUFACTURING

- 11:30 – 13:00 **Registration & lunch**
- 13:00 – 13:15 **Welcome by Bosch Packaging management**
- 13:15 – 13:45 **Introduction and short historical review on the goals of CM**  
Moderator: Günter Körblein, Tetragon Consulting
- 13:45 – 14:30 **Formulation considerations in drug product continuous manufacturing**  
Gregory Connelly, Associate Director, Vertex (USA)
- 14:30 – 15:15 **Pfizer's "Continuous" Journey**  
Gunther Bechmann PhD, Product and Process Development, Pfizer Manufacturing Deutschland GmbH (Germany)
- 15:15 – 15:30 **Coffee break**
- 15:30 – 16:15 **Roche Mini Batch Blending Concept**  
Reto Maurer, Pharmaceutical R&D, F. Hoffmann-La Roche Ltd. (Switzerland)
- 16:15 – 17:00 **Xelum: An alternative way to overcome the challenges associated with CM today**  
Dr. Marc Michaelis, Pharmacist, Bosch Packaging Technology
- 17:00 – 17:30 **Break**
- 17:30 **Transfer**
- 18:00 **Social event & dinner**
- tbd **Transfer**

## OCT 17, 2019: LIVE DEMONSTRATIONS – CONTINUOUS R&D AND PRODUCTION

- 08:30 **Transfer to Bosch Packaging**
- 09:00 – 12:00 **Live demonstrations at 5 different stations:**  
The Xelum R&D system will be running small scale development batches. Afterwards, the process parameters will be transferred and commercial continuous production batches will be run on the Xelum production platform. Other demonstrations include continuous direct compression, continuous direct capsule filling and our ability to continuously coat pellets.
- 12:15 – 14:00 **Transfer to the hotel & lunch**
- 14:00 – 14:45 **Test results Xelum: Precision dosing, automated DoE, content uniformity, yield, property of granule**  
Dr. Marc Michaelis, Pharmacist, Bosch Packaging Technology
- 14:45 – 15:30 **Economic considerations when implementing CM**  
Michael Van den Bossche, SME CM, Bosch Packaging Technology
- 15:30 – 15:45 **Coffee break**
- 15:45 – 16:30 **Reality check & vision of CM**
- 16:30 – 17:00 **Feedback session and conclusion**  
Moderator: Günter Körblein, Tetragon Consulting



### Registration

Please mail us at [conti-world@bosch.com](mailto:conti-world@bosch.com), if you are interested in being part of this expert session. The number of participants is limited.