



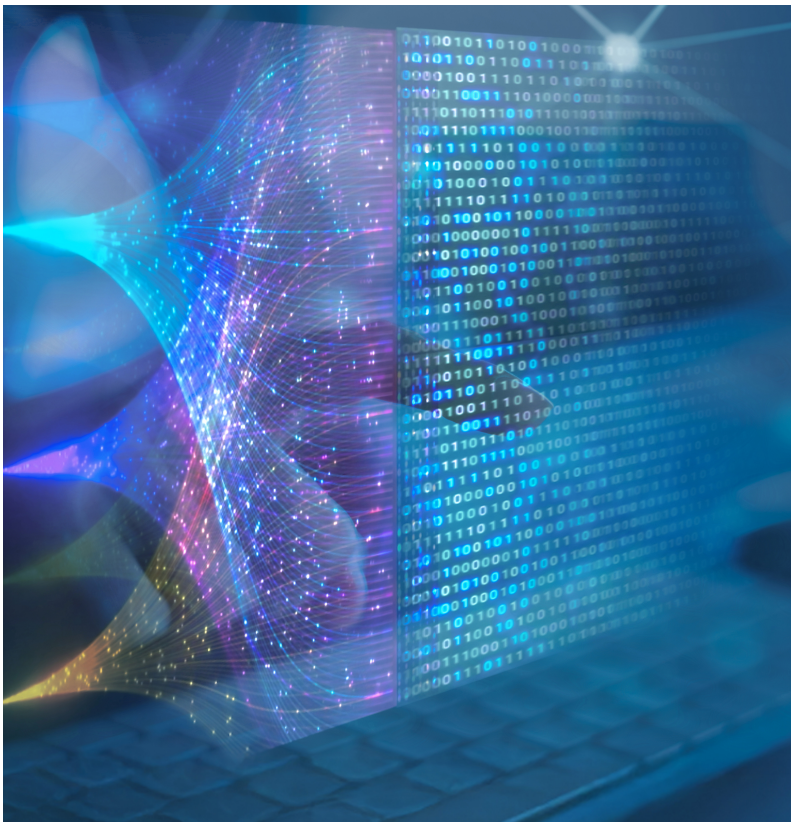
TTC PAT CONNECT 2026

CONNECTING MINDS. ENABLING INNOVATION

Shaping the Future of **PROCESS ANALYTICAL TECHNOLOGIES**

Kur- und Festspielhaus
Badenweiler (Germany)

10 - 11 March, 2026
(12 March, 2026 optional)



THE FUTURE OF PAT

Process Analytical Technology (PAT) goes beyond tools – it's a strategic approach that transforms pharma and biotech from reactive to predictive control, from static processes to adaptive systems, and from compliance to true quality by design.

TTC PAT Connect 2026 unites experts from industry, academia, and regulatory bodies to exchange ideas, build connections, and drive practical PAT implementation across sectors.

WHY YOU?

Whether you work in pharmaceutical production, quality assurance, process development, regulatory science, data analytics or equipment design – your perspective matters.

TTC PAT Connect 2026 is your opportunity to share ideas, explore new technologies and help shape the future of pharmaceutical manufacturing.

CONNECT. LEARN. APPLY.



SPEAKERS

Andrew Anderson	Asquard Consultancy, England
Carolina Gastone	Eigengran, Italy
Carsten Jasper	PTS Training GmbH, Germany
Dr. Ali Afnan	Step Change Pharma Inc., USA
Dr. Blerina Shkodra	leon-nanodrugs GmbH, Germany
Dr. Brad Swarbrick	KAX Group / Penrith, Australia
Dr. Christian Dubiella	Wacker Chemie AG, Germany
Dr. Holger Lutz	Bruker Optics GmbH&Co.KG, Germany
Dr. Leticia Lambert Angulo	Endress+Hauser, France
Dr. Luise Kaven	BASF SE, Germany
Christoph Lange	KIWI Lab, Berlin, Germany
Dr. Manuel Kuhs	Expo Process Analytics, Ireland
Dr. Matthias Balsam	Bayer AG, Germany
Dr. Moritz Anuschek	Novo Nordisk A/S, Denmark
Dr. Olivier Paquet-Durand	Glatt, Germany
Dr. Rut Besseling	InProcess-LSP, Netherlands
Dr. Shana Van de Steene	Fette Compacting, Belgium
Dr. Stainslav Kasakov	Thermo Fisher Scientific, Switzerland
Dr. Stephan Sacher	RCPE, Austria
Dr. Sven Borchert	Pharma Technology, Belgium
Dr. Eric Teboul	Horiba Ltd. , France
Jan Verelst	Siemens, Belgium
Martin Warman	Martin Warman Consultancy Ltd, England
Phil Doherty	Acuitis, Ireland
Prof. Dr. Johannes Khinast	TU Graz and CEO of RCPE, Austria
Prof. Dr. Kim Harry Esbensen	KHE Consulting, Denmark
Steve Hammond	Steve Hammond Consulting, USA
Thomas Ricour	PAT Industry France

MODERATION:

First day and Second day (OSD Track):

Dr. Thomas Tauchnitz	TAUTOMATION.consulting, Germany
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Second day (Bioprocessing):

Dr. Ali Afnan	STEP CHANGE PHARMA INC., USA
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TUESDAY, 10. MARCH 2026

08:00 Registration

09:00 Welcome and opening of the conference

09:10 **Process Analytical Technology:
a framework for innovation.**

A two decades review

Dr. Ali Afnan, Step Change Pharma, Inc., USA

10:00 Break 45 min

10:45 **Holistic PAT strategies for
granulation and drying**

Martin Warman,

Martin Warman Consultancy Ltd., England

11:30 **PAT: The critical success factor
of the sampling interface**

Dr. Kim Harry Esbensen,

KHE Consulting, Denmark

12:15 Walking Lunch in exhibition and posters

13:45 **Activation impulse: A pilot's perspective:
The importance of trust and
self-confidence**

Philip Keil,

Keynote Speaker and Pilot, Germany

14:30 **PAT at Bayer Pharma from process
development to production with
application examples**

Dr. Matthias Balsam, Bayer AG, Germany

15:15 Break 45 min

16:00 **What are new developments in PAT?**

Prof. Dr. Khinast,

TU Graz / RCPE GmbH, Austria

16:45 **AI agents in process analytics**

Dr. Luise Kaven, BASF SE, Germany

17:15 **AI in process analytics is it a hype
or a game changer?**

Panel Discussion

18:00 Freetime

20:00 Dinner at the Kurhaus, Badenweiler

WEDNESDAY, 11. MARCH 2026

Session on OSD (Oral Solid Dosage)

08:00 Registration

08:30 **Lean chemometric approaches to near infrared quantitative models in a tablet press feedframe**

Phil Doherty, Acuitis

Process Analytical Technologies, Ireland

09:00 **PAT road to realtime release**

Dr. Shana Van de Steene,

Fette Compacting, Belgium

09:30 **From silos to synergy:**

Building an integrated PAT ecosystem across the value chain

Thomas Ricour, PAT Industry, France

10:00 Break 45 min

10:45 **Application of real-time neurodynamic control strategies to tumble blending operations through PAT-W**

Process Analytical Technology

Carolina Gastone, Eigengran, Italy

11:15 **PAT - Process analytics in the manufacture of solid dosage forms (OSD): From innovative research to industrial reality**

Dr. Olivier Paquet-Durand,

Glatt Group, Germany

11:45 **Designing effective control strategies and digital twins using multivariate analysis tools**

Dr. Brad Swarbrick, KAX Group, Australia

12:15 Walking Lunch in exhibition and posters

13:45 **PAT tools for real-time monitoring of physical characteristics of oral solid dosage forms**

Dr. Moritz Anuschek,

Novo Nordisk A/S, Denmark

WEDNESDAY, 11. MARCH 2026

Session on OSD (Oral Solid Dosage)

- 14:15 **Robustness of the machine learning process for non-destructive prediction of tablet breaking force**
Dr. Sven Borchert,
Pharma Technology, Belgium
- 14:45 **Representative sampling of dense powder granule streams for inline PAT prediction of blend uniformity**
Manuel Kuhs, Expo Process Analytics, Ireland
- 15:15 Break 45 min**
- 16:00 **The importance of good sampling when integrating PAT into continuous manufacturing equipment**
Steve Hammond,
Steve Hammond Consulting, USA
- 16:30 **The importance of an end-to-end PAT strategy**
Andrew Anderson ,
ASquared Consultancy, England
- 17:00 **Poster award and honors**
- 17:30 **PAT at the point of care – process analytics for personalized medicine**
Panel Discussion
- 18:15 Freetime**
- 20:00 Dinner at the Kurhaus, Badenweiler

WEDNESDAY, 11. MARCH 2026

Session on Bioprocessing

- 08:00 Registration
- 08:30 **mRNA LNP manufacturing essentials: DSP and analytical considerations**
Dr. Christian Dubiella, Wacker, Germany
- 09:00 **Enabling scalable LNP manufacturing: A cost-efficient approach for tomorrow's mRNA therapies**
Dr. Blerina Shkodra, leon-nanodrugs, Germany
- 09:30 **Deep learning models for Raman Spectroscopy in Bioprocess Monitoring**
Christoph Lange, KIWI-Lab, Germany
- 10:00 Break 45 min**
- 10:45 **PAT in bioprocessing: From Raman to soft sensors**
Dr. Stephan Sacher, RCPE GmbH, Austria
- 11:15 **Raman spectroscopy for real-time process control in pharma and biopharma: Applications across the production lifecycle**
Dr. Leticia Lambert Angulo, Endress+Hauser, France
- 11:45 **Technologies in PAT for pharma: Navigating regulatory landscapes while ensuring smooth operational integration**
Carsten Jasper, PTS Training GmbH, Germany
- 12:15 Walking Lunch in exhibition and posters**
- 13:45 **Synergies within pharma: Advancing BioPharma workflows from R&D to process to patient**
Dr. Stanislav Kasakov, Thermo Fisher Scientific, Switzerland

WEDNESDAY, 11. MARCH 2026

Session on Bioprocessing

- 14:15 **The PAT journey at a multinational pharmaceutical company from an innovative initiative to an integrated global part of their manufacturing DNA**
Jan Verelst, Siemens, Belgium
- 14:45 **Biopharmaceutical applications monitored by Raman and FT-NIR spectroscopy - A comparison**
Dr. Holger Lutz,
Bruker Optics GmbH & KCo. KG, Germany
- 15:15 Break 45 min.**
- 16:00 **Possible application of A-TEEM and application specific EEM to support pharmaceutical cleaning processes**
Dr. Eric Teboul, Horiba Ltd., France
- 16:30 **Process analytical technologies for nano-scale medicine: Inline nanoparticle sizing for mRNA vaccines and antibody therapeutics**
Dr. Rut Besseling, InProcess-LSP,
Netherlands
- 17:00 **Poster award and honors**
- 17:30 **PAT at the point of care – process analytics for personalized medicine**
Panel Discussion
- 18:15 Freetime**
- 20:00 Dinner at the Kurhaus, Badenweiler

THURSDAY, 12. MARCH 2026

OPTIONAL DAY THREE - VISIT Glatt Innovation Center

- 08:00 **Meeting at the Kurhaus
for the drive to Binzen**
- 08:15 **Bus drive from Badenweiler to Binzen**
approx. 40 min drive
- 09:00 Greeting / Introduction of Glatt /
Involved companies / Coffee
- 09:45 Walk to Glatt Technical Innovation Center
- 10:00 **3 stations for 45 min (incl. coffee break)**
5 Groups are in parallel sessions

Group 1: Rotor process with
powder layering at GPCG 30
+ Glatt Vision (Glatt Group) for particle size
distribution and
+ NIR (Bruker) for moisture measurement

Group 2: Wurster-coating (700µm pellets)
at MultiLab
+ Raman (E+H) for coating thickness
batch blending
+ NIR (Viavi) for blending uniformity

Group 3: Drum-coating (Micro tablets)
+ OSeeT (Phyllon) for coating thickness

12:45 Lunch

THURSDAY, 12. MARCH 2026

14:00 **2 Stations for 45 min**

Group 4: Continuous granulation
on MODCOS line

+ Mikrowave (TEWS) for Moisture
Measurement

+ NIR (Sentronic) for Blending Uniformity

+ PSD (Parsum) for Particle Size Distribution

Group 5: Software-Showcase integration of
sensor systems into software systems.

+ KAX, S-PACT, SiPAT and SynTQ.

15:30 Wrap Up / Coffee

16:30 Finish

POSTER

- P.1 **AI agents as enablers for Process Analytical Technology**
Presenter: [Dr. Luise Kaven, BASF SE](#)
- P.2 **Inline size analysis of protein therapeutics and aggregation in downstream processing steps**
Presenter: [Dr. Rut Besseling, InProcess-LSP](#)
- P.3 **Transforming drug discovery: Enhancing High-Throughput screening with the Polispectra® Rapid Raman Plate Reader**
Key learnings
Presenter: [Dr. Eric Teboul, Horiba](#)
- P.4 **Influence of low integration times on the quality of PLS predictions based on tablet Raman spectra**
Presenter: [Sophie Arnold, University of Hamburg](#)
- P.5 **Online LC reaction monitoring of hydrolytic degradation of a small molecule pharmaceutical**
Presenter: [Jens Trafkowski, PhD - Agilent Technologies](#)
- P.6 **Microwave measurement – Basics and calibration**
Presenter: [Dr. Udo Schlemm, TEWS Elektronik GmbH & Co. KG](#)
- P.7 **Microwave measurement in pharmaceutical production**
Presenter: [Dr. Udo Schlemm, TEWS Elektronik GmbH & Co. KG](#)

POSTER

- P.8 **From feasibility to validation - NIR application for real time blending uniformity determination in a OSD product mixing process**
Presenter: [Xiaofang Luo, Bayer AG](#)
- P.9 **Analysis of residual moisture content in tablets with NIR-SRS and 3D-MRT**
Presenter: [Brent Van Geyt, Ghent University](#)
- P.10 **Book start-to-finish pharmaceutical manufacturing with efficient, cost saving and sustainable testing using innovative Raman Spectroscopy**
Presenter: [Dr. Marion Boerger, Agilent](#)
- P.11 **Development of an inline Raman spectroscopy method for monitoring biotechnological production processes using the example of MEL and CE**
Presenter: [Michael Feige, Metrohm Deutschland GmbH & Co. KG](#)
- P.12 **X-ray as a pat instrument for microdosing in blisters**
Presenter: [Klaus Käfer, Harro Höfliger GmbH](#)
- P.13 **Neurodynamic control for tumble blending via PAT-W spectroscopy**
Presenter: [Carolina Gastone, Eigengran](#)

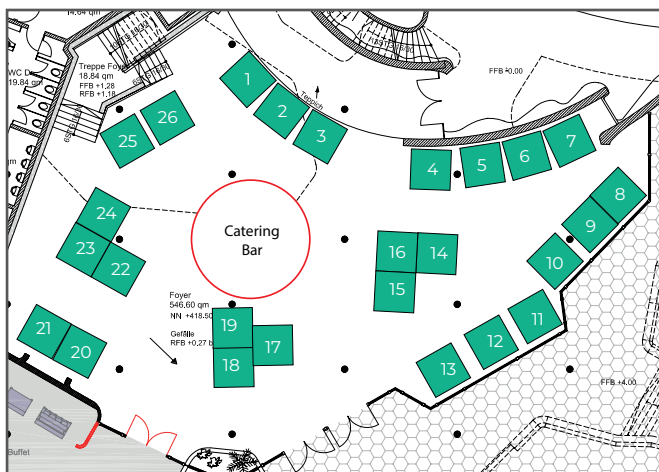
POSTER

- P.14 **Real-Time image-based inline measurement technology enabling understanding and scale-up of multiphase flows in mini plants and process equipment**
Presenter: [Marc Hofmann](#),
[RPTU Kaiserslautern-Landau](#)
- P.15 **Contamination prevention as a PAT enabler: Cavitation-free ultrasonic wavefields for sensitive processes and delicate sensors**
Presenter: [Dr. Stefan Radel](#), [usePAT GmbH](#)
- P.16 **Synergies within BioPharma: Advancing workflows from R&D to process to patient**
Presenter: [Dr. Stanislav Kasakov](#),
[Thermo Fisher Scientific](#)
- P.17 **Multi-Spectral fiber systems for process-control in-line**
Presenter: [Dr. Viacheslav Artyushenko](#),
[Art Fiber Systems GmbH](#)
- P.18 **PAT setup of Lérobot – novel approach to produce personalized drug formulations**
Presenter: [Adam Waněk](#)
[University of Chemistry and Technology](#),
[Prague](#)
- P.19 **PAT realization of an automated release process in the recovery of solvents**
Presenter: [Dr. Oliver Mandal](#), [Hellma GmbH](#)
- P.20 **Raman Spectroscopy for real-time process control in Pharma and Biopharma: Applications across the production lifecycle**
Presenter: [Dr. Leticia Lambert Angulo](#),
[Endress+Hauser](#)

EXHIBITORS

All locations of the exhibitors

Sentronic	1
Parsum	2
Phyllon	3
TEWS Elektronik	4
Metrohm	5
Bruker	6
GMP-Verlag	7
Endress+Hauser	8
VIAVI Solutions	9
Expo Process Analytics	10
Agilent Technologies	11
SciY	12
Pharma Technology	13
Sartorius	14
Siemens	15
InProcess-LSP	16
art photonics	17
Horiba	18
KAX Group	19
Art Fiber Systems	20
Hellma	21
Mauchner Jenkins	22
Renishaw	23
tec5	24
Glatt Group	25
Harro Höfliger	26



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ORGANIZATION

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