



# Agenda

## 2024 PDA Parenteral Packaging Conference

13:00 – 18:00 | **Registration Open**

**Tuesday, 23 April**

08:00 – 17:30

### Registration Open

The Hangar 1-3

09:00 – 09:05

### Welcome and Introduction

The Hangar 4-5

**Committee Member:** Falk Klar, PhD, Parenteral Drug Association

09:05 – 09:15

### Welcome from the Co-Chairs

The Hangar 4-5

**Co-Chair:** Philippe Lauwers, Technology Development Director, Terumo Pharmaceutical Solutions

**Co-Chair:** Derek I Duncan, PhD, Director Product Lines, LIGHTHOUSE Instruments

09:15 – 10:30

### Opening Plenary Part I

The Hangar 4-5

The primary packaging of parenteral drugs continues to play a critical role not only in protecting increasingly complex therapies but also in enabling easy and effective administration of the drug to the patient. This exciting opening session gives a view on parenteral packaging from the perspective of the patient as well as from another industry. In addition, pharmacopeia and regulatory updates will be presented giving critical guidance to the industry on various topics in packaging.

**Moderator:** Derek I Duncan, PhD, Director Product Lines, LIGHTHOUSE Instruments

09:15 – 09:40

How to Package Presents for a Patient?

**Patient Presenter:** Paul Guijt, Volunteer, International Gaucher Alliance

09:40 – 10:05

Updates from USP Packaging Chapters

**Regulatory Presenter:** Desmond G Hunt, PhD, Sr. Principal Scientist, USP

10:05 – 10:30

Looking Across Borders – Aseptic Filling in the Food Industry

**Presenter:** Hanno Gereon Geissler, Head of Technology Services, SIG



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2024 PDA Parenteral Packaging Conference

10:30 – 11:15

## Networking Coffee Break & Exhibition

The Hangar 1-3

11:15 – 12:35

## Opening Plenary Part II

The Hangar 4-5

**Moderator: Derek I Duncan, PhD**, Director Product Lines, *LIGHTHOUSE Instruments*

11:15 – 11:40

### Regulatory Updates of Container Closure Systems for Drugs, Including Biological Products

**Regulatory Presenter: Madushini N Dharmasena, PhD**, Senior Pharmaceutical Quality Assessor, OPQ, CDER, *U.S. FDA*

11:40 – 11:55

### Interactive Questionnaire Session

**Moderator: Derek I Duncan, PhD**, Director Product Lines, *LIGHTHOUSE Instruments*

11:55 – 12:35

### Plenary Discussion

**Moderator: Derek I Duncan, PhD**, Director Product Lines, *LIGHTHOUSE Instruments*

**Regulatory Panelist: Desmond G Hunt, PhD**, Sr. Principal Scientist, *USP*

**Panelist: Hanno Gereon Geissler**, Head of Technology Services, *SIG*

**Panelist: Paul Guijt**, Volunteer, *International Gaucher Alliance*

**Regulatory Panelist: Madushini N Dharmasena, PhD**, Senior Pharmaceutical Quality Assessor, OPQ, CDER, *U.S. FDA*

12:35 – 13:50

## Networking Lunch Break, Poster Session & Exhibition

The Hangar 1-3

13:20 – 13:50

## Guided Poster Walk

The Hangar 1-3

**Moderator: Bram Jongen, PhD**, VP Materials and Surface Technologies, *Datwyler*



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## 2024 PDA Parenteral Packaging Conference

**Moderator: Bettine Boltres, PhD**, Director Scientific Affairs & Technical Solutions, Glass Systems, *West Pharmaceutical Services*

13:20 – 13:50

Aseptic Transfer of RTU Containers in Light of the New Annex 1

**Poster Presenter: Christian Vaas**

13:20 – 13:50

CCI Testing of Fusion Sealed Parenterals

**Poster Presenter: Heinz Wolf**, General Manager, *PTI*

13:20 – 13:50

Container Closure Integrity Test Methods - Status Quo

**Poster Presenter: Domingo Olivares Postigo, PhD**, Laboratory Engineer in Primary Packaging Material and Device Testing, *ten23*

**Poster Presenter: Sarah S. Peláez**, PhD Student & Senior Scientist Primary Packaging, *ten23 health*

13:20 – 13:50

Determining CCI Failure Temperature and Mechanism of PFS Performance at Ultra-Low Temperatures

**Poster Presenter: Lena Mungenast**, Scientist, *University of Applied Sciences Northwestern Switzerland*

13:20 – 13:50

Electron Beam Technology – Transfer Technology for Pre-Sterilized RTU Components

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

13:20 – 13:50

Headspace Analysis versus Helium Leak Testing

**Poster Presenter: Suzanne Kuiper, PhD**, Application Manager, *Lighthouse Instruments*

**Poster Presenter: Marissa Kateva, MSc**, Laboratory Analyst, *Lighthouse Instruments*

13:20 – 13:50

Industry Perspective on a Holistic Approach to Container Closure Integrity

**Poster Presenter: Carine Huon, BSC**, Container Closure Integrity Scientist, *Sanofi*

13:20 – 13:50

Interaction of Machine and Packaging Material



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## 2024 PDA Parenteral Packaging Conference

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

13:20 – 13:50

On the Evolution of Stability and Quality of Bake-on PDMS Coatings upon Extended Thermal Treatments

**Poster Presenter: Chiara Passet**

13:20 – 13:50

Positive Controls - From Kirsch to Now

**Poster Presenter: Christian Proff, PhD**, Senior Verification Engineer, *F. Hoffmann-La Roche Ltd*

13:20 – 13:50

Pre-filled Syringes for Deep Cold Storage

**Poster Presenter: Philip Bortner, M.Sc.**, Global Product Manager Syringes, *Gerresheimer Regensburg GmbH*

13:20 – 13:50

Probability of Detection Study

**Poster Presenter: Bram Keymolen, Master after master**, Compliance Director, *eyetec*

13:20 – 13:50

The Need for High Quality in Primary Packaging

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

13:20 – 13:50

Using Finite Element Analysis to Model Stopper Raising

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

13:50 – 15:10

### Session 1, Track A: Primary Packaging Components

The Hangar 5

Each drug development project comes with its specific application scenario. Consequently, the appropriate parenteral packaging system requires to incorporate components that align with respective manufacturing processes, storage conditions and drug administration setting. In this session, we'll tap into examples of application scenarios and discuss how they translate into requirements and testing methods for components of the packaging system.

**Moderator: Arne Kloke, PhD**, Head of Service and Sustainability Management, *SCHOTT Pharma*



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## 2024 PDA Parenteral Packaging Conference

13:50 – 14:05

Materials for Drug Containers: Glass versus Polymer, Basics, Pros, Cons and Different Applications

**Presenter: Jochen Heinz, MEng, PhD**, Head of New Products & Technology, *Transcoject GmbH*

14:05 – 14:20

How Strong is That Vial Anyway? Applying Glass Fractography to the Evaluation of Novel Glass Parenteral Packaging Technologies

**Presenter: Brandon Aldinger, PhD**, Senior Scientist, *American Glass Research*

14:20 – 14:35

The Effects of the Rubber Component and the Selected Analytical Method on the Moisture Content of a Freeze-Dried Cake

**Presenter: Elke Geuzens, PhD**, Technical and Scientific Expert, *Datwyler*

14:40 – 15:10

Q&A, Discussion

**Moderator: Arne Kloke, PhD**, Head of Service and Sustainability Management, *SCHOTT Pharma*

**Panelist: Jochen Heinz, MEng, PhD**, Head of New Products & Technology, *Transcoject GmbH*

**Panelist: Brandon Aldinger, PhD**, Senior Scientist, *American Glass Research*

**Panelist: Elke Geuzens, PhD**, Technical and Scientific Expert, *Datwyler*

13:50 – 15:10

### Session 1, Track B: Container Closure Integrity Testing

*The Hangar 4*

Container closure integrity is paramount in the development of pharmaceutical products. It serves multiple essential purposes, including safeguarding product quality, preventing microbial contamination, complying with safety and regulatory standards, and ensuring overall product excellence. In this session, we will delve into innovative tools and real-world case studies, aiming to construct a robust, scientifically driven dataset that bolsters an effective container closure integrity control strategy.

**Moderator: Coralie A Richard, PhD**, Senior Director, *Eli Lilly and Company*

13:50 – 14:05

Fully Leveraging Robust CCIT Techniques when Developing PFS within a Holistic Approach

**Co-Presenter: Jean-Sebastien Steffen, MS, PhD**, Group Lead Primary Packaging and Combination Products, *Lonza*

**Co-Presenter: Federico Sabini, MD in Biomedical Engineering**, QC Senior Specialist Primary Packaging Materials and Combination Products, *Lonza AG*

14:05 – 14:20



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## 2024 PDA Parenteral Packaging Conference

Ready to Use Cartridges: Quantitative Assessment of Container Closure Integrity

**Presenter:** Serena Casanova, PhD, Technical Leader, *Stevanato Group*

14:20 – 14:35

A Finite Elements Modeling-Multiscale Contact Mechanics (FEM-MCM) Simulation Approach to Predict the Sealing Performance of a Luer Lock Connector Involving a Polymer-Glass Interface

**Presenter:** Julien Singer, PhD, R&D Senior Engineer, *BD*

14:40 – 15:10

Q&A, Discussion

**Moderator:** Coralie A Richard, PhD, Senior Director, *Eli Lilly and Company*

**Panelist:** Serena Casanova, PhD, Technical Leader, *Stevanato Group*

**Panelist:** Federico Sabini, MD in Biomedical Engineering, QC Senior Specialist Primary Packaging Materials and Combination Products, *Lonza AG*

**Panelist:** Julien Singer, PhD, R&D Senior Engineer, *BD*

**Panelist:** Jean-Sebastien Steffen, MS, PhD, Group Lead Primary Packaging and Combination Products, *Lonza*

15:10 – 15:55

### Networking Coffee Break & Exhibition

The Hangar 1-3

15:55 – 17:15

### Session 2, Track A: Deep Cold Storage

The Hangar 5

Recent drug technologies require ultracold temperatures during transport and storage. These storage cryogenic conditions necessitate development of container closure systems and methods that are functional at ultra-low temperature conditions. This session will discuss Vials for Deep Cold Storage and key learnings in developing and qualifying a container closure integrity test for storage conditions down to -180°C for syringes.

**Moderator:** Madushini N Dharmasena, PhD, Senior Pharmaceutical Quality Assessor, OPQ, CDER, *U.S. FDA*

15:55 – 16:20

Vials for Deep Cold Storage - Part II

**Presenter:** Diana Löber, Global Product Manager Vials, *SCHOTT Pharma AG & Co. KGaA*

16:20 – 16:45

Challenges and Solutions of Container Closure Integrity Syringe Testing at -180°C

**Co-Presenter:** Tom Van Ginneken, Head of Product Management, *SCHOTT AG*



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## 2024 PDA Parenteral Packaging Conference

**Co-Presenter: Paula Bracco, PhD**, R&D Lab Director (Europe), *Lighthouse Instruments B.V.*

16:45 – 17:15

Q&A, Discussion

**Moderator: Madushini N Dharmasena, PhD**, Senior Pharmaceutical Quality Assessor, OPQ, CDER, *U.S. FDA*

**Panelist: Diana Löber**, Global Product Manager Vials, *SCHOTT Pharma AG & Co. KGaA*

**Panelist: Paula Bracco, PhD**, R&D Lab Director (Europe), *Lighthouse Instruments B.V.*

**Panelist: Tom Van Ginneken**, Head of Product Management, *SCHOTT AG*

15:55 – 17:15

### Session 2, Track B: Traceability

*The Hangar 4*

Patient safety is a fundamental responsibility of the pharmaceutical industry. Counterfeit drug products pose a risk to patients and the credibility of pharmaceutical companies. Traceability of drug products is key across the entire supply chain and product life cycle to protect consumers from exposure to drugs that may be counterfeit, contaminated, or in any way harmful. In this session, we will discuss strategies and platforms for tracking medical devices and medicines that ensure safe delivery to patients.

**Moderator: Sinue Gomez, PhD Materials Science**, Technology Director, *Corning Incorporated*

15:55 – 16:20

Towards the Batch Report of One: Connecting Traceability Across Machines and Batches

**Presenter: Robert T Urquhart, MBA**, CEO, *Eagas*

16:20 – 16:45

Seamless Traceability from a Single Device incl. GMP Process Parameter Tracking up to Pallet Aggregation

**Co-Presenter: Georg Schick, Dipl.-Ing.**, Strategic Product Manager Track & Trace, *Uhlmann Pac-Systeme GmbH & Co KG*

**Co-Presenter: Frank Bixenmann, Consultant Digital Solutions**, Consultant Digital Solutions, *Uhlmann Pac-Systeme GmbH & Co. KG*

16:45 – 17:15

Q&A, Discussion

**Moderator: Sinue Gomez, PhD Materials Science**, Technology Director, *Corning Incorporated*

**Panelist: Robert T Urquhart, MBA**, CEO, *Eagas*

**Panelist: Georg Schick, Dipl.-Ing.**, Strategic Product Manager Track & Trace, *Uhlmann Pac-Systeme GmbH & Co KG*

**Panelist: Frank Bixenmann, Consultant Digital Solutions**, Consultant Digital Solutions, *Uhlmann Pac-Systeme GmbH & Co. KG*



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## 2024 PDA Parenteral Packaging Conference

17:15 – 22:00

End of Conference Day 1 & Networking Event

### Wednesday, 24 April

07:30 – 17:00

Registration Open

The Hangar 1-3

08:00 – 08:45

Track A: Packaging Science Morning Session - MDR Cobalt Requirement Regulations

The Hangar 5

**Moderator:** Tony A Perry, Regional Director of Quality, *SCHOTT Pharma*

08:00 – 08:10

The Impact of the MDR Cobalt Requirement Regulations

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

08:10 – 08:45

Open Discussion

**Moderator:** Tony A Perry, Regional Director of Quality, *SCHOTT Pharma*

**Panelist:** Maria Bauer, Product Reviewer BC, *TÜV SÜD PRODUCT SERVICE GmbH*

08:00 – 08:45

Track B: Pre-Filled Syringes Morning Session - Meet Future Market & Regulatory Requirements for Filling & Assembly of Pre-Filled Syringes

The Hangar 4

This session will discuss the critical parameters and points in the fill/finish and AI assembly processes. Attendees will gain a much better understanding of the interaction between packaging material/device and equipment, as well as the importance of early collaboration between pharmaceutical companies and suppliers.

**Moderator:** Brigitte Reutter-Haerle, Vice President Product Management & Marketing, *Vetter*

08:00 – 08:15

The Success and Challenges of Ready-to-Use Packaging Material for Fill & Finish

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

08:15 – 08:30





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Key Points of Attention and Lessons Learned from the PFS-Device Assembly Point of View

**Presenter:** Alessandro Pettenuzzo, Technical Sales Manager, *Stevanato Group S.p.a.*

08:30 – 08:45

Panel Discussion, Q&A

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

**Panelist:** Alessandro Pettenuzzo, Technical Sales Manager, *Stevanato Group S.p.a.*

**Panelist:** Brigitte Reutter-Haerle, Vice President Product Management & Marketing, *Vetter*

**Moderator:** Frank Bamberg, MA, Associate Director of Primary Packaging and Medical Devices, *CSL Behring*

09:00 – 10:20

### Session 3, Track A: Drug-Primary Container Interaction

The Hangar 5

The core property of a primary container is to ideally not interfere with the valuable ingredients inside. However, life is seldom ideal. This session will explore how various factors could affect particle formation or excipient/protein degradation through unwanted drug container interactions.

**Moderator:** Folker Steden, Dr, Senior Principal Expert, Director Product Management, *Schott Tubing*

09:00 – 09:25

Impact of Primary Container on PS80 and Protein Oxidation

**Presenter:** Tingting Wang, PhD, Senior Director, *Eli Lilly and Company*

09:25 – 09:50

Factors Affecting the Formation of Chemically Derived Particles in Pharmaceutical Glass Containers

**Presenter:** Luis A González, MSc, Research Scientist, *Corning*

09:50 – 10:20

Q&A, Discussion

**Moderator:** Folker Steden, Dr, Senior Principal Expert, Director Product Management, *Schott Tubing*

**Panelist:** Tingting Wang, PhD, Senior Director, *Eli Lilly and Company*

**Panelist:** Luis A González, MSc, Research Scientist, *Corning*

09:00 – 10:20

### Session 3, Track B: Administration Routes Different from Intravenously and Subcutaneous

The Hangar 4



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Recent years have seen remarkable progress in ocular drug delivery, tackling the intricate anatomical complexities of the eye. This session explores the realm of ocular device delivery, highlighting both opportunities and challenges in innovating to fulfill unmet patient needs while optimizing therapeutic outcomes and minimizing side effects.

**Moderator: Coralie A Richard, PhD**, Senior Director, *Eli Lilly and Company*

09:00 – 09:25

Advancing Ocular Device Delivery: Exploring Routes, Challenges, and Innovations to Meet Patient Needs

**Presenter: Vincent Cazanave**, Device Team Leader, *Roche*

09:25 – 09:50

Case Study of a Drug Delivery Solution for Complex Intravitreal Drugs Using Pre-Filled Syringes

**Presenter: Nicolas Eon, PhD**, Senior Technology Development Manager, *Terumo Europe nv*

09:50 – 10:20

Q&A, Discussion

**Moderator: Coralie A Richard, PhD**, Senior Director, *Eli Lilly and Company*

**Panelist: Vincent Cazanave**, Device Team Leader, *Roche*

**Panelist: Nicolas Eon, PhD**, Senior Technology Development Manager, *Terumo Europe nv*

10:20 – 10:50

Networking Coffee Break, Poster Session & Exhibition

The Hangar 1-3

10:50 – 12:10

Session 4, Track A: Bag Systems & Large Volume Parenterals

The Hangar 5

This session covers two open topics around large volume parenterals, i.e. infusion bags: We will explore how to properly validate positive controls for infusion bags and how to implement this in your daily routine. Also, we will take a closer look at the materials themselves and identify nitrosamine impurities coming from the material and the respective challenges being posed for the analytical evaluation.

**Moderator: Bettine Boltres, PhD**, Director Scientific Affairs & Technical Solutions, Glass Systems, *West Pharmaceutical Services*

10:50 – 11:15

Positive Controls in Flexible Parenteral Packaging Container Closure Integrity Testing

**Presenter: Guerne D.H Hunt, MS**, Research Engineer 1, *Packaging Technologies and Inspection*

11:15 – 11:40

Nitrosamines in Flexible Packaging Materials – A Challenge for Large Volume Parenterals



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## 2024 PDA Parenteral Packaging Conference

**Presenter: Andreas Meiser, Dr-Ing**, Sr. Director of Component Development, *Fresenius Medical Care Deutschland GmbH*

11:40 – 12:10

Q&A, Discussion

**Moderator: Bettine Boltres, PhD**, Director Scientific Affairs & Technical Solutions, Glass Systems, *West Pharmaceutical Services*

**Panelist: Guerney D.H Hunt, MS**, Research Engineer 1, *Packaging Technologies and Inspection*

**Panelist: Andreas Meiser, Dr-Ing**, Sr. Director of Component Development, *Fresenius Medical Care Deutschland GmbH*

10:50 – 12:10

### Session 4, Track B: Sustainability

The Hangar 4

The sustainability ball is rolling, faster than ever, also in pharma packaging. We talk you through the impact of the new EU Packaging Waste Directive and shed some light on reducing packaging for Pre-filled Syringes.

**Moderator: Bram Jongen, PhD**, VP Materials and Surface Technologies, *Datwyler*

10:50 – 11:15

Consequences From the EU Packaging Waste Directive

**Presenter: Lize Jaspers, PhD**, Environmental Sustainability Requests Mgr, *Amgen*

11:15 – 11:40

Secure Blister-Free Syringe Supply – A New, Sustainable Dress Code for Pre-Filled Syringes Providing More Value with Less Packaging

**Presenter: Nadine K Lampka, PhD**, Senior Product Manager Pharma-Security, *Schreiner MediPharm*

11:40 – 12:10

Q&A, Discussion

**Moderator: Bram Jongen, PhD**, VP Materials and Surface Technologies, *Datwyler*

**Presenter: Lize Jaspers, PhD**, Environmental Sustainability Requests Mgr, *Amgen*

**Panelist: Nadine K Lampka, PhD**, Senior Product Manager Pharma-Security, *Schreiner MediPharm*

12:10 – 13:25

### Networking Lunch Break, Poster Session & Exhibition

The Hangar 1-3



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## 2024 PDA Parenteral Packaging Conference

12:10 – 13:25

### Tech Talks

The Hangar 1-3

12:45 – 12:55

Gx Elite Vials: Superior Quality for De-Risking of Fill & Finish Operations

**Tech Talk Presenter: Lothar Haaf, Dipl.-Ing.(FH)**, Senior Manager Technical Service Tubular Glass, *Gerresheimer Glas GmbH*

12:55 – 13:05

How Secondary Packaging Supports Your Sustainability Goals

**Tech Talk Presenter: Sandro Furlan**

13:05 – 13:15

VIALEX™ Vials - Exceptional Inner Surface Durability

**Tech Talk Presenter: Clement Condouret**

13:25 – 13:40

### Interactive Questionnaire Session

The Hangar 4-5

**Moderator: Philippe Lauwers**, Technology Development Director, *Terumo Pharmaceutical Solutions*

13:40 – 14:25

### Closing Plenary Part I

The Hangar 4-5

In this plenary session, presenters will provide updates on regulatory topics and on PDA Technical Report 43, as well as on industry efforts being deployed to further reduce emissions in line with the goals of the Paris Climate Agreement. The closing panel discussion will allow us to engage in an interactive exchange of thoughts on the above topics or any other topic covered in this two-day conference.

**Moderator: Philippe Lauwers**, Technology Development Director, *Terumo Pharmaceutical Solutions*

13:40 – 14:00

2023 Revision of the PDA Technical Report 43

**Co-Presenter: Alicia Gallagher**, Sr. Product Development Scientist, *Corning Incorporated*

**Co-Presenter: Carol Rea Flynn, M. Eng.**, Director of Field Quality, Primary Packaging Glass, *Gerresheimer Glass Inc.*

14:00 – 14:25

ISO 11040-Pre-filled Syringes: Update from ISO TC76/WG2



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## 2024 PDA Parenteral Packaging Conference

**Presenter: Horst Koller, Dipl.-Ing., CEO, HK Packaging Consulting**

14:25 – 14:55

### Networking Coffee Break, Poster Session & Exhibition

The Hangar 1-3

14:55 – 15:00

### Passport Raffle

The Hangar 4-5

**Moderator: Melanie Decker, Parenteral Drug Association**

15:00 – 16:10

### Closing Plenary Part II

The Hangar 4-5

**Moderator: Philippe Lauwers, Technology Development Director, Terumo Pharmaceutical Solutions**

15:00 – 15:25

#### Turning Pharma Manufacturing Circular for Zero

**Presenter: Bo Gottlieb, MA, Senior Project Manager, Novo Nordisk A/S**

15:25 – 16:10

#### Plenary Discussion

**Moderator: Philippe Lauwers, Technology Development Director, Terumo Pharmaceutical Solutions**

**Regulatory Panelist: Madushini N Dharmasena, PhD, Senior Pharmaceutical Quality Assessor, OPQ, CDER, U.S. FDA**

**Panelist: Carol Rea Flynn, M. Eng., Director of Field Quality, Primary Packaging Glass, Gerresheimer Glass Inc.**

**Panelist: Alicia Gallagher, Sr. Product Development Scientist, Corning Incorporated**

**Panelist: Bo Gottlieb, MA, Senior Project Manager, Novo Nordisk A/S**

**Panelist: Paul Guijt, Volunteer, International Gaucher Alliance**

**Panelist: Horst Koller, Dipl.-Ing., CEO, HK Packaging Consulting**

16:10 – 16:25

### Co-Chairs Conference Summary

The Hangar 4-5

**Co-Chair: Derek I Duncan, PhD, Director Product Lines, LIGHTHOUSE Instruments**



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## 2024 PDA Parenteral Packaging Conference

**Co-Chair: Philippe Lauwers**, Technology Development Director, *Terumo Pharmaceutical Solutions*

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16:25 – 16:30

### Closing Remarks & Farewell

The Hangar 4-5

**Committee Member: Falk Klar, PhD**, *Parenteral Drug Association*