

| Time    | European Aseptic Conference – Technology   | European Aseptic Conference – Compliance  | New Developments in Barrier Systems & Robotics  | PUPSIT: Complying with the Main Annex 1 Changes  | GMP for Pre-filled Syringes (PFS)   | Pharma 4.0 & Digitalisation  | Handling of Highly Active Products   | ATMP – Manufacturing, Quality & Safety   | Time    |         |
|---------|--|---|---|--|---|--|--|--|---------|---------|
|         | Studio 1.2   | Studio 1.3 CD   | Studio 1.3 AB   | Forum 1.2  | Studio 1.5  | Studio 1.4   | Studio 1.1   | Forum 1.3  |         |         |
| 9:00 h  | <p align="center"><b>Keynote: Comprehensive Transformation of DR. KADE's Sites and Supply Chain</b></p> <p align="center"><i>Dr Norbert Marquardt, Dr Kade Health Care</i></p>               |   |   |  |   |  |  |  |         | 9:00 h  |
| 9:15 h  |  |   |   |  |   |  |  |  |         | 9:15 h  |
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| 10:00 h | Break  |   |   |  |   |  |  |  |         | 10:00 h |
| 10:15 h | Break  |   |   |  |   |  |  |  |         | 10:15 h |
| 10:30 h | Implementing of PAT Tool for Lyophilization<br><i>Dr Patricia Desmaris, Merck Serono Anton Mangold, Tempris</i>  | Inspection Readiness in View of Annex 1<br><i>Dr Stephan Heck, Bipso Dr Ralf Aubeck, gempex</i>   | Retrofitting RABS - Upgrade to V-CRT<br><i>Dr Ute Schleyer, Vetter Pharma-Fertigung</i>   | Introduction of the Annex 1 PUPSIT Requirement<br><i>Dr Simone Biel, Merck</i>   | Regulatory overview, Annex 1 Impact and Inspection Experience<br><i>Dr Daniel Müller, Local Government, Germany</i> | Introduction: Digitalisation in GxP environment: Between Mantra and Reality<br><i>Yves Samson, Kereon Stefan Münch, Körber Pharma Consulting</i> | Principles of Assessing and Managing Occupational Health Risks in Potent Compound Handling<br><i>Dr Andreas Flückiger, formerly F. Hoffmann-La Roche</i> | Vectors for ATMPs – Stabilization by Formulation Development<br><i>Dr Sabine Hauck, Leukocare</i>  | 10:30 h |         |
| 10:45 h |  |   |   |  |   |  |  |  | 10:45 h |         |
| 11:00 h | <b>Live Demos</b><br>ZETA<br><i>Tempris Alfa Laval Mid Europe VITRONIC</i>   | Getting the Basics right<br><i>Owen Prichard, Consultant</i>  | Process Automation in a Small Scale Aseptic Manufacturing Site for Clinical Trial Products<br><i>Dr Tim Stöveken, Merz Therapeutics Martin Glättli, ProSys Group</i>                                | Practical Aspects of PUPSIT Implementation<br><i>Guillaume Lesage, Merck</i>   | PFS made from Glass or Polymer<br><i>Horst Koller, HK Packaging</i>   | Digitalisation from the Inspector's Point of View<br><i>Dr Arno Terhechte, Bezirksregierung Münster, Germany</i>                                 | Cellular Starting Material for ATMP<br><i>Lisa Meyer, Minaris Regenerative Medicine</i>  | 11:00 h  |         |         |
| 11:15 h |  |   |   |  |   |  |  | 11:15 h  |         |         |
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| 12:30 h | Break  |   |   |  |   |  |  |  |         | 12:30 h |
| 12:45 h | <b>Live Demos</b><br><i>IWT / Tecniplast Innerspace</i>  |   |   |  |   |  |  |  |         | 12:45 h |
| 13:00 h | Break  |   |   |  |   |  |  |  |         | 13:00 h |
| 13:15 h | Break  |   |   |  |   |  |  |  |         | 13:15 h |
| 13:30 h | Continuous Freeze Drying<br><i>Dr Friedrich Haefele, formerly Boehringer Ingelheim Pharma</i>  | Cross-contamination: Other Aspects than Cleaning Validation<br><i>Jean-Denis Mallet, ECA</i>  | Replacement of H <sub>2</sub> O <sub>2</sub> Generator from Existing Vial Filling Line<br><i>Dr Simone Bläsi, F. Hoffmann-La Roche Kenan Kanmaz, Metall+Plastic</i>                                 | Case Study Boehringer Ingelheim Pharma: PUPSIT Risk Assessment: The Impact of Equipment Design<br><i>Dr Florian Witte, Boehringer Ingelheim Pharma</i> | PFS and Needle Safety Systems<br><i>Horst Koller, HK Packaging</i>  | Influence of Digitalisation on the Future Work of Quality Departments<br><i>Jürgen Schmitz, GSK Biologicals</i>                                  | Review of Technical Requirements for contained Product Handling<br><i>Dr Andreas Flückiger, formerly F. Hoffmann-La Roche</i>                            | ATMP: Market, Manufacturing and Challenges<br><i>Dr Mohamad Toutounji, Molgenium</i>   | 13:30 h |         |
| 13:45 h |  |   |   |  |   |  |  |  | 13:45 h |         |
| 14:00 h | Energy Saving in Class C Clean-rooms Through Reduced Air Change Rates – a Case Study From a Biotech Company<br><i>Dr Detlef Behrens, University of Applied Sciences / Philips University</i> | Airflow Visualization According to New Annex 1<br><i>Luigi Scaffidi, Boehringer Ingelheim Pharma</i>  | Barrier Systems and Automation – the Needs and the Potential considering Contamination Control Strategy (CCS)<br><i>Robert G. Schwarz, FH Campus Wien</i>   | PUPSIT – Annex 1 – Application of Risk Management<br><i>Dr Philip Hörsch, Vetter Pharma-Fertigung</i>  | Tubs and Nests<br><i>Iwan Tresch, FischerSöhne</i>  | <b>Live Demos</b><br><i>Pharmaplan Ellab Bausch+Ströbel</i>  | Case Study Pfizer: Constructional and regulatory Challenges of an OEB 4 Manufacturing Site (online)<br><i>Dr Gunther Bechmann, Pfizer</i>                | GMP for ATMP<br><i>Dr Rainer Gnibl, Local Government of Upper Bavaria</i>  | 14:00 h |         |
| 14:15 h |  |   |   |  |   |  |  |  | 14:15 h |         |
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| 15:45 h | Critical Thinking and Risk Management in Construction Projects as a Means to Maximize Value – a Template for New CR Site in Kaarst<br><i>Carsten Jasper, Charles River Laboratories</i>      | Sustainable Way of flexible Filling – prepared for Future Demands<br><i>Martin Frei, Lonza Patrick Wieland, Bausch+Ströbel</i>  | Benefits of Robotics in a CDMO Environment – A Case Study at the German CDMO PSM about using gloveless robotic filling System...<br><i>Julian Petersen, groninger &amp; co Thorsten Häfner, PSM</i> | Case Study Novartis Pharma: PUPSIT – YES or NO?<br><i>Matthias Schaar, Novartis Pharma Stein</i>   | Fill-Finish Processes for Prefilled Syringes<br><i>Markus Busch, Vetter Pharma-Fertigung</i>                        | Case Study – Digitalisation for Construction Management of Large Biopharmaceutical Plant<br><i>Marick Paris-Cadet, Technip Energies</i>          | GMP Inspection Experience of Products containing hazardous Substances & Introduction to WHO's Prequalification Program<br><i>Vimal Sachdeva, WHO</i>     | From Process Transfer to clinical / commercial Manufacturing of Cell and Gene Therapy Products – Experiences of a CDMO<br><i>Kati Keibel, Fraunhofer Institute for Cell Therapy and Immunology</i> | 15:45 h |         |
| 16:00 h |  |   |   |  |   |  |  |  | 16:00 h |         |
| 16:15 h | What if Final Product Filtration is Not Possible? Challenges and Opportunities of Aseptic Manufacturing for Large Viruses<br><i>Margarida Rosa, Genibet Biopharmaceuticals</i>               | Annex 1 and the Related Improvements Out of Machine Vendor Perspective<br><i>Dr Friedrich Haefele, formerly Boehringer Ingelheim Pharma Jill Dietrich, Bausch+Ströbel</i> | Barriers & Robotic Isolators in New Annex 1 (2022 version)<br><i>Dr Daniel Müller, Local Government, Germany</i>  | Case Study GSK: PUPSIT – From Design to Implementation<br><i>Vincent Delferriere, GSK</i>  | Sterile Secondary Packaging<br><i>Peter Huonker, Lonza</i>  | Automated Validation – Enabling Better Data Reliability and Integrity in Life Sciences<br><i>Eva Kelly, ERA Sciences</i>                         | Case Study Hovione: Spray Drying and Continuous Tableting of highly active Materials in a GMP Environment<br><i>Dr Filipe Gaspar, Hovione</i>            | Cell based ATMPs: A Success Story<br><i>Dr Katja Aschermann, TETEC</i>   | 16:15 h |         |
| 16:30 h |  |   |   |  |   |  |  |  | 16:30 h |         |
| 16:45 h | Break  |   |   |  |   |  |  |  |         | 16:45 h |
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| 17:15 h | Break  |   |   |  |   |  |  |  |         | 17:15 h |
| 17:30 h | Social Event   |   |   |  | Social Event  |  |  |  |         | 17:30 h |



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| 9:00 h  | Keynote: Trends in Aseptic Manufacturing: Questions and Demands for Pharma Machine Vendors   |  |  |   |   |   |  | 9:00 h  |         |  |         |
| 9:15 h  | Dr Friedrich Haeefele, formerly Boehringer Ingelheim Pharma  |  |  |   |   |   |  | 9:15 h  |         |  |         |
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| 10:00 h | Break  |  |  |   |   |   |  | 10:00 h   |         |  |         |
| 10:15 h |  |  |  |   |   |   |  | 10:15 h   |         |  |         |
| 10:30 h | Preparing the Facility for Extended Global Markets – Case Study<br><i>Raquel Arenós, INBISA<br/>Londa Ritchey, Pharmalex</i>   | The Use of Robotic Systems<br><i>Jörg Zimmermann, Vetter Pharma-Fertigung</i><br>Validated Technology for a Flexible Aseptic Robotic Parts<br><i>Sascha Wittig, WEISS ROBOTICS</i> | Case Study Roche Diagnostics: Pre-Use Post Sterilisation Integrity Testing (PUPSIT) in the Revised Annex 1 - Friend or Foe of the Pharmaceutical Entrepreneur?<br><i>Manuel Grund, Roche Diagnostics</i> | Container Closure Integrity<br><i>Jean-François Decoster, UCB</i>   | Advanced Monitoring of Production Process Using IIoT System<br><i>Milos Nikolic, Galenika</i>   | Cross Contamination Control Strategy in Light of the new Annex I<br><i>Robert G. Schwarz, FH Campus, Vienna</i>   | Individual stringent Mini Isolators for autologous Cell Therapy<br><i>Didier Meyer, DMCompliance</i>   | 10:30 h   |         |  |         |
| 10:45 h |  |  |  |   |   |   |  | 10:45 h   |         |  |         |
| 11:00 h |  |  |  |   |   |   |  | 11:00 h   |         |  |         |
| 11:15 h | Innovative Ozone Decontamination Process Including Areas of Application and Practical Example<br><i>Bernd Geis<br/>Julian Ott<br/>Matthias Buttazoni</i>   | Automated Thawing Process: Combining Robotic and Manual Process Steps<br><i>Maren Jahn, Vetter Pharma-Fertigung</i>  | <b>Live Demos</b><br><i>Merck<br/>Pall</i>   | Process Simulation / Media Fill<br><i>Dr Helen Sauter, Vetter Pharma-Fertigung</i>  | DigitaliSation and Automation: How to Avoid Losing from Day One, Preventing Successful Transformation to Fall Short<br><i>Ana Cláudia Pinho, BIAL - Portela &amp; C.ª</i> | Case Study Lonza: Use of single-use equipment for the commercial production of highly potent ADCs (online)<br><i>Dr Christoph Umbricht, Lonza</i>             | Case study: QC Test Profile and Release Strategies for ATMP<br><i>Stephane Gumy, PMS<br/>Dr Joaquin Urdinez, Cutiss</i>  | 11:15 h   |         |  |         |
| 11:30 h |  |  |  |   |   |   |  | 11:30 h   |         |  |         |
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| 12:00 h | Break  |  |  |   |   |   |  | 12:00 h   |         |  |         |
| 12:15 h |  |  |  |   |   |   |  | 12:15 h   |         |  |         |
| 12:30 h | <b>Live Demos</b><br><i>Yokogawa<br/>Emerson Automation Solutions<br/>WILCO</i>  |  |  |   |   |   |  | 12:30 h   |         |  |         |
| 12:45 h |  |  |  |   |   |   |  | 12:45 h   |         |  |         |
| 13:00 h |  |  |  |   |   |   |  | 13:00 h   |         |  |         |
| 13:15 h | Flexible Solutions for Different Market Requirements<br><i>Rainer Glöckler, ten23 health<br/>Ralf Wagner, Optima pharma</i>  | Disposable Isolator and Robotic Input, Why Not?<br><i>Frank Pavan, GTP Nano</i>  | To PUPSIT or not to PUPSIT? – Science-based Considerations for a risk-based Approach<br><i>Robert G. Schwarz, FH Campus, Vienna</i>  | Visual Inspection<br><i>Jean-François Decoster, UCB</i>   | Implementation of Pharma 4.0 at the German CDMO PSM GmbH<br><i>Thorsten Häfner, PSM<br/>Julian Petersen, groninger &amp; co</i>   | Case Study Minapharm: Design of a HPAPI Biomanufacturing Facility<br><i>Dr Morcos Loka, Minapharm</i>   | Exceptional Provision of AT(I)MPs affected by OOS Results<br><i>Dr Rüdiger Alt, Novartis</i>   | 13:15 h   |         |  |         |
| 13:30 h |  |  |  |   |   |   |  | 13:30 h   |         |  |         |
| 13:45 h |  |  |  |   |   |   |  | 13:45 h   |         |  |         |
| 14:00 h | Relocation of a Capping Machine to an Existing Production Line and Insertion of an Automatic Vial Inspection (AVI)<br><i>Christoph Möller, Burgwedel Biotech (MSD)<br/>Lizar Duhoki, Chemgineering</i> | <b>Live Demos</b><br><i>Optima pharma<br/>MK Versuchsanlagen<br/>Stäubli<br/>Steriline</i>   | Podium Discussion on PUPSIT  | Silicone-free Primary Packaging Materials in Filling & Stopper Process Development – Challenges & Opportunities<br><i>Manuel Grund, Roche Diagnostics</i> | Are Digitalisation and Artificial Intelligence a Double-Edged Sword in Pharma and Healthcare?<br><i>Marco Reiss, Paul-Ehrlich-Institut</i>                                | Case Study Merz: Production of sterile & highly potent Products<br><i>Fred Wulfgramm, Merz<br/>Julian Petersen, groninger &amp; co<br/>Frank Lehman, Skan</i> | Metabolic Sensing and AI Control to improve Quality of Cell Therapy Manufacturing and potentially enable Release by Exception<br><i>Noam Bercovich, ADVA Biotechnology</i> | 14:00 h   |         |  |         |
| 14:15 h |  |  |  |   |   |   |  | 14:15 h   |         |  |         |
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| 14:45 h | Break  |  |  |   |   |   |  | 14:45 h   |         |  |         |
| 15:00 h |  |  |  |   |   |   |  | 15:00 h   |         |  |         |
| 15:15 h | Fast Track Tech Transfer – Experience & Best Practices: Aseptic Filling & Lyo CSL Behring Project<br><i>Steffen Mörlner, CSL Behring</i>   | New Methods to develop Pharma Automation and Robotic Solutions in Warp Speed<br><i>Milad Jami, Novo Nordisk<br/>Julien Lora, Stäubli</i>   | Podium Discussion on PUPSIT  | High speed Syringe Filling Line for Oncological Drugs – Challenges & Solutions<br><i>Radek Fialka, Oncomed<br/>Klaus Ullherr, Syntegon</i>                | AI Supported Intervention Detection and Classification in the Aseptic Core<br><i>Christoph Köth, Fresenius Kabi Austria</i>   | Handling of Solids with Single-Use Systems in the chemical Synthesis of highly active Substances<br><i>Dr Rainer Nicolai, F. Hoffmann-La Roche</i>            | Establishment of Quality Management System (QMS) for Cell Therapies<br><i>Erik Steffensen, Novo Nordisk</i>  | 15:15 h   |         |  |         |
| 15:30 h |  |  |  |   |   |   |  | 15:30 h   |         |  |         |
| 15:45 h |  |  |  |   |   |   |  | 15:45 h   |         |  |         |
| 16:00 h | Discussion   | Fill&Finish Machine for Cell&Gene Therapy: From Requirements to Concept and Realization<br><i>Alexandre Daune, UCB<br/>Matteo Tagliabue, Steriline</i>                             | Discussion   | Device Assembling and Control Processes for Auto Injectors<br><i>Susanne Hall, Vetter Pharma-Fertigung</i>  | Discussion  | Discussion  | New Approach for assessing Dust-Retention Performance of high-containment Systems<br><i>Dr Andreas Flückiger, formerly F. Hoffmann-La Roche</i>                            | The Assessment of Process Equipment Related Leachables in Cell and Gene Therapies<br><i>Dr Armin Hauk, Sartorius Stedim Biotech</i> | 16:00 h |  |         |
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