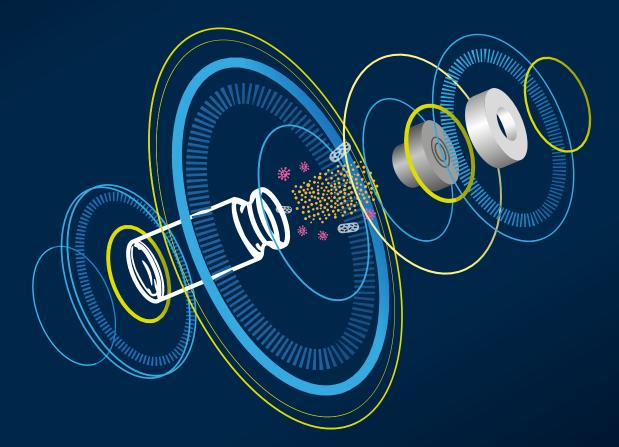


2019 PDA EUROPE **Parenteral Packaging** Interaction of Product, Package, and Process



19-20 MARCH 2019

VENICE, ITALY EXHIBITION: 19-20 MARCH EDUCATION & TRAINING: 21-22 MARCH IG MEETINGS: 18 + 21 MARCH



REGISTER BEFORE 3 FEBRUARY AND SAVE UP TO €200!

WELCOME TO VENICE

SCHEDULE AT A GLANCE

-

18 March	10:00 - 16:30	Pre-filled Syringes	Interest Group Meeting
18 March	19:30 - 22:00	Welcome Party	Supported by Stevanato Group
19 March	9:00 - 18:00	Parenteral Packaging	Conference, Exhibition
19 March	19:00 - 21:30	Networking Event	
20 March	9:00 - 16:30	Parenteral Packaging	Conference, Exhibition
21 March	10:00 - 17:00	Packaging Science	Interest Group Meeting
21 March	9:00 - 17:00	Container Closure Development	Training Course
21 March 22 March	9:00 - 17:45 9:00 - 15:30	Test-Methods for Pre-filled Syringe Systems	Training Course
21 March 22 March	9:00 - 17:30 8:30 - 16:30	Container Closure Integrity Testing	Workshop
21 March 22 March	9:00 - 18:00 9:00 - 16:30	Extractables & Leachables	Training Course

For latest information, please visit: pda.org/EU/ParPack2019

Pre-filled Syringes

Focus Topic: Time-to-Market Novel Approaches to Supporting the Patient by Reducing Pre-Filled Syringe Development Timelines

Dear Colleagues,

Time-to-market is gaining in importance, especially since the industry wants to support patients with new drugs as quickly as possible. Unfortunately, the costs associated with new injectable drug products continue to increase over time. Minimizing development time also presents challenges. In fact, every day added to the development plan actually diminishes the value for licensing or selling of the drug product due to reductions in potential revenue and market exclusivity.

The goal of this meeting is to discuss these challenges with a primary focus on:

- Approaches and trends in drug development with the potential to rapidly support patients with new drugs.
- Time-to-market packaging platforms, new technologies, regulation strategies, clinical and commercial fill & finish, secondary packaging, etc.
- Case studies from a pharma/biotech supplier using tools, platforms or methods, supplier solutions, process and technology infrastructure, and development strategies that demonstrate a reduction in time-to-market.

Take advantage of the open forum design approach offered by this focused Interest Group meeting. Hear presentations from leading experts and interact and discuss your experiences with colleagues in an open atmosphere. Share your opinion and enlarge your knowledge in an interactive format discussion. Receive the latest information about activities of the Interest Group/Pre-filled Syringes.



Brigitte Reutter-Haerle, Vetter Pharma International GmbH, Interest Group Leader Europe

Brigitte Reutter-Haerle is the Vice President of Marketing / Corporate Communications for Vetter, a leading contract development and manufacturing organization that serves the global pharma/biotech industry. She was called to this new position in September 2014 and is responsible for the company's international marketing activities, product and service management as well as HR marketing and internal communication. Between 2004 and 2014, she held the position of Director Corporate Marketing. In 2009, she led the communications program for Vetter's U.S. expansion. Ms. Reutter-Haerle joined Vetter in 1996, serving in the company's sales and marketing function, and transferred to corporate marketing three years later. She

began her career in 1983, holding various positions in the sales organizations of firms including Hilton International and TNT Express Worldwide. Ms. Reutter-Haerle earned a B.A. and a degree in Business Administration from Baden-Wuerttemberg Cooperative State University. She has been leading the Pre-filled Syringe Interest Group/Europe of the Parenteral Drug Association since 2007.

18. Jan 2019

Monday, 18 March 2019

10:00 Welcome and Introduction

Falk Klar, *PDA Europe* Brigitte Reutter-Haerle, *Vetter*

Moderator: Brigitte Reutter-Haerle, Vetter

Moderator: Frank Bamberg, Roche

Innovations to Shorten Time-to-Market

Due to reductions in potential revenue and market exclusivity, every day added to the development plan diminishes the value for licensing or selling of the drug product. In this session, leading experts discuss platform technologies as well as new technologies and methods that demonstrate how a reduction in time-to-market can be achieved.

10:10	Accelerating Time-to-Market of Smart Devices: How to Effectively Upgrade Self-Injection Device Platforms into Integrated Cloud-Connected Systems	Andreas Schneider, Ypsomed
10:35	Switch from High Speed Line to Flexible Tabletop and/or Manual Assembly in Packaging with the Goal to Shorten Time-to-Market	Guido Drees, Roche
11:00	Coffee Break, Poster Session & Exhibition	
11:30	Root Cause Investigation on a Drug Formulation Interacting with Silicone Oil Resulting in Extended Injection Time Using an Auto-injector Device	Robert Hormes, <i>Novartis</i>
12:00	Lunch Break, Poster Session & Exhibition	

Interactive Session - Innovations to Shorten Time-to-Market

After parting in three groups the participants will enter a structured conversational process regarding Risks and Challenges, Technical Solutions and Partnerships and Cooperation in three rounds. Facilitated by a table moderator, each group is introduced to the topic and will have a set amount of time to discuss and gather key points on each topic. As each group will build on the knowledge already gathered, each round will be shorter than the previous one. Inspired by the method developed by

Juanita Brown und David Isaacs this session will result in conclusive take home messages on each topic discussed.

13:00	Introduction		Frank Bamberg, Roche
13:10	Transition to 3 Groups		
	Risks and Challenges Moderator: Michael Betz, <i>Roche</i>	Technical Solutions Moderator: Gabriele Peron, <i>Stevanato Group</i>	Partnerships and Cooperation Moderator: Andreas Schneider, <i>Ypsomed</i>
13:15	Round 1		
13:35	Round 2		
13:50	Round 3		
14:00	Summary		
14:30	Coffee Break, Poster Session &	Exhibition	

Novel Approaches & Practical Implementations Moderato		Moderator:	Philippe Lauwers, Terumo
15:00	Track and Trace of Primary Packaging Containers – A Discussion on the Fill & Finish Operations for Single Co	ntainers	Bernd Zeiss, Gerresheimer Riccardo Marcon, Stevanato Group Diana Loeber, Schott Chi Yuen Liu, Johnson & Johnson
15:25	Modular Robotic Inspection - Fully Automated Inspection with an Autonomous Island Mini-Plant		Andrea Sardella, <i>Stevanato Group</i> Michael Betz, <i>Roche</i>
15:50	Roadmap to Create a Global Presence in Aseptic Injectabl Fill & Finish from a Development Capability to Full Scale Commercial Expansion: A Corden Pharma Case History	le	Silvia Lissoni, Corden Pharma
16:15	Summary and Q&A		
16:30	Conclusion of Interest Group Meeting		Brigitte Reutter-Haerle, Vetter

Date & Time: Monday, 18 March 2019 19:30-22:00 Location: Hilton Molino Stucky

Dress Code: Business Casual





Admission is included in the Conference Fee. Please make sure you are registered! Thanks to Stevanato Group for supporting this special event!



Dear Colleagues,

PDA Europe is pleased to present the **9th Parenteral Packaging Conference**, returning to Venice for the second time. This conference has become highly regarded and this year's edition will continue the series of exceptional presentations and discussions. Industry leaders and technical experts from pharma and supplier companies along with regulators will cover many aspects of the drug product-package interface.

Primary packaging of a parenteral pharmaceutical drug product should be designed, processed and manufactured, to ensure efficacy and safety of the patients.

Biopharmaceuticals are a standard therapeutic modality to treat severe diseases; however, they require special considerations for processing and packaging.

SCIENTIFIC PROGRAM PLANNING COMMITTEE Roger Asselta, Chair, Genesis Packaging Technologies Roman Mathaes, Chair, Lonza Bettine Boltres, West William Dierick, Terumo Derek Duncan, LIGHTHOUSE Nicola Favaro, Stazione Sperimentale del Vetro Claudia Heinl, Schott Renaud Janssen, Datwyler Robert Ovadia, Genentech Galen Huaiqiu Shi, Eli Lilly Michael Spallek, Rommelag Daniel Wagner, Sanofi Klaus Wuchner, Janssen J&J Daniele Zuccato, Nuova OMPI – Stevanato Group Joerg Zuercher, Bayer Brandon Zurawlow, Containsure Solutions Kerstin Wilken, PDA Europe Teresa Schubach, PDA Europe, Manager Programs & Events Developments in packaging materials such as innovations in glass and their characteristics regarding interactions with the drug product formulation and end-user preferences will be discussed. Case studies of the implementation of new guidelines, for example **Annex 1 of the European GMP Guideline** and **USP 800** along with some of the latest developments in packaging materials & components and the role of **Container Closure Integrity (CCI)** in productpackage development, assembly and processing will be presented.

The conference program is intended to initiate and support discussion and professional exchange through a diversity of scientific presentations, workshops, interest group meetings, training courses, joint dinners and networking events.

We look forward to you joining us in amazing Venice!

Sincerely, The Chairs



Roger Asselta, Conference Chair, Genesis Packaging Technologies



Roman Mathaes, PhD, Conference Chair, Lonza

18. Jan 2019

Tuesday, 19 March 2019

9:00 Welcome and Introduction

Kerstin Wilken, *PDA Europe* Roger Asselta, *Genesis Packaging Technologies* Roman Mathaes, *Lonza*

	OPENING PLEN	ARY	
9:15	Keynote: The Evolution of Parenteral Drug Substanc Drug Product Primary Containers	e and	Karthik Vaideeswaran, Eli Lilly
Session 1:	Packaging Considerations for Cold Storage	Moderator:	Derek Duncan, LIGHTHOUSE
9:45	Primary Container Design for Drug Substance at Cryo- and Cold Temperatures		Ronald Iacocca, Eli Lilly
10:15	Q&A, Discussion		
10:45	Coffee Break, Poster Session & Exhibition		
11:15	Nonlinear Finite Element Simulation of Frozen Conta	iner Closure Systems	Holger Roehl, Roche
11:45	Case Study: Ensuring Container Closure Integrity of Gene Therapy Cancer Vaccine in Need of Deep Cold S		Josine Wilmer, LIGHTHOUSE
12:15	Q&A, Discussion		
12:45	Lunch Break, Poster Session & Exhibition		
	PARALLEL	TRACKS	
Session 2:	TRACK A	TR	АСК В
	Glass Moderator: Claudia Heinl, SCHOTT		g in the Digital Age ettine Boltres, <i>WEST</i>
14:00	Delamination in Glass Containers for Pharmaceu- tical Application: The International Commission	- Identification and Quantification: Multisensor Drone Technology Fabian Thygs, Janssen J&J	
	on Glass (ICG) Technical Committee TC12 Massimo Guglielmi, University of Padova		
14:20	on Glass (ICG) Technical Committee TC12	Fabian Thy Comprehensive Conta Stack-up Simulatio Dig	
14:20 14:40	on Glass (ICG) Technical Committee TC12 Massimo Guglielmi, University of Padova Innovations in Glass Production	Fabian Thy Comprehensive Conta Stack-up Simulatio Dig Anthony Testing and Comp the Study of	rgs, Janssen J&J niner Closure System (CCS) n and Optimization in the gital Age
	on Glass (ICG) Technical Committee TC12 Massimo Guglielmi, University of Padova Innovations in Glass Production Robert Hayes, Gerresheimer A Case Study for Mitigation of Visual Particulate in Glass Ready-to-Use Vials Anthony Vico, Stevanato Group	Fabian Thy Comprehensive Conta Stack-up Simulatio Dig Anthony Testing and Comp the Study of Daniela P. Boso Quantifying the Via Micro-Comp	rgs, Janssen J&J ainer Closure System (CCS) n and Optimization in the gital Age / Bucci, WEST putational Modelling in Cartridge Failure
14:40	on Glass (ICG) Technical Committee TC12 Massimo Guglielmi, University of Padova Innovations in Glass Production Robert Hayes, Gerresheimer A Case Study for Mitigation of Visual Particulate in Glass Ready-to-Use Vials Anthony Vico, Stevanato Group Elizabeth Jane Pavlik, MSD New Parenteral Glass Packaging Option May Lead to Reduction in Particulates and Ultimately Drug Shortages	Fabian Thy Comprehensive Conta Stack-up Simulation Dig Anthony Testing and Comp the Study of Daniela P. Boso Quantifying the Via Micro-Comp Robert Ov	rgs, Janssen J&J ainer Closure System (CCS) in and Optimization in the gital Age / Bucci, WEST putational Modelling in Cartridge Failure , University of Padova

PDA IS PROUD TO INVITE YOU TO A VERY SPECIAL NETWORKING EVENT

Join us for a Fabulous Evening and Dinner on a Denetian Galeon



Date & Time: 19 March 2019, 18:50

Meeting Point: Hotel Lobby, Hilton Molino Stucky

Boat Depature: 19:00

21:30 Return to the Hilton Hotel Molino Stucky

Dress Code: Casual

Please confirm your attendance at the PDA registration desk.

CONFERENCE AGENDA

Session 3:	TRACK A	TRACK B
	Considerations on Container Closure Integrity Moderator: Roger Asselta, Genesis Packaging Technologies	Chemical Interactions of Drug Product and Primary Packaging Moderator: Galen Shi, <i>Eli Lilly</i>
16:10	Balancing Container Closure Integrity and Aesthetics for Robust Primary Packaging Yusuf Oni, Bristol-Myers Squibb	The Advantages of Considering Primary Container Systems as an Excipient During Formulation Development Cathy Zhao, WEST
16:40	Container Closure Integrity Testing – Method Development for Freeze- Dried Products Using Laser-based Headspace Oxygen Analysis Soren Dahl, Novo Nordisk	Comparative Leachable Study for Glass Vials to Demonstrate the Impact of Low Fill Volume Volker Rupertus, SCHOTT
17:10	Interlaboratory Study of Container Closure Integrity He-leak Test Method - Comparison of Different Types of Artificial Leaks Klaus Wuchner, Janssen J&J Daniel Wagner, Sanofi	Interactions of Leachables with Proteins: Combined In-Silico and Experimental Model to Monitor the Potential Impact on Quality and Safety of Therapeutic Proteins Piet Christiaens, Nelson Labs
17:40	Q&A, Discussion	Q&A, Discussion
18:00	End of Day 1 and Networking Event	

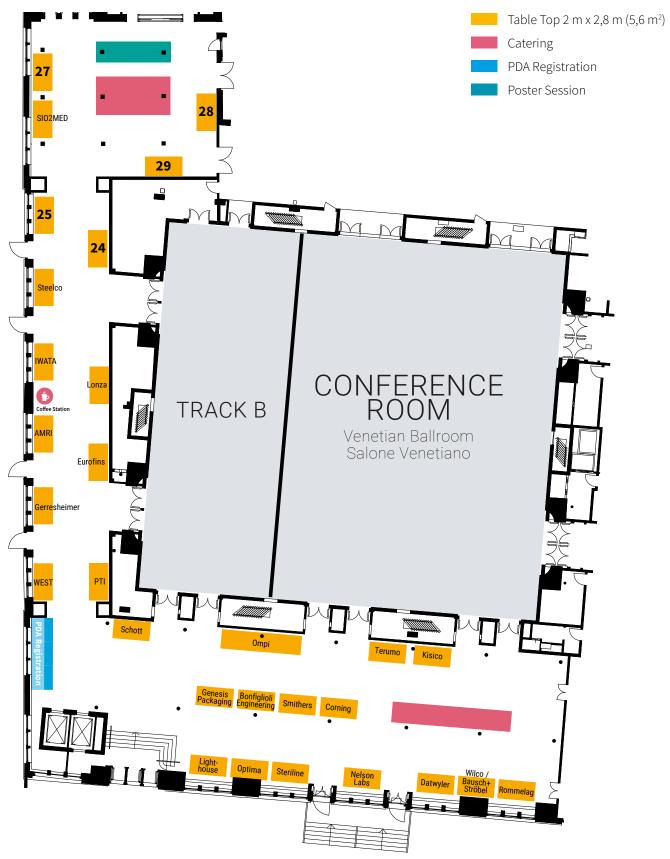
Draft Agenda subject to change, all speakers pending confirmation

Wednesday, 20 March 2019				
9:00	Keynote: Getting Ready for Annex1 and USP 800	Roman Mat Hanns-Chris	haes, <i>Lonza</i> stian Mahler, <i>Lonza</i>	
Session 4	Regulatory Updates	Moderator:	Daniele Zuccato, Stevanato Group	
9:30	Chinese Regulatory Update		Yonghua Gao, CNPPA	
10:00	USP Chapter Changes on Glass and Rubber		Bettine Boltres, WEST Renaud Janssen, Datwyler	
10:30	ISO Standard Series ISO 11040 on Pre-filled Syringes, Updates o ISO Technical Committees TC76 and TC84	n	Horst Koller, HK Packaging	
11:00	Q&A, Discussion			
11:30	Coffee Break, Poster Session & Exhibition			

PARALLEL TRACKS				
Session 5:	TRACK A	TR.	АСК В	
	Challenges in Development & Manufacture Moderator: Renaud Janssen, Datwyler		on of Packaging erg Zuercher, <i>Bayer</i>	
12:00	A Quality by Design Approach Toward Manufacturing of Elastomeric Components for Parenteral Packaging Applications Rahul Thakar, Datwyler	Process	/H2O2 Sterilization per ISO14937 attila, STERIS	
12:25	Multi-Chamber IV Bag Film Development William Roberts, Sealed Air Corporation	Elastomeric Compone	ization Techniques for ents for Primary Packaging ngen, Datwyler	
12:50	Q&A, Discussion	Q&A, [viscussion	
13:00	Lunch Break, Poster Session & Exhibition			
CLOSING PLENARY				
Session 6	Primary Packaging Choices and Their Technical Imp	bact Moderator:	Roman Mathaes, Lonza	
14:00	Factors Influencing Quality of Biopharmaceuticals in Pre-filled Syringes		Susumu Uchiyama, Osaka University	
14:30	Lyophilization in Pre-filled Syringes: Evaluating the Influence of Primary Container Mater and Loading Device	ial	Timothy Dutill, Lyophilization Technologies Kevin Constable, Terumo	
15:00	Coffee Break, Poster Session & Exhibition			
15:30	Quality of Components & Containers – Design, Materials, New Technologies		Robert Hormes, <i>Novartis</i>	
16:00	Q&A, Discussion			
16:30	End of Conference & Farewell		Roger Asselta, Genesis Packaging Technologies Roman Mathaes, Lonza Kerstin Wilken, PDA Europe	

Draft Agenda subject to change, all speakers pending confirmation

FLOOR PLAN



TO EXHIBIT

PDA meetings and conferences are a great opportunity for your company to gain on-site exposure in front of highly-qualified, upper-level professionals in the pharmaceutical and biopharmaceutical industry. Exhibition and Sponsorship Opportunities are available. A basic exhibition package for this event is priced **1.995 Euro net (table-top).** For more information please contact **gomez@pda.org**



2019 PDA EUROPE The Universe of Pre-filled Syringes and Injection Devices

Advancing Drug Delivery Systems to Improve Patients' Lives



22-23 OCTOBER 2019 GOTHENBURG, SWEDEN PRE-CONFERENCE WORKSHOPS: 21 OCTOBER CONFERENCE & EXHIBITION: 22-23 OCTOBER EDUCATION & TRAINING: 24-25 OCTOBER MARK YOUR CALENDAR



PDA Scientific Poster Presentation Exhibit your Work



To join our scientific poster session, please send a printable PDF file according to the following specifications:

Canvas size to work on:

85 cm x 120 cm (33,465 x 47,244 in) – portrait format Slug / Bleed: 2 mm (0,079 in)

Images:

120dpi (low) - 150dpi (high) depending on size.All Images Color Profile ISO Coated v2 (ECI)

Document size of the PDF:

85 cm x 206 cm (33,465 x 81,102 in) – portrait format Slug / Bleed: 2 mm (0,079 in)

All posters will be printed by PDA and displayed as part of the exhibition.

Poster Display is included in the regular conference registration fee. Please send your file and poster title to Nadjeschda Gomez-Stahl **gomez@pda.org.**

Packaging Science

Focus Topic: CCI at Deep Cold Temperatures

Dear Colleagues,

Based on feedback from industry and the many open questions, our focus topic for 2019 will be **CCI at Deep Cold Temperatures**.

Please be invited to contribute to this open forum and discuss latest approaches, exchange experience, and share technology updates on primary packaging challenges related to:

- Cell and Gene Therapy Market
- CAR-T Therapy
- Regulatory challenges for CCI at cold temperatures
- · Challenges for different materials at cold temperatures
- Measurement techniques

We will have experts to the mentioned topics and would like to highlight this topic from many different angles.

Take advantage of the open forum design offered by the small Interest Group meeting approach. Hear presentations from renowned international experts, interact and discuss your experiences with colleagues in round table discussions and forums during the meeting.



Roger Asselta, Genesis Packaging Technologies

Roger Asselta is Vice President of Technical Affairs at Genesis Packaging Technologies. He has over 25 years of experience in pharmaceutical packaging, working for firms producing glass containers, plastic containers and closures, elastomeric closures and seals, and sealing technology equipment. This year, he is co-chair of the PDA Parenteral Packaging conference.



Bettine Boltres, PhD, WEST

Bettine Boltres has 8 years' experience in the primary packaging industry. As Technical Account Manager, Europe, for WEST Pharmaceutical Systems she is supporting pharmaceutical companies in assessing the scientific challenges of elastomers as primary packaging components, complementing her 7 years' work as Product Manager for Schott Pharmaceutical Tubing, where she provided scientific consulting for glass primary packaging. This year, she is member of the Program Planning Committee of the PDA Parenteral Packaging conference.



Derek Duncan, PhD, LIGHTHOUSE

Derek Duncan, PhD, began his career as a Research Scientist at the Dutch Institute for Atomic & Molecular Physics in Amsterdam. He then moved into industry holding various Product & Application Development positions. is responsible for developing applications for pharmaceutical process monitoring and finished product inspection for Lighthouse Instruments. He is based in Amsterdam. This year, he is member of the Program Planning Committee of the PDA Parenteral Packaging conference.

INTEREST GROUP MEETING AGENDA

18. Jan 2019

Thursday, 21 March 2019

10:00 Welcome and Introduction

Bettine Boltres, WEST Derek Duncan, LIGHTHOUSE Roger Asselta, Genesis Packaging Technologies

Keynote Chemical and Physical Properties of Different Packaging Materials

Bettine Boltres, WEST Otto Schubert, Rommelag

Cell & Gene Therapeutics

Moderator: Derek Duncan, LIGHTHOUSE

One of the areas in which there is a push for new packaging options is in the area of cell and gene therapies. These products require deep cold storage ranging from -80 °C to cryogenic temperatures. Initial studies have shown that these low temperatures pose challenges to the traditional package for injectables—the rubber-stoppered glass vial. This can introduce some risk to container closure integrity. Current solutions and the future outlook will be discussed in this session.

	Polymer Container System for Storage of Cell Thera Cryogenic Temperature	py Products at Nicolas Brandes, WEST	
	 Introduction on Cell & Gene Therapeutics - Challeng What requirements need to be met when packagi cell and gene therapeutics? What solutions are currently available and how do container react in deep cold temperatures? Which challenges still need to be overcome? 	ng and storing	
11:30	Coffee Break, Poster Session & Exhibition		
Materials	and their Requirements for Deep Cold Storage	Moderator: Bettine Boltres, WEST	
sion will st on, we will	understand why and how different materials behave diff art with an in-depth dive into the relevant physical and ch get inside information from industry into the challenges t ially identify those areas that still need to be addressed.	nemical properties of glass, rubber and plastics. Further	
12:00	Vial Solutions: Chris Folta, Janssen J&J Challenges for Glass and Stoppers in Deep Cold Temperatures		
	Container Closure Systems at Deep Cold Storage	Holger Roehl, Roche	
	Discussion: Current Materials Used in Deep Cold Te	mperatures, the Challenges and a Future Outlook	
13:30	Lunch Break, Poster Session & Exhibition		
Roundtab	le Discussions – Current Packaging Options and Chal	lenges Moderator: Roger Asselta, Genesis Packaging Technologies	
14:30	Cell & Gene Therapies	Requirements for Different Materials	
	Requirements for Different Materials	Cell & Gene Therapies	
15:00	Coffee Break, Poster Session & Exhibition		
	Discussion on Hot Topics from the Conference		
17:00	Conclusion and Farewell		

Container Closure Development

Overview

The course will give an overview on how to develop a container closure system for parenteral products. Starting with setting up a product profile of the final product container, all aspects will be covered, like selection of materials, assessment of container closure systems, specification and documentation of components and entire systems. In addition, current hot topics such as glass delamination and container closure integrity testing will be discussed.

For all topics of the agenda presentations will be given. The participants are invited to add own experience, ask questions and offer issues to be discussed within the group and/or with the trainer. The intention is to work in an open workshop-like atmosphere.

Who Should Attend

- Scientists in Drug Product Development
- Scientists/ Engineers in Packaging Development
- Regulatory Affairs Experts

Learning Objectives

- Set-up of a target product profile of a container closure system
- Select appropriate container closure materials, components, and systems
- Apply the appropriate regulations and standards to container closure systems for parenteral formulations
- Prepare a development plan of a container closure systems from the early development until market phase
- Specify container closure systems regarding technical aspects and regulatory requirements
- · Understand compendial requirements and quality as well as technical standards regarding
- · container closure components and systems



Jörg Zürcher, Senior Scientist, Bayer

Jörg Zürcher is a pharmacist by education. After his studies and PhD thesis at the Free University in Berlin, he started his career in the pharmaceutical industry 1990 with the former Schering AG. He is responsible for the development of container closure systems and application devices at Bayer HealthCare and has more than 25 years' experience in that field. His current focus is the development of systems/devices for liquid and parenteral as well as ophthalmic dosage forms.

Thursd	ay, 21 March 2019	9:00 - 17:00
09:00	Welcome and Introduction	
09:30	 Definitions Compendial definition Functional definition Components vs CCS Description of options Materials 	
09:45	 Regulatory Background Ph.Eur. USP JP FDA Guideline EU Directive Relevant eCTD sections 	
10:45	Coffee Break	
11:15	 Development of Container Closure Systems Set-up of target profile Packaging materials Modification of materials Extractables & Leachables (E&L) testing Permeability Light transmission Processability Functional testing Container closure integrity (CCI) Shipping assessment Combination products 	
12:30	Lunch Break	
13:30	Workshop: Develop Your CCS	
15:00	Coffee Break	
15:30	Presentation of Workshop Results	
16:00	 Setting of Specifications / Submission Documentation Technical/ Quality specification Regulatory specification Technical drawing Regulatory drawing DMF for US submission 	
16:30	Wrap-up and Final Q&A	
17:00	End of Course	

Test-Methods for Pre-filled Syringe Systems

Overview

The course will be an interactive lecture around Pre-filled Syringe Systems including ISO compliance testing. The participants will benefit from first hand information of both lecture leaders based on practical experience. The lecture includes the life cycle of a PFS from the idea to finished marketed product.

Who Should Attend

- The course is designed specifically for those who are involved or interested in the development, manufacturing and QC-testing of a Pre-filled Syringe System
- Engineers and Managers in Device Development and all other technical functions surrounding syringe systems
- Quality Personal / Regulatory Personal
- Clinical and commercial Drug Product Manufacturing

Learning Objectives

- Materials used for PFS Systems
- Luer Cone and Luer Lock Compliance Testing
- · Requirements for the empty sterile sub-assembled syringe ready for filling
- Test Methods for Drug Product Filled Syringes
- PFS used in Delivery Systems

Faculty



Horst Koller, CEO, HK Packaging Consulting

Prior to becoming a consultant, Horst worked for Abbott Diagnostic and SCHOTT Pharmaceutical Packaging with a total of more than 20 years industry experience. His consulting company is focusing on Technical, Regulatory and QM-Support around Primary and Secondary Packaging Systems including Medical Devices. He is an active member within the technical ISO Committees TC76 and TC84 as well as an active speaker on international conferences. He holds an Engineering degree in Biotechnology from the University of Applied Sciences in Mannheim / Germany.

:00	Welcome	9:00	Requirements for the Empty Sterile Sub- assembled Syringes Ready for Filling- Part 1• Cone Breakage / Flange Breakage / Leakage
):15	Introduction to Syringe Systems and Components	10:15	Coffee Break
0.30	Coffee Break	10:45	Requirements for the Empty Sterile Sub- assembled Syringes Ready for Filling- Part 1 (cont.
11:00	Regulatory Requirements of Finished Pre-filled Syringes – Part 1 • System Characterization / Physical		Cone Breakage / Flange Breakage / Closure Testing
	Characterization	11:45	Requirements for the Empty Sterile Sub-
12:30	Lunch Break		 assembled Syringes Ready for Filling- Part 2 Break Loose and Gliding Force / Needle Testing / Particulate Matter
3:30	Regulatory Requirements of Finished Pre-filled Syringes – Part 2	13:15	Lunch Break
	Pharmaceutical Characterization		
5:30	Coffee Break	14:15	Additional Testing for Use in Delivery Devices
		15:15	Wrap-up of Day 2
6:00	Luer cone and Luer lock Compliance Testing for Glass and Polymer Syringes	15:30	End of Training Course
7:30	Wrap-up of Day 1		

Container Closure Integrity Testing

Overview

This workshop focuses on theoretical and practical fundamentals of various CCI testing technologies and provides a systematic approach to apply these testing methods for CCI verification throughout drug product lifecycle. The Workshop will enable the participants to implement CCI testing strategies to ensure adequate drug product protection and be compliant with relevant regulatory and compendia requirements. In this Workshop, participants gain critical problem solving skills through:

- interactive discussions with a panel of cross-functional technical experts consisting of CCI testing laboratory experts, testing instrument suppliers/manufacturers, and pharmaceutical packaging development engineers
- · hands-on testing training on the newest innovations and state-of-the-art instruments
- real-world case studies

Who Should Attend

- Parenteral drug packaging engineers and formulation scientists
- · Laboratory scientific staff and managers
- Parenteral manufacturing staff
- Sterility Quality Assurance
- Regulatory affair scientists
- Pharmaceutical packaging component manufacturing staff

Learning Objectives

This workshop utilizes lectures, case studies, and interactive hands-on training on testing instruments to provide insight into the latest developments of Container Closure Integrity (CCI) Testing, with focus on achieving the following key objectives:

- Understanding up-to-date regulatory and pharmacopeia requirements on CCI.
- Defining CCI requirements for various container and drug product types using a risk-based approach.
- Explaining working principles of various CCI testing techniques and their practical applications, with focus on deterministic methods such as tracer gas

Presentation of Technology, Instruments Demo and Hands-on Training kindly supported by several suppliers of Container Closure Integrity testing systems and services (detailed supplier update coming soon).

detection (e.g. helium leak detection), electrical conductivity and capacitance (HVLD), vacuum decay leak detection, laser-based gas headspace analysis, mass extraction leak test.

- Selecting and applying appropriate testing methods for both laboratory and in-process testing to formulate comprehensive package integrity verification profiles.
- Defining CCI testing method development and validation approach and best practices.
- Avoiding common issues and pitfalls in CCI testing applications.



Lei Li, Ph.D, Associate Engineer Advisor Delivery and Device R&D, Eli Lilly

Lei Li currently serves as an engineer advisor at Delivery and Device R&D, Eli Lilly and Company. Lei has 9 years of experience in pharmaceutical and medical device industry, with focus on developing API and drug product packaging in support of clinical development and product commercialization, and establishing cold-chain distribution for biologic products. His current responsibilities include developing package integrity verification profiles for Lilly's diverse pipeline portfolio, developing and validating CCI testing methods, and supporting

commercial control strategy development for CCI verification throughout drug product and device life cycle. He is a frequent speaker at PDA conferences and author of peer-reviewed articles and book chapters on CCI test methods. Lei Li received his Ph. D. in Analytical Chemistry from West Virginia University; prior to joining Eli Lilly, he worked at GE Plastics as an analytical and material scientist.

Thursday, 21 March 2019 9:00 - 17:30

9:00 Welcome and Introduction

9:15 Regulatory Requirements: CCI Introduction, Regulatory Requirements, and Industry Trends

9:45 CCI Assurance throughout Product Lifecycle

- Testing requirement definition risk based approach
- CCI Profile & Testing strategy development

10:30 Coffee Break

11:00 Introduction to Group Exercise #1: Product life cycle testing and method selection

11:15 CCI Test Methods: Fundamentals and Overview

- CCI defects and commonly used positive controls
- "Sizing" CCI defects using gas flow dynamics
- Evolution of CCI testing technology: liquid flow, gas flow, electron flow (electric current)

12:00 Lunch Break

- 13:00 CCI Test Methods: Fundamentals and Overview (continued)
 - Deterministic vs probabilistic definitions
 - Physicochemical methods vs microbiological methods: differences and correlations
 - Microbial and Dye Ingress Testing Basics
 - Seal Quality Testing
 - Introduction group exercise #2: Method Characteristics

14:00 Advanced CCI Testing Technologies

- Vacuum and pressure decay
- Mass Extraction
- Headspace analysis
- HVLD

15:00 Coffee Break

15:30 CCI Testing Technologies (continued)

- Tracer gas (helium leak detection)
- Seal Integrity method example (residual seal force)

16:00 Current Topics: Industry Best-Practices and Novel Technologies

- 1. AMI Optical emission spectroscopy for CCI testing
- 2. API Container Testing using HeLD; Review Helium leak detection video
- 17:00 Group Exercise #2: Method Characteristics • review, discussion Day 1 Review, Q&A
- 17:30 End of Day 1

Friday, 22 March 2019 8:30 - 16:30

- 8:30 Application Case Studies Section 1
 - Vacuum and pressure decay
 - Mass Extraction
- 9:10 Hands-on Training
- 9:50 Application Case Studies Section 2
 - Headspace analysis
 - HVLD

10:30 Coffee Break

11:00 Application Case Studies – Section 3

- Tracer gas (helium leak detection)
- SQT (Residual Seal Force)

11:40 Instrument Demo and Hands-on Training

12:40 Lunch Break

13:40 Development and Validation of Integrity Test Methods

- Method development best practices
- Method validation strategy
- Pitfalls and solutions

14:30 Approaches to CCI Testing Method Selection

- Method selection considerations
- Class discussion examples

15:00 Coffee Break

- 15:30 Group Exercise #1: Method Selection Review, Discussion, Q&A
- 16:00 Class Discussion, Recognition, Certification
- 16:30 End of Workshop



Allison L. Dill, PhD, Eli Lilly and Company

Allison Dill, Ph.D. is a Senior Research Scientist in Delivery and Device Connected Solutions at Eli Lilly and Company, Indianapolis, IN. She received a BS in Chemistry and Biology from Indiana University, and worked for 4 years as an analytical chemist in Product Research and Development before attending graduate school. She received her Ph.D. in Analytical Chemistry from Purdue University, studying imaging mass spectrometry for disease state characterization. While at Lilly, she has been responsible for the analytical control strategy of many solid oral

and parenteral dosage forms and has contributed to several regulatory submissions. Her recent contributions have focused on enabling the delivery of the early phase portfolio within a complex global network with responsibility for the analytical control strategy of both the active pharmaceutical ingredient and the drug product. She is now focusing on the CCI strategy for multiple molecules with a concentration in on-line high voltage leak detection for 100% inspection.

Extractables & Leachables

Including: Important Regulatory Updates – Case Study Section: Selection of the most interesting Case Studies, presented over the last 10 years!

Overview

When making Parenteral Drug Products, pharmaceutical companies are faced with the need to further investigate the materials that will be in contact with the drug product, either during manufacturing, intermediate storage, storage in its final packaging, or during the delivery of the drug to the patient. While historically, the potential safety issues were the main driver in these kinds of investigations, recently, also quality issues – i.e. for biopharmaceuticals – have become an additional concern.

This workshop will look at "Extractables & Leachables" from many different angles: Definitions, Regulatory, Material & Polymer Science, Analytical E/L Methodologies, Safety Assessments, Study Design for different parenteral primary packaging systems, as well as for injection devices.

Learning Objectives

Upon completion of this workshop, you will be able to:

- Explain in detail the current regulatory requirements for container/closure qualification from an E/L perspective.
- Explain the upcoming changes in regulations, standards and recommendations from PQRI, USP and BPOG and how these changes could impact a future evaluation of a pharmaceutical C/Csystem.
- Understand the materials of construction and their composition – of container closure systems, and how they could impact the safety and quality of a parenteral drug product.
- Put together an evaluation program (review of provided documentation, analytical testing) of different types of parenteral drug product container/closure systems.
- Perform a safety/risk assessment of analytical results, obtained after completion of an E/L study.

Who Should Attend

- Pharmaceutical Packaging and Device Engineers
- Production Engineers, using SU systems
- Regulatory Affairs Officers
- Pharmaceutical R & D Managers
- Analytical Chemists, working on E/L
- Quality Assurance Officers



Dennis Jenke, PhD, Chief Executive Scientist, Triad Scientific Solutions

Dennis Jenke is the Chief Executive Scientist for Triad Scientific Solutions, a provider of science-based solutions to plastic/product compatibility challenges associated with packaging, manufacturing equipment and delivery devices in the pharmaceutical, cosmetic, food and related industries. He was a Distinguished Scientist at Baxter Healthcare Corporation where for more than three decades he lead a team whose primary responsibility includes the assessment of material/product compatibility, specifically with respect to establishing the suitability for use

of packaging systems, manufacturing systems and administration devices for pharmaceutical products (for example, extractables/ leachables and product ingredient binding). He has published extensively in the areas of analytical chemistry, environmental science and material/solution compatibility and serves as an expert reviewer for numerous pharmaceutical and analytical journals. He is the author of the book Compatibility of Pharmaceutical Solutions and Contact Materials; Safety Considerations Associated with Extractables and Leachables and a contributing author to the Leachables and Extractables Handbook. Dennis Jenke is a member of numerous industry groups whose charter is to establish best demonstrated practices in the area of material/solution compatibility.

Thursday, 21 March 2019

Introduction on Extractables & Leachables (E/L)

- ► What is the importance of a good E/L-qualification
- ► Historical cases of leachables, impacting the quality or the safety of a drug product
- ► Regulatory requirements (FDA, EMA...) for primary packaging

Understanding the Materials, Used in the Manufacture of Pharmaceutical Containers & Closures

- ► Types of polymers examples in medical/pharmaceutical use
- ► Understanding the composition of polymers
- ► The issues with glass in parenteral applications

FULL Session on Updates of E/L- Regulations, Standards and Recommendations

- Pharma Packaging:
- ► Preview of the final PQRI Parenteral Drug Product (DPD) & ODP Chemistry group
- ► Update on the most recent developments on the USP <661> chapters
- Devices
- ► Chemical characterization of devices according to ISO 10993-18: What changes are coming up?
- ► Upcoming Revisions of the USP <87> and USP <88>: Where could it go to?
- ► (Bio)Pharmaceutical Manufacturing
- ▶ Where is USP with the update on the USP <661.3> Plastic Manufacturing Components standard

How to Perform a Safety Evaluation – Risk Assessment on Extractables & Leachables

- Toxicology 101
- ► EMA Guideline on Genotoxic Impurities
- ► ICH M7 (DNA reactive Impurities) and its suggested staged approach
- ► The Threshold Concept of PQRI (OINDP and PDP/ODP)
- ► Examples

How to Look at Injection Devices from an E/L Perspective

- Medical device regulations versus pharma packaging
- ► Test selection process for devices: What to do?
- ▶ USP and ISO 10993 series for biocompatibility testing
- ► Case: Injection device



Piet Christiaens, PhD, Scientific Director, Nelson Labs

Piet Christiaens received his Ph.D. from the Analytical Chemistry Department of the University of Leuven (Belgium) in 1991. From 1992 to 1997, he was Lab Manager in two Analytical Contract Laboratories. From 1997 to 2000, he worked as an independent consultant with Shell Chemical Company in Houston, Texas where he conducted research on a new hydrogenation catalyst system for Hydrogenated Triblock Co-Polymers (Kraton Polymers). Since 2001, Mr. Christiaens has been Scientific Director at Nelson Labs Europe (formerly Toxikon

Europe) where he develops analytical methods and protocols for both extractables and leachables studies for the Medical and Pharmaceutical Industries. Mr. Christiaens oversees all laboratory operations at Nelson Labs Europe and supports the European business development team.

9:00 - 18:00

Friday, 22 March 2019

E/L Testing for Small Volume Parenteral Applications

- ► Glass Syringes: the issues with tungsten, glue residues and silicone oil and glass metals leaching
- ► The Issue with rubbers: the plunger, the needle shield or the tip cap: different approaches needed?
- ► The impact of secondary packaging option or necessity?
- ► Setting up extractable & leachable studies for a pre-filled Syringe or a vial system

E/L Testing for Lyophilized Drug Products

- ► Primary packaging for the lyophilized drug product modus of interaction with the DP
- ► Impact of the "21CFR Part 4" on combination products, used in the administration of a lyo DP
- ► Critical aspects when designing leachable studies for lyophilized DP
- ► Integration of the administration procedure (e.g. IV-set, pump system) in leachables evaluation

Large Volume Parenterals

- ► The challenge in E/L testing for LVP's
- ▶ Primary packaging for LVP's critical materials and components
- Secondary packaging for LVP: critical points to consider

E/L Testing for Disposable and Single-Use Systems in Bioproduction

- ► How to classify the risk of different single-use systems in the bioproduction process
- ▶ Understanding BPSA & BPOG recommendations, and how they can be implemented in the study design
- ▶ Performing E/L studies on filters: potential approaches

Analytical Techniques and Methodologies in E/L Research

- Discussion of the Analytical Instrumentation used
- ► The Analytical Chromatographic Screening Process to Discover, Identify and Quantify Organic Extractables
- ► The Risk of Omissions with the Screening Process
- ► The Risk of Inexact Identifications in the Screening Process
- ► The Risk of Inaccurate Quantification when Sscreening
- ► A Risk Mitigation Strategy when Implementing a Screening Methodology

How to Set-up Extractables & Leachables Studies

- Selecting the right conditions for extraction
- ► How to select the right compounds to monitor in a leachable study
- ► Designing a leachable study



John lannone, Principal Consultant, iCG Solutions

John lannone has a background in Biomedical Engineering from Boston University. Since joining the Biotech/ Medtech Industry 15 years ago, John has assisted multiple pharmaceutical & medical device companies with the development of their product safety evaluation strategies. Currently he is a Principal Consultant for iCG, LLC. His areas of expertise include Material Qualification & Biocompatibility, Extractables & Leachables, Chemical Characterization, and attainment of Biological or Toxicological risk assessments for medical devices,

pharmaceutical container systems, bioprocessing systems, and combination products. John has given numerous technical presentations and has led many workshops on Extractable & Leachable Considerations, Biocompatibility, Microbiology, and Regulatory Testing Requirements. He also participates in the development of both industry groups' recommendations and regulatory guidelines through Expert Panel membership, global Technical Committees, and industry collaborations.

9:00 - 16:30

VENUE

Hilton Molino Stucky Venice

Giudecca, 810 30133 Venice, Italy Tel: +39 041 272 3311 https://goo.gl/r1dN9L

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*Rates are per room and night, including the following services and benefits free of charge: Buffet Breakfast in the restaurant, Wireless Internet Connection (WI-FI), VAT, Taxes and Service Charge will apply.

Housing at the selected hotel will be in high demand, so we strongly recommend making your reservations early.

DIRECTIONS

GENERAL ADDRESS

PDA Europe gGmbH Am Borsigturm 60 13507 Berlin, Germany Tel: +49 30 4365508-0 Fax: +49 30 4365508-66

CONFERENCE REGISTRATION HOURS

Monday, 18 March: 9:00 – 12:00 Tuesday, 19 March: 8:00 – 17:30 Wednesday, 20 March: 8:00 – 17:30

COURSE REGISTRATION HOURS

Monday, 18 March: 9:00 – 12:00 Thursday, 21 March: 8:00 – 16:30 Friday, 22 March: 8:00 – 12:00

TO EXHIBIT:

Exhibition and Sponsorship Opportunities are available. PDA meetings and conferences are a great opportunity for your company to gain on-site exposure in front of highly-qualified, upper-level professionals in the pharmaceutical and biopharmaceutical industry. Exhibit at PDA events and let your company's products or services become a valuable tool or resource for our attendees.

SPECIAL REQUIREMENTS

If you require special accommodations to fully participate, please attach a written description of your needs with your registration form. Specific questions can be directed to registration-europe@pda.org.

CONTACT INFORMATION

Conference Inquiries Melanie Decker Director Events & Exhibitions decker@pda.org

Conference Program Inquiries Teresa Schubach programs-europe@pda.org

Registration Customer Care Tel: +49 30 4365508-10 registration-europe@pda.org

Education Program Inquiries Elke von Laufenberg

training-europe@pda.org

Exhibition/Sponsorship Inquiries

Nadjeschda Gomez-Stahl expo-europe@pda.org

PDA Parenteral Packa	nging	Reg Form Page 1
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18 March Pre-filled Syringes	Interest Group Meeting	Meeting Fee All Participants 🛛 350
21 March Packaging Science	Interest Group Meeting	Meeting Fee All Participants 🛛 350
21 March Container Closure Developn	One-Day Training Course nent	Training Course Fee All Participants 🛛 895
21-22 March Test-Methods for Pre-filled	Two-Day Workshop Syringe Systems	Training Course Fee All Participants 🛛 1595
21-22 March Extractables & Leachables	Two-Day Training Course	Training Course Fee All Participants 🛛 1595
21-22 March Container Closure Integrity	Two-Day Workshop Testing	Workshop Fee All Participants 🛛 1595

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The fee includes event documentation as well as mid-session refreshments and lunch. Excellent networking opportunities with snacks and drinks will be given. The fee does not include the hotel accommodation. PDA Europe has secured a limited number of rooms at a special group rate.

Registration fee includes a one-year PDA membership if no further special discount is granted. If you do not wish to join PDA and receive the benefits of membership, please check here (same rate applies).

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Discount for Exhibiting Companies

Please mark here if your company is an exhibitor to this event and you will receive the conference ticket at the **special price of 1195 € per ticket.** No further discounts are applicable with this option (as PDA Membership Discount or Group Ticket discount).

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PDA EUROPE EVENTS



2019

18 March 19-20 March 21 March	Interest Group Meeting Pre-filled Syringes Parenteral Packaging Interest Group Meeting Packaging Science	*	Venice, Italy
16-17 May	Pharmacopoeia	*	Geneva, Switzerland
22-24 May 24 May	Visual Inspection Week Interest Group Meeting Visual Inspection	*	Berlin, Germany
4-5 June	Advanced Therapy Medicinal Products	*	Vilnius, Lithuania
24 June 25-26 June	Interest Group Meeting Quality Systems 4 th PDA Europe Annual Meeting		Amsterdam, The Netherlands
3-4 September	BioManufacturing	*	Munich, Germany
5 September	Project Management in the Pharmaceutical Industry	*	Munich, Germany
24-25 September	Pharmaceutical Freeze Drying Technology	*	Berlin, Germany
24-25 September	Particles in Injectables	*	Berlin, Germany
22-23 October	The Universe of Pre-filled Syringes and Injection Devices	*	Gothenburg, Sweden
12-13 November	Outsourcing & Supply Chain	*	Lisbon, Portugal
Subject to change	For latest info: europe.pda.org		Shortlist 18 Jan 2019



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