Showcase Event - Cold Chain Distribution Practices

Principal Sponsor: Envirotainer
Sponsor: Coolpac

Tuesday February 16th, 2016
Venue: L’Unica on Parkville
What is PDA?

The Parenteral Drug Association (PDA) is the leading global provider of science, technology and regulatory information and education for the pharmaceutical and biopharmaceutical community. Founded in 1946 as a nonprofit organization, PDA is committed to developing scientifically sound, practical technical information and resources to advance science and regulation through the expertise of its more than 9,500 members worldwide.

MISSION
To develop scientifically sound, practical technical information and resources to advance science and regulation for the pharmaceutical and biopharmaceutical industry through the expertise of our global membership.

VISION
To be the foremost global provider of science, technology, and regulatory information and education for the pharmaceutical and biopharmaceutical community.

PDA: Connecting People, Science and Regulation®

PEOPLE: Enhance the value of PDA membership

SCIENCE: Be recognized as a leading organization for manufacturing science, quality and innovation

REGULATION: Our regulatory activities are scientifically and technically focused, and current information is communicated to our members

BUSINESS MANAGEMENT: Enhance business processes to provide a solid foundation and organization to sustain PDA’s people, science and regulation strategies.
Volunteer Opportunities at PDA

Leadership

- PDA Executive Officers
- Director
- Scientific Advisory Board
- Biotechnology Advisory Board
- Regulatory Affairs and Quality Advisory Board
- PDA Committee Chair/Co-Chair
- Task Force Co-Chair

Author/Contributor to the PDA Letter
Author/Contributor to the PDA Journal
PosterPresenter
Attend Chapter Committee/Planning Meetings
Technical Report Peer Reviewer
Speaker
Chapter Leader
Task Force Member
TRI Instructor
Interest Group Leader

PDA Committees:
- Program Planning Committee
- Membership Committee
- PDA Letter Committee
- Education Committee
- Audit Committee

PDA Membership
Attend Global PDA Meetings
Attend Chapter Events
Survey Reviewer
Interest Group Member
Attend TRI Courses

1,000
Over 1,000 volunteers worldwide actively carry out PDA’s Mission

volunteer@pda.org
Join the Conversation @ PDA CONNECT℠

The interactive, members-only online community exclusively for you!

With PDA Connect℠ you can:
- Connect and engage with your local chapter
- Participate in discussions about niche topics in your Interest Groups
- Network and build collaboration with fellow PDA members around the world
- Gain access to members-only digital resources

Community.pda.org

Continue the Conversation @PDA CONNECT℠!

Not a PDA Member? Join today to gain full access to PDA Connect℠ and more!
PDA Technical Report Portal

PDA Members have 24/7 access to more than 40 active Technical Reports in the PDA Technical Report Portal.
PDA Membership is individual-based in all cases. PDA does not offer corporate membership at this time.

<table>
<thead>
<tr>
<th>Membership Benefits</th>
<th>Standard/Individual</th>
<th>Young Professional</th>
<th>Emerging Economy/Academic</th>
<th>Student</th>
<th>Retired/Unemployed</th>
<th>Regulator/Health Authority</th>
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Member Types and Benefits:
- Standard/Individual: $259 per year
- Young Professional: $100 per year
- Emerging Economy/Academic: $100 per year
- Student: $30 per year
- Retired/Unemployed: $25 per year
- Regulator/Health Authority: $0-$12 per year

Join PDA for each type.
<table>
<thead>
<tr>
<th>Name</th>
<th>Company</th>
<th>Position</th>
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<tbody>
<tr>
<td>David Spaulding</td>
<td>SeerPharma</td>
<td>President</td>
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<tr>
<td>Eoin Hanley</td>
<td>PharmOut</td>
<td>President Elect</td>
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<tr>
<td>Ken Dibble</td>
<td>Professional</td>
<td>Secretary</td>
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<tr>
<td>Paul Kerr</td>
<td>SeerPharma</td>
<td>Treasurer</td>
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<tr>
<td>Kim Waters</td>
<td>GSK</td>
<td>Past President</td>
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<tr>
<td>Ano Xidias</td>
<td>CSL Behring</td>
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<tr>
<td>John Montalto</td>
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<tr>
<td>Robert Caunce</td>
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<td>Paul Doughty</td>
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<td>Trevor Schoerie</td>
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<tr>
<td>Tina Khamu</td>
<td>Pall</td>
<td>Committee Member</td>
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1. Introduction
   • What & Why
   • Considerations
2. Glossary of terms
3. Overview
   • Principles
   • Understanding types of systems
   • Characteristics
4. Qualification Guidance
5. Operational Considerations
6. Conclusions
7. Appendix & Reference
What is TPS?

• Passive Thermal Protection System
  – Non-powered
  – Insulation or barrier to heat exchange
  – Protection of temperature sensitive freight

• System components
  – Covering
  – Insulation
Why Choose Passive Protection?

• Energy Savings
• Simplicity
• Availability of Active Systems
• No Mechanical parts to break down
• Continuous Product Protection
• Carbon Emission Reductions
• Less Expensive
Cold Chain Distribution Practices

Speakers
Stephen Winyard – Envirotainer
Stephen Maietta – Envirotainer
10 min break
Nigel Bleakley – Pfizer
Andrew Gibson – CoolPac
Dinner

Question cards available on the tables

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