



Suitability and Compatibility for Packaging and Delivery Systems Workshop Co-sponsored by USP and PQRI

December 9–10, 2013
USP Meetings Center
Rockville, Maryland

Preliminary Agenda

(As of December 9, 2013 – Subject to Change)

Monday, December 9, 2013 (Day 1)

- 7:30 a.m. Registration & Continental Breakfast**
- 8:15 a.m. USP Welcome**
Desmond G. Hunt, Ph.D., Senior Scientific Liaison, USP
- Session 1: Opening Remarks and Introduction to the Workshop**
Session Chair: Mary Foster, Pharm.D., Chair, USP General Chapters - Packaging, Storage, and Distribution Expert Committee
- 8:30 a.m. Workshop Overview and Objectives:**
Mary Foster
- 8:40 a.m. USP Extractables and Leachables Standards for Packaging Systems**
Michael Eakins, Ph.D., Vice-Chair, USP Packaging, Storage and Distribution Expert Committee, Eakins & Associates
- 9:00 a.m. PQRI: Mission and Goals of the Extractables and Leachables Working Groups**
Reginaldo Saraceno, Ph.D. Director, Analytical Development – US Boehringer Ingelheim Pharmaceuticals, Inc. and PQRI Drug Technical Committee
- 9:20 a.m. Keynote Presentation:**
The FDA's Approach to Revising the 1999 Packaging Guidance
Don Klein, Ph.D., Government Liaison, USP General Chapters - Packaging, Storage, and Distribution Expert Committee; U.S. Food and Drug Administration
- 9:50 a.m. Q&A**
- 10:05 a.m. Break**
- Session 2: Introduction to the USP Strategy for Establishing Suitability and Compatibility of Packaging and Delivery Systems**
Session Chair: Michael Eakins
- 10:20 a.m. Compendial Standards and their Applicability**
Matthew Van Hook, J.D., Vice President and Assistant General Counsel, USP

Monday, December 9, 2013 (continued...)

- 10:40 a.m. Goals and Objectives, <661> Plastic Packaging Systems and Their Materials of Construction**
Dennis Jenke, Ph.D., Member, USP General Chapters - Packaging, Storage, and Distribution Expert Committee; Baxter Healthcare Corporation
- 11:00 a.m. Goals and Objectives, <1663> Assessment of Extractables Associated with Pharmaceutical Packaging/Delivery Systems**
Daniel Norwood, Ph.D., Member, USP General Chapters - Packaging, Storage, and Distribution Expert Committee; Boehringer-Ingelheim Pharmaceuticals Inc
- 11:20 a.m. Goals and Objectives, <1664> Assessment of Drug Product Leachables Associated with Pharmaceutical Packaging/Delivery Systems**
Lee Nagao, Ph.D., Member, USP <1664> Leachable and Best Practices Expert Panel; Drinker Biddle & Reath LLP
- 11:40 a.m. Panel Discussion and Q&A**
Panel:
Matthew Van Hook, Dennis Jenke, Daniel Norwood, Lee Nagao
- 12:15 p.m. Lunch**
- Session 3: <661> Plastic Packaging Systems and Their Materials of Construction**
Session Chair: Michael Ruberto, Ph.D., Member, USP General Chapters - Packaging, Storage, and Distribution Expert Committee; Material Needs Consulting
- 1:30 p.m. <661.1> Plastic Materials of Construction**
Dennis Jenke
- Introduction and Scope
 - Biological Reactivity
 - Physicochemical Tests
 - Extractable Metals
 - Plastic Additives
- 2:20 p.m. <661.2> Plastic Packaging Systems for Pharmaceutical Use**
Dennis Jenke
- Introduction and Scope
 - Biological Reactivity
 - Physicochemical Tests
 - Safety Assessment; Extractables and Leachables
 - Compatibility Assessment
- 2:50 p.m. Panel Discussion and Q&A**
Panel:
Dennis Jenke, Diane Paskiet, Michael Eakins, Daniel Norwood, Michael Ruberto
- 3:20 p.m. Break**

Monday, December 9, 2013 (continued...)

- Session 4: <1663> Assessment of Extractables Associated with Pharmaceutical Packaging/Delivery Systems**
Session Chair: Diane Paskiet, Member, USP General Chapters - Packaging, Storage, and Distribution Expert Committee; West Pharmaceutical Services Inc.
- 3:40 p.m. <1663> Assessment of Extractables Associated with Pharmaceutical Packaging/Delivery Systems**
Daniel Norwood
- Introduction and Scope
 - Scope
 - Key Terms
 - Background Information
- 4:10 p.m. <1663> Assessment of Extractables Associated with Pharmaceutical Packaging/Delivery Systems**
Dennis Jenke
- Generating and Characterizing Extractables
 - Additional Considerations
- 4:30 p.m. Panel Discussion and Q&A**
- Panel:**
Daniel Norwood, Cheryl Stults
- 5:30 p.m. Reception and PQRI Poster Session, USP Corridor of Volunteers**
- 6:30 p.m. Adjourn for the Day**

Tuesday, December 10, 2013 (Day 2)

- 7:45 a.m. Registration, Continental Breakfast & PQRI Poster Session**
- 8:30 a.m. Opening Remarks**
Mary Foster
- Session 5: <1664> Assessment of Drug Product Leachables Associated with Pharmaceutical Packaging/Delivery Systems**
Session Chair: Timothy McGovern, Ph.D., Member, USP <1664> Leachable and Best Practices Expert Panel; U.S. Food and Drug Administration
- 8:40 a.m. Keynote Presentation: <1664> Assessment of Drug Product Leachables Associated with Pharmaceutical Packaging/Delivery Systems**
Cheryl Stults, Ph.D., Member, USP <1664> Leachable and Best Practices Expert Panel; Novartis
- 9:15 a.m. <1664.1> Orally Inhaled and Nasal Drug Products**
Brian Rogers, Ph.D., U.S. Food and Drug Administration

Tuesday, December 10, 2013 (continued...)

9:45 a.m. Panel Discussion and Q&A

Panel:

Daniel Norwood, Cheryl Stults, Lee Nagao, Brian Rogers, Ingrid Markovic

10:15 a.m. Break

Session 6: Product Quality Research Institute (PQRI) Leachables and Extractables Working Group Initiatives for Parenteral and Ophthalmic Drug Product (PODP)

Session Chair: Diane Paskiet

10:30 a.m. Program Introduction: *Diane Paskiet, West Pharmaceutical Services Inc; Chair, PQRI/PODP Leachables and Extractables Working Group*

10:35 a.m. Application of PQRI OINDP Best Thresholds and Best Practices for Leachables and Extractables Recommendations

Prasad Peri, Ph.D., U.S. Food and Drug Administration

11:00 a.m. Goals and Objectives of the Parenteral and Ophthalmic Working Group

Diane Paskiet

Session 7: PQRI Toxicology

Session Chair: Douglas J. Ball, Pfizer, Inc.; PQRI Toxicology Team Leader

11:15 a.m. Utilization of the Safety Concern Threshold and the Proposed Extractable and Leachable Classification Levels for Parenteral and Ophthalmic Drug Products

Douglas Ball

11:30 a.m. Information and Report Formats to Facilitate Safety Qualifications

Timothy W. Robison, Ph.D., D.A.B.T., U.S. Food and Drug Administration

Stephen A. Barat, Ph.D., Forest Laboratories

12:00 noon Lunch

1:00 p.m. Risk Assessments: Toxicological Toolbox

Jacqueline A. Kunzler, MBA, Ph.D., D.A.B.T., Baxter Healthcare

Tuesday, December 10, 2013 (continued...)

1:20 p.m. Industry-Regulatory Panel-PODP Thresholds

Panel Moderator: Douglas Ball

Panel:

- *Abigail Jacobs, Ph.D., U.S. Food and Drug Administration*
- *Timothy W. Robison, Ph.D., D.A.B.T., U.S. Food and Drug Administration*
- *Alisa Vespa, Health Canada*
- *Mary Richardson, Ph.D., Bausch & Lomb*
- *William P. Beierschmitt, Ph.D., Pfizer, Inc*

Session 8: PQRI Chemistry

Session Chair: Dennis Jenke, Ph.D. Baxter Healthcare; PODP Chemistry Team Leader

1:45 p.m. Introduction of PODP Best Practices

Dennis Jenke

2:00 p.m. Regulatory Perspective on L/E: Quality Considerations

Ingrid Markovic, Ph.D., U.S. Food and Drug Administration

2:30 p.m. Break

2:45 p.m. Crafting Controlled Extraction and Simulation Studies for Parenteral and Ophthalmic Drug Products: Impact of Formulation on Study Design

Christopher Houston, Ph.D., Bausch & Lomb

3:05 p.m. Fit-for-Purpose - Analytical Concepts: Adequately Monitoring Targets while Capturing Non-Targets

Thomas Egert, Boehringer Ingelheim Pharma GmbH & Co. KG

3:25 p.m. Bridging the Divide: Use of Simulation Studies to Resolve the PODP Analytical Challenge

Thomas N. Feinberg, Ph.D., Catalent Pharma Solutions

3:45 p.m. Industry-Regulatory Panel: Putting PQRI PODP Recommendations Into Practice

Panel Moderator: Dan Norwood

Panel:

- *Kumudini Nicholas, Health Canada*
- *Frank Holcombe, Jr., Ph.D. U.S. Food and Drug Administration; PQRI Development Technical Committee Liaison*
- *Ingrid Markovic, Ph.D., U.S. Food and Drug Administration*
- *Diane Paskiet, PQRI PODP Chair*
- *Dennis Jenke PODP Chemistry Lead*
- *Doug Ball PODP Toxicology Lead*

4:30 p.m. Workshop Concludes