

## PDA Good Aseptic Manufacturing Conference 2024

#### Wednesday, 15 May

08:00 - 17:30

#### Registration Open

Saal MARITIM & Lobby Empore

09:00 - 09:05

#### Welcome and Introduction

Alte Stuttgarter Reithalle

Committee Member: Falk Klar, PhD, Parenteral Drug Association

09:05 - 09:15

#### Welcome from the Co-Chairs

Alte Stuttgarter Reithalle

Co-Chair: Simone Biel, PhD, Senior Regulatory Consultant, Merck

Co-Chair: Darren Beckett, Sr. Training and R&D Manager, Fedegari Technologies Inc

09:15 - 10:45

Opening Plenary Part I: Advancing Aseptic Manufacturing for Safe Medicines - Lessons Learned and Path Forward Alte Stuttgarter Reithalle

Through insightful keynote presentations, interactive discussions, and case studies, participants will explore the challenges and achievements in EU GMP Annex 1 implementation. Join us for this thought-provoking session as we collectively reflect on the progress made thus far, identify areas for improvement, and lay the groundwork for a harmonized approach to aseptic manufacturing that ensures the continued delivery of safe medicines to patients worldwide.

Moderator: Simone Biel, PhD, Senior Regulatory Consultant, Merck

09:15 - 09:45

Keynote: Empowering Patients Through Good Aseptic Manufacturing: A Vital Journey Towards Safer Medical Products

Presenter: Hussain Jafri, PhD, Executive Director, World Patients Alliance

09:45 - 10:15

Fit for Future: Sterile Manufacture? A Personal View on Revised EU GMP Annex 1

Regulatory Presenter: Daniel Mueller, PhD, Head of GMDP-Inspectorate, Regierungspraesidium Tuebingen, Germany

10:15 - 10:45

Implementation of EU GMP Annex 1 – Inspection Experiences and Expectations

Regulatory Presenter: Christina Meissner, AGES - Austrian Agency for Health and Food Safety



## PDA Good Aseptic Manufacturing Conference 2024

10:45 - 11:15

#### Networking Coffee Break, Poster Session & Exhibition

Saal MARITIM & Lobby Empore

11:15 - 12:45

Opening Plenary Part II: Advancing Aseptic Manufacturing for Safe Medicines - Lessons Learned and Path Forward Alte Stuttgarter Reithalle

Through insightful keynote presentations, interactive discussions, and case studies, participants will explore the challenges and achievements in Annex 1 implementation. Join us for this thought-provoking session as we collectively reflect on the progress made thus far, identify areas for improvement, and lay the groundwork for a harmonized approach to aseptic manufacturing that ensures the continued delivery of safe medicines to patients worldwide.

Moderator: Simone Biel, PhD, Senior Regulatory Consultant, Merck

11:15 - 11:35

The Evolution of the Contamination Control Strategy from Concept/Conversion to Continuous Improvement

Presenter: Tracy Moore, Director, TM Pharma Group Ltd

11:35 - 11:55

EU GMP Annex 1 Implementation: A Case Study of the Sterile Production at F. Hoffmann-La Roche Ltd.

Presenter: Tarik Cheema, PhD, End to End Contamination Control Manager, F. Hoffmann-La Roche AG

11:55 - 12:00

Interactive Questionnaire Session

12:00 - 12:45

Plenary Discussion

Moderator: Simone Biel, PhD, Senior Regulatory Consultant, Merck

Moderator: Darren Beckett, Sr. Training and R&D Manager, Fedegari Technologies Inc

Panelist: Hussain Jafri, PhD, Executive Director, World Patients Alliance

Panelist: Tarik Cheema, PhD, End to End Contamination Control Manager, F. Hoffmann-La Roche AG

Panelist: Tracy Moore, Director, TM Pharma Group Ltd

Panelist: Christina Meissner, AGES - Austrian Agency for Health and Food Safety

Panelist: Daniel Mueller, PhD, Head of GMDP-Inspectorate, Regierungspraesidium Tuebingen, Germany



## PDA Good Aseptic Manufacturing Conference 2024

### Networking Lunch Break & Exhibition

Saal MARITIM & Lobby Empore

13:30 - 14:00

### Guided Poster Walk

Lobby Empore

13:30 - 14:00

Biodecontamination of Raw Materials in Packaging Production Process

Poster Presenter: Andrea Weiss

13:30 - 14:00

CFD - Computational Fluid Dynamics for Airflow Visualization Studies

Poster Presenter: Christian Scarpato, Process Engineering Manager, Merck

13:30 - 14:00

eBeam Technology - Transfer Technology for Pre-Sterilized RTU Components

Poster Presenter: Manfred Holzer, Strategic Product Manager E-Beam Technology, SKAN AG

13:30 - 14:00

Environmental Monitoring in LIMS

Poster Presenter: Julia Wiesner, PhD, Senior Director, Head of QC & QA Systems, Merz Pharma GmbH & Co. KGaA

13:30 - 14:00

Far UV-C Light - Safe and Effective Decontamination

**Poster Presenter: Peter Tonning** 

13:30 - 14:00

Headspace Analysis as Innovative Method for Media Fill Inspection

Poster Presenter: Michael Mettraux, MSc ETH, Development Engineer, WILCO AG

13:30 - 14:00

Particle Loss in Transport Tubing: How to Address the New Annex 1 Requirement

Poster Presenter: Serena Steidl, MD, EMEA Advisory Project Coordinator - Advisory Specialist, Particle Measuring Systems



## PDA Good Aseptic Manufacturing Conference 2024

13:30 - 14:00

Rapid Sterility Testing as the Critical and Final Result for Product Release - Design Verification (DV) Data

Poster Presenter: Johannes Oberdörfer, B.Sc, Field Application Scientist, Rapid Micro Biosystems

13:30 - 14:00

Reducing Glove Intervention in Fill & Finish Process

Poster Presenter: Patrick Wieland

13:30 - 14:00

The Need for High Quality in Primary Packaging

Poster Presenter: Ana Kuschel, PhD, Principal Scientific Affairs, West Pharmaceutical Services, Inc.

Poster Presenter: Niamh Bissett

13:30 - 14:00

Trending and Pattern Recognition for Annex1

Poster Presenter: Susan B. Cleary, B.CS, EMBA, Director Product Development, Novatek

13:30 - 14:00

VHP Uptake of Manufacturing Tubing Used for Aseptic Fill-Finish Processes of Biopharmaceutical Drug Products

Poster Presenter: Dilara Ali, MSc, PhD Student, ten23 health

14:00 - 15:20

#### Session 1, Track A: Impact of EU GMP Annex 1 on Lyophilization

Alte Stuttgarter Reithalle

The new EU GMP Annex 1 introduces new requirements relating to the entire freeze-drying process including product transfer. Now you can dive into the main aspects of the new requirements by analyzing a senior GMP inspector who worked with the Italian Ministry of Health and the Italian Medicines Agency for more than 20 years. You will also be involved in a case study concerning the development of an Aseptic Process Simulation for lyophilized products, that mimics as closely as possible the routine aseptic manufacturing process with a deep dive into a simulation of lyophilization justified by a scientific and risk-based approach.

Moderator: Andrea Salmaso, PharmD, Corporate Regulatory and Scientific Affairs Manager, Stevanato Group

14:00 - 14:25

Requirements for Lyophilization in the New EU GMP Annex 1

Regulatory Presenter: Marisa Delbo, PharmD, Consultant, NA

14:25 - 14:50



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A Better Approach to Aseptic Process Simulation (APS) for Lyophilized Products - APS Approach for Freeze-Drying Process Considering EU GMP Annex 1 Requirements

Presenter: Christian Scarpato, Process Engineering Manager, Merck

14:50 - 15:20

Q&A, Discussion

Moderator: Andrea Salmaso, PharmD, Corporate Regulatory and Scientific Affairs Manager, Stevanato Group

Panelist: Marisa Delbo, PharmD, Consultant, NA

Panelist: Christian Scarpato, Process Engineering Manager, Merck

14:00 - 15:20

### Session 1, Track B: Sustainability in Aseptic Manufacturing

Salon Köln, Bonn, Hamburg

Sustainability is a core value within the whole industry today and the pharmaceutical industry – aseptic process is not an exception. In this session, we will first give an insight into how design, technology, and innovation will participate in setting up sustainable solutions reducing our global impact on the environment by overviewing big levers e.g. Water for Injection (WFI), Steam generation, HVAC, circular economy (Single use and Take-back program). Then focus will be given to Big Data and Artificial intelligence (AI) to model material impact assessment. While discussing performance and growth, the success of the industry remains that the only way to continue to supply and deliver sustainably is to deliver safety, and compliance in an efficient way.

Moderator: Paul Devuyst, Master Bioengineer, Senior Manager Aseptic Technologies, GSK

14:00 - 14:25

From Sustainability Ambitions into Action: What About Aseptic Manufacturing?

Presenter: Michael Hell, PhD, Head of Environment / Sustainability Healthcare Operations, Merck Healthcare KGaA

14:25 - 14:50

Can We Have Reliable and Fast Sustainability Impact Assessments? Merging Technology, Innovation, and Sustainability

Presenter: Alissa Monk, Sustainability Lead, ten23 health

14:50 - 15:20

Q&A, Discussion

Moderator: Paul Devuyst, Master Bioengineer, Senior Manager Aseptic Technologies, GSK

Panelist: Michael Hell, PhD, Head of Environment / Sustainability Healthcare Operations, Merck Healthcare KGaA

Panelist: Alissa Monk, Sustainability Lead, ten23 health



## PDA Good Aseptic Manufacturing Conference 2024

### Networking Coffee Break, Poster Session & Exhibition

Saal MARITIM & Lobby Empore

15:50 - 17:10

#### Session 2, Track A: Filtration and Closed Systems

Alte Stuttgarter Reithalle

At the heart of patient safety, aseptic processing is a critical component of drug product manufacturing, and ensuring the integrity of one's process is paramount. During this session, we will have two subject matter experts on the subject speak about their experiences around filtration and single-use assembly integrity. They will assess the impact of regulations and implications on safety as well as extreme process conditions and steps that should be taken to ensure proper compliance.

Moderator: Peter J. Makowenskyj, MEng, Director of Design Consulting, G-CON

15:50 - 16:15

PUPSIT in the Revised Annex I – Friend or Foe of the Pharmaceutical Entrepreneur?

Presenter: Manuel Grund, Process Engineer, Roche Pharmaceuticals

16:15 - 16:40

Contamination Control Strategies in Processing of Frozen Sterile Bulk Drug Product in Single-use Bag Assembly

Presenter: Yuan-An Liu, PhD, Associate Director CMC, BioNTech SE

16:40 - 17:10

Q&A, Discussion

Moderator: Peter J. Makowenskyj, MEng, Director of Design Consulting, G-CON

Panelist: Manuel Grund, Process Engineer, Roche Pharmaceuticals

Panelist: Yuan-An Liu, PhD, Associate Director CMC, BioNTech SE

15:50 - 17:10

#### Session 2, Track B: Aseptic Set-Up of Filling Machines

Salon Köln, Bonn, Hamburg

With the requirements of the new EU GMP Annex 1, the aseptic set-up of a filling machine gets challenging. In former times you could use the VHP cycle as the final sterilization step. This is not possible anymore. Indirect product contact parts have to be (ideally steam-) sterilized and installed after the VHP cycle. The track shows two different approaches that are both relevant these days: One with an existing isolator line where you use enhanced "classical" methods to install the steam sterilized parts. And a completely newly developed machine with a gloveless isolator. Where you do steam sterilization for the indirect product contact parts and a fully automatic aseptic transfer and installation by using RTP ports and a robot. For the filling path, both solutions use pre-sterilized single-use filling systems.

Moderator: Klaus Ullherr, Senior Product Manager, Syntegon Technology GmbH

15:50 - 16:15

Implementing EU GMP Annex 1 Guidelines: A Comprehensive Approach to Sterility Assurance for Indirect Product Contact Parts

Presenter: Christian Rust, B.S. Chemical and Biomolecular Engineering, Technical Operations, MSD



## PDA Good Aseptic Manufacturing Conference 2024

16:15 - 16:40

Compliance with New Annex 1 on a Fill/Finish Machine: A Glance into the Future

Presenter: Helen Sauter, Dr, Director Quality Assurance, Vetter Pharma Fertigung GmbH & Co. KG

16:40 - 17:10

Q&A, Discussion

Moderator: Klaus Ullherr, Senior Product Manager, Syntegon Technology GmbH

Panelist: Christian Rust, B.S. Chemical and Biomolecular Engineering, Technical Operations, MSD

Panelist: Helen Sauter, Dr, Director Quality Assurance, Vetter Pharma Fertigung GmbH & Co. KG

17:10 - 22:00

End of Conference Day 1 & Networking Event

### Thursday, 16 May

08:00 - 17:45

#### Registration Open

Saal MARITIM & Lobby Empore

09:00 - 10:30

### Session 3, Track A: Environmental Monitoring

Alte Stuttgarter Reithalle

This session will cover the latest developments in environmental monitoring (EM). The presenters will discuss how the data is utilized to adapt the new and updated approach for a better EM including the improvements enhanced to be compliant with Annex 1. The session will address new innovative ways to evaluate real-time continuous air monitoring. Two case studies will be presented, lessons learned from implementing total particle count tubing qualification on non-viable particle count systems and Automated Reading of Agar Plates using AI. Attendees will gain insights into the latest techniques in Environmental Monitoring, associated challenges and learnings, and how these advancements can be applied to impact our industry.

Moderator: Hue Kwon, PhD, Advisory consultant, GLS Advisors LLC

09:00 - 09:20

Total Particle Count - Tubing Qualification at GSK: Lessons Learned

Co-Presenter: Paul Devuyst, Master Bioengineer, Senior Manager A septic Technologies, GSK

Co-Presenter: Kurt Jaecques, MA, Global Aseptic Technologies Lead Monitoring & Control, GSK

09:20 - 09:40

How to Collect All Environmental Monitoring Data and Doing Computerized Trending Without Entering the Data Manually



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Co-Presenter: Marc M. Machauer, OEM Coordinator, Particle Measuring Systems

Co-Presenter: Susan B. Cleary, B.CS, EMBA, Director Product Development, Novatek

09:40 - 10:00

Automated Reading of Agar Plates Using AI and Machine Learning

Presenter: Andrew Gravett, Principal Scientist Microbiology, AstraZeneca

10:00 - 10:30

Q&A, Discussion

Moderator: Hue Kwon, PhD, Advisory consultant, GLS Advisors LLC

Panelist: Paul Devuyst, Master Bioengineer, Senior Manager Aseptic Technologies, GSK

Panelist: Marc M. Machauer, OEM Coordinator, Particle Measuring Systems

Panelist: Andrew Gravett, Principal Scientist Microbiology, AstraZeneca

Panelist: Susan B. Cleary, B.CS, EMBA, Director Product Development, Novatek

09:00 - 10:30

#### Session 3, Track B: Equipment for Aseptic Processes

Salon Köln, Bonn, Hamburg

During this session, we will explore the technological advancements that could enhance existing production lines and address specific material transfer needs to minimize particulates, pyro, and bioburden. The speakers will delve into strategies for aligning practices with the Annex requirements. We will discuss how leveraging technology can enhance aseptic environments and share insights on retrofitting equipment and processes to meet material transfer and sanitization standards. Our approach will break down these complex concepts into manageable steps that can be seamlessly integrated into your operations.

Moderator: Tracy Moore, Director, TM Pharma Group Ltd

09:00 - 09:20

EU GMP Annex 1 and 'Good Technology Practice' - Interpretation and Engineering for This Side of Production

**Presenter: Johannes M. Rauschnabel, PhD**, Director Advanced Technology Development and Innovation, *Syntegon Technology GmbH* 

09:20 - 09:40

Critical Factors in the Material Transfer Process

Presenter: Anna Campanella, PhD, Global Aseptic Processing & Sterility Assurance Lead, Takeda Pharmaceuticals International AG

09:40 - 10:00

Disinfection and Material Intake Programs - Implementation, Challenges and Solutions

Presenter: David Keen, MRSB CBiol, Director Pharmaceutical Microbiology & Consulting, Ecolab Life Sciences



## PDA Good Aseptic Manufacturing Conference 2024

10:00 - 10:30

Q&A, Discussion

Moderator: Tracy Moore, Director, TM Pharma Group Ltd

Panelist: Anna Campanella, PhD, Global Aseptic Processing & Sterility Assurance Lead, Takeda Pharmaceuticals International AG

Panelist: Johannes M. Rauschnabel, PhD, Director Advanced Technology Development and Innovation, Syntegon Technology GmbH

Panelist: David Keen, MRSB CBiol, Director Pharmaceutical Microbiology & Consulting, Ecolab Life Sciences

10:30 - 11:00

Networking Coffee Break, Poster Session & Exhibition

Saal MARITIM & Lobby Empore

11:00 - 12:20

### Session 4, Track A: Quality Risk Management

Alte Stuttgarter Reithalle

Concerning the EU GMP Annex 1, QRM Quality Risk Management includes the Contamination Control Strategy CCS with all procedures and processes for the safe production of the sterile pharmaceutical product. An essential component of quality risk management is the ICH Q9 to identify the possible risks in the production of the sterile product and to integrate them into the contamination control strategy. In the Aseptic Process Simulation APS, the entire process is checked by all operators to ensure the sterility of the pharmaceutical drug.

Moderator: Richard Denk, Senior Consulting Aseptic Processing & Containment, SKAN AG

11:00-11:25

A Matter of Uncertainty: Risk Tool Selection With ICH Q9(R1) In Mind

Presenter: Amanda McFarland, MS, Senior Consultant, ValSource, Inc.

11:25 - 11:50

Using Risk Management to Design Aseptic Process Simulations

Presenter: Alberto Gonzalez, Global Sterility Assurance Associate Director, Takeda

11:50 - 12:20

Q&A, Discussion

Moderator: Richard Denk, Senior Consulting Aseptic Processing & Containment, SKAN AG

Panelist: Alberto Gonzalez, Global Sterility Assurance Associate Director, Takeda

Panelist: Amanda McFarland, MS, Senior Consultant, ValSource, Inc.



## PDA Good Aseptic Manufacturing Conference 2024

11:00 - 12:20

#### Session 4, Track B: RABS/Isolator

Salon Köln, Bonn, Hamburg

Moderator: David Keen, MRSB CBiol, Director Pharmaceutical Microbiology & Consulting, Ecolab Life Sciences

11:00 - 11:25

Pre-Validation of a Gloveless Isolator Filling Line - Experience and Lessons Learned

Presenter: Bianca Bohrer, Dipl Ing, Managing Director, PSM GmbH

11:25 - 11:50

Leveraging Emerging Technologies for H2O2 Bio-Decontamination: From Novel Process Data to Real Process Impact

Presenter: Martin Novak, MSc, Technology Lead, SKAN AG

11:50 - 12:20

Q&A, Discussion

Moderator: David Keen, MRSB CBiol, Director Pharmaceutical Microbiology & Consulting, Ecolab Life Sciences

Panelist: Bianca Bohrer, Dipl Ing, Managing Director, PSM GmbH

Panelist: Martin Novak, MSc, Technology Lead, SKAN AG

12:20 - 13:20

## Networking Lunch Break, Poster Session & Exhibition

Saal MARITIM & Lobby Empore

13:20 - 13:30

### Interactive Questionnaire Session

Alte Stuttgarter Reithalle

13:30 - 14:15

### Closing Plenary Part I

Alte Stuttgarter Reithalle

Moderator: Darren Beckett, Sr. Training and R&D Manager, Fedegari Technologies Inc

13:30 - 13:40

Excitement @Syntegon - Insights and Preparation for the Syntegon Factory Tour

Presenter: Klaus Ullherr, Senior Product Manager, Syntegon Technology GmbH



## PDA Good Aseptic Manufacturing Conference 2024

13:40 - 13:55

Introduction of PDA Points to Consider (PtC) for Aseptic Filling

Presenter: Julian Petersen, Head of Business Development, groninger & co. gmbh

13:55-14:15

Evolution of GMPs and Why They Are Particularly Important for Sterile Manufacturing

Presenter: Andrew D. Hopkins, PGDip, Director, Operation Quality QA Audit and Compliance, AbbVie Inc.

14:15 - 14:45

### Networking Coffee Break, Poster Session & Exhibition

Saal MARITIM & Lobby Empore

14:45 - 14:50

#### Passport Raffle

Alte Stuttgarter Reithalle

Moderator: Melanie Decker, Parenteral Drug Association

14:50 - 16:20

### Closing Plenary Part II

Alte Stuttgarter Reithalle

Moderator: Darren Beckett, Sr. Training and R&D Manager, Fedegari Technologies Inc

14:50-15:15

A Review of Recent Inspectional Trends: Aseptic Manufacturing - remote presentation -

Regulatory Presenter: Brooke K. Higgins, MS, Branch Chief, OC, CDER, U.S. FDA

15:15 - 15:40

Updates on EU GMP Annex 1 - remote presentation -

Regulatory Presenter: Roberto Conocchia, MD, GMP Technical Lead, European Medicine Agency

15:40 - 16:20

Plenary Discussion

Moderator: Simone Biel, PhD, Senior Regulatory Consultant, Merck



## PDA Good Aseptic Manufacturing Conference 2024

Moderator: Darren Beckett, Sr. Training and R&D Manager, Fedegari Technologies Inc

Panelist: Julian Petersen, Head of Business Development, groninger & co. gmbh

Panelist: Andrew D. Hopkins, PGDip, Director, Operation Quality QA Audit and Compliance, AbbVie Inc.

Panelist: Roberto Conocchia, MD, GMP Technical Lead, European Medicine Agency

Panelist: Brooke K. Higgins, MS, Branch Chief, OC, CDER, U.S. FDA

Panelist: Klaus Ullherr, Senior Product Manager, Syntegon Technology GmbH

Panelist: Christina Meissner, AGES - Austrian Agency for Health and Food Safety

Panelist: Marisa Delbo, PharmD, Consultant, NA

Panelist: Daniel Mueller, PhD, Head of GMDP-Inspectorate, Regierungspraesidium Tuebingen, Germany

16:20 - 16:30

#### Conference Summary from the Co-Chairs

Alte Stuttgarter Reithalle

Co-Chair: Simone Biel, PhD, Senior Regulatory Consultant, Merck

Co-Chair: Darren Beckett, Sr. Training and R&D Manager, Fedegari Technologies Inc

16:30 - 16:35

### Closing Remarks & Farewell

Alte Stuttgarter Reithalle

Committee Member: Falk Klar, PhD, Parenteral Drug Association