

DAY 1: CESPE INDUSTRY-FOCUSED SESSION

28 SEPTEMBER 2026

PAT IN PRACTICE: IMPLEMENTATION CHALLENGES, MEASURABLE IMPACT AND REAL OUTCOMES

- 09.00–09.10 **Opening speech**
Dr. William Dhooge – CESPE Platform Manager
- 09.10–09.35 **PAT in Full Scale Biomanufacturing – Implementation Experience and Challenges**
Dr. Jakob Christensen – Novo Nordisk Engineering
- 09.35–10.00 **PAT Is a Tool, Not a Goal: Lessons from Translating Raman Spectroscopy into Manufacturing**
Dr. Yannick Borguet – Takeda
- 10.00–10.25 **A Leading Role for PAT in Continuous Manufacturing**
Dr. Melanie Dumarey – AstraZeneca
- 10.25–10.50 **PAT Strategy to Master Continuous Process – Example for On-Line Vaccine Formulation**
Laurent Strodiot – GSK
- 10.50–11.20 **COFFEE BREAK**
- 11.20–11.45 **Turning Data into Decisions: The Road to an Integrated Control Strategy in Continuous Direct Compression**
Dr. Shana Van de Steene – Fette Compacting
- 11.45–12.10 **Beyond Method Replacement: Using PAT to Understand, Support and Improve Pharmaceutical Processes**
Olivier Van Der Ha – Ajinomoto Omnicem
- 12.10–12.35 **From Leaf to Product: Implementing PAT for Robust Downstream Processing in Plant-Based Biomanufacturing**
Dr. Jeroen Hofenk – SwiftPharma
- 12.35–13.30 **LUNCH BREAK**

13.30–16.30 EUPAT-CESPE HANDS-ON WORKSHOP

Interact directly with technology providers through hands-on demonstrations, live equipment showcases and real-world case studies.

16.30–18.30 AFTERNOON RECEPTION

Enjoy a drink at The Nucleus, offering the perfect opportunity to network with fellow participants and explore the technology exhibition.



DAY 2: EUPAT 13

29 SEPTEMBER 2026

09.00–09.15 **Welcome & Introductions**
Programme Committee

NEXT-GENERATION SENSORS, ADVANCED PAT TOOLS AND INNOVATIVE QBD STRATEGIES

09.15–09.55 **Terahertz Porosity Sensing for Disintegration Prediction**
Prof. Dr. Axel Zeitler – University of Cambridge, United Kingdom

09.55–10.35 **Control Strategies and Real-Time Release for Continuous Manufacturing: Case Studies**
Dr. Tom Van den Kerkhof – Johnson & Johnson Innovative Medicine, Belgium

10.35–10.50 **COFFEE BREAK**

10.50–11.30 **From PAT Signals to Process Decisions: Designing Closed-Loop Controls for Drug Substance Biopharma Manufacturing**
Jan-Sebastiaan Uyttersprot & Dr. Tuur Vandeputte – UCB, Belgium

11.30–11.45 **Robust API Quantification by Terahertz Frequency-Domain Spectroscopy Against Tablet Design Variation**
Dr. Kei Shimura – Hitachi High-Tech Corporation, Japan

11.45–12.00 **Performances of API fraction predictions with NIR-SRS and with Transmission FT-NIR: A Comparative Case Study**
Freddy Vandenbroucke – Pharma Technology SA, Belgium

12.00–12.15 **Blend monitoring of a Low-Dose Formulation in a Tablet Press Feed Frame Using Spatially Resolved Near-Infrared Spectroscopy**
Dr. Fabien Chauchard – Indatech Chauvin-Arnoux, France

12.15–12.30 **Navigate the Formulation Space: In-silico Formulation Screening for Digital QbD in Direct Compression**
Dr. Michael Ghijs – Elegant, Belgium

12.30–13.35 **LUNCH BREAK**



DAY 2: EUPAT 13

29 SEPTEMBER 2026

INTEGRATED AND AUTONOMOUS PHARMACEUTICAL PLATFORMS

- 13.35–14.15 **Continuous Direct Compression in Development of Dispersible Combination Tablet for HIV-positive Pediatric Patients**
Prof. Dr. Ossi Korhonen – School of Pharmacy, University of Eastern Finland
- 14.15–14.55 **Enabling Continuous Direct Compression of High Drug Loading Tablets Through an Integrated Particle Engineering Framework**
Dr. Jérôme Mantanus – UCB, Belgium
- 14.55–15.10 **Beyond the Surface: In-line NIR-HSI PAT for Monitoring of 3D-Printed Pharmaceutical Formulations**
Ivan Raguz – Research Center Pharmaceutical Engineering GmbH, Austria
- 15.10–15.25 **Automated screening of self-emulsifying drug delivery systems**
Martin Krov – University of Chemistry and Technology Prague, Czech Republic
- 15.25–15.40 **COFFEE BREAK**
- 15.40–16.20 **Accelerating Process Intensification: Advanced Control Strategies Powered by Real Time Bioreactor Analytics**
Amit Chandrakar – Cultzyme, Spain
- 16.20–16.35 **Milligram-Scale Adaptive Robotic Micro-Dosing System for Pharmaceutical Powders**
Muhammad Murtaza – CMAC, University of Strathclyde, UK
- 16.35–16.50 **Automated Spray Drying for Data-Rich Screening of Amorphous Solid Dispersion Design Spaces**
Vojtěch Klimša, University of Chemistry and Technology Prague, Czech Republic
- 16.50–17.05 **Control Strategy Considerations for the Continuous Manufacturing of Low-dose Oral Solid Dosage Formulations**
Dr. Cristina Ruiz Samblás – AstraZeneca, Sweden

18.00–21.30 NETWORKING DINNER

Enjoy a reception and three-course dinner in the historic Saint Peter's Abbey while networking with fellow conference attendees.

Doors open on Tuesday, 29 September 2026 from 18.00 h.



DAY 3: EUPAT 13

30 SEPTEMBER 2026

ARTIFICIAL INTELLIGENCE ACROSS THE PHARMACEUTICAL LIFECYCLE

- 9.05–9.45 **From Material, Process, and Product Knowledge to the AI Formulator**
Prof. Dr. Daniel Markl – CMAC, University of Strathclyde, Scotland
- 9.45–10.25 **Predictive Pharmaceutical Development and Process Intelligence through Low-Frequency Vibrational Spectroscopy**
Dr. Kārlis Bērziņš – University of Copenhagen, Denmark
- 10.25–10.40 **From Mechanistic Models to Explainable Multimodal AI for Real-Time Dissolution Profile Prediction**
Dr. Brigitta Nagy – Budapest University of Technology and Economics, Hungary
- 10.40–10.55 **COFFEE BREAK**
- 10.55–11.35 **The EU Quality Innovation Group Perspective on Modelling and AI in Pharmaceutical Process Development and Manufacturing**
Dr. Silvia Vogl – Quality Innovation Group, European Medicines Agency
- 11.35–11.50 **From Compression to Coating: FEM and DEM Simulations Supporting Process Understanding in Continuous Tablet Manufacturing**
Domenica Braile – Johnson & Johnson Innovative Medicine, Belgium
- 11.50–12.05 **Leveraging Bayesian Optimization Infused with Human Knowledge for Automatic Pharmaceutical Loss-in-Weight Feeder Tuning**
Dr. Ruben Waeytens – Fette Compacting, Belgium
- 12.05–12.20 **A Generative AI Approach to Inverse Design for Continuous Pharmaceutical Manufacturing**
Consuelo Del Pilar Vega Zambrano – University College London, UK
- 12.20–12.35 **Implementing Artificial Intelligence to Accelerate Process Development**
Dr. Charlotte Geleyn – Ghent University, Belgium

LUNCH BREAK – END OF CONFERENCE