

Showcase Event -Cold Chain Distribution Practices

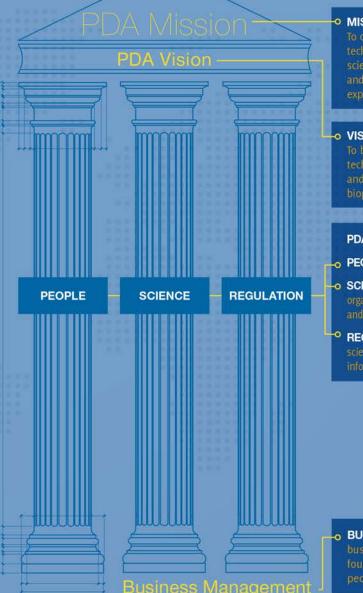
Principal Sponsor: Envirotainer Sponsor: Coolpac

Tuesday February 16th, 2016 Venue: L'Unica on Parkville

Connecting People, Science and Regulation®

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 Founded in 1946 as a nonprofit organization, PDA is committed to developing scientifically sound, practical technical information and resources to through the expertise of its more than 9,500 members



MISSION

science and regulation for the pharmaceutical and biopharmaceutical industry through the expertise of our global membership

O VISION

PDA: Connecting People, Science and Regulation®

- •• **PEOPLE:** Enhance the value of PDA membership
- -o SCIENCE: Be recognized as a leading
- **REGULATION:** Our regulatory activities are information is communicated to our members

BUSINESS MANAGEMENT: Enhance business processes to provide a solid

Volunteer Opportunities at PDA

Director

OPDA Executive

Officers

Leadership

Scientific Advisory

Board

 Biotechnology Advisory Board Regulatory Affairs and Quality

Advisory Board

volunteer@pda.org

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

			 PDA Committee Chair/Co-Chair Task Force Co-Chair 	
 Author/Contributor to the PDA Letter Author/Contributor to the PDA Journal Poster Presenter 	 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 	
 Attend Chapter Committee/Planning Meetings 				
 Technical Report Peer Reviewer 				
PDA Membership	Attend Chapter Events O Ir		terest Group Member	
Attend Global PDA Meet	etings Survey Review 	ver 💿 A	ttend TRI Courses	

Getting Involved

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

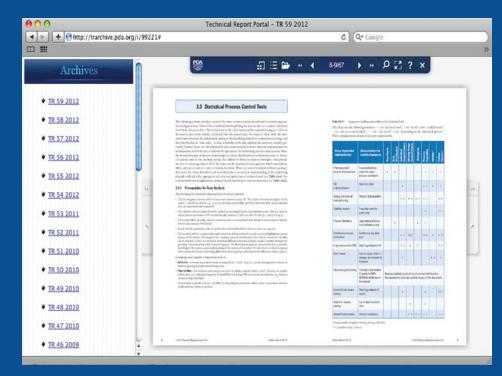
Continue the Conversation @PDA CONNECT[™]!

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 Member Types and Benefits



		Standard/Individual	Young Professional	Emerging Economy/Academic	Student	Retired/Unemployed	Regulator/Health Authority
		\$259 per year	\$100 per year	\$100 per year	\$30 per year	\$25 per year	\$0-12 per year
Membership Benefits	PDA Letter (hard copy)	e	NA	NA	NA	NA	NA
	PDA Technical Report Portal (electronic)			NA	NA	NA	
	PDA Journal (electronic)						
	PDA Letter (electronic)						
	PDA Member Directory						0
	PDA Member Discounts						0
		Join PDA	Join PDA	Join PDA	Join PDA	Join PDA	Join PDA

PDA Membership is individual-based in all cases. PDA does not offer corporate membership at this time. The Parenteral Drug Association presents the...

2016 PDA Annual Meeting

Achieving Manufacturing Excellence: Current Trends and Future Technologies in Bioprocessing March 14-16, 2016 | San Antonio, TX

JW Marriott San Antonio Hill Country Exhibition: March 14-15 | Post-Workshop: March 16-17 | Courses: March 17-18





New Technology, New Facilities to Support Current and New Therapies and Drug Products

pdaannualmeeting.org #2016annual

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Name	Company	Position	Australia
David Spaulding	SeerPharma	President	Chapter
Eoin Hanley	PharmOut	President Elect	
Ken Dibble	Professional	Secretary	
Paul Kerr	SeerPharma	Treasurer	
Eoin Hanley	PharmOut	Membership Liaison	
Kim Waters	GSK	Past President	
Ano Xidias	CSL Behring	Committee Member	
John Montalto	CSL Behring	Committee Member	
Robert Caunce	Hospira	Committee Member	
Usha Gullapalli	Hospira	Committee Member	
Mark Dickson	Novartis	Committee Member	
Rob Sullivan	Professional	Committee Member	
Paul Doughty	Morilla Technology	Committee Member	
Trevor Schoerie	PharmOut	Committee Member	
Tina Khamu	Pall	Committee Member	

PDA'

Parenteral Drug Association



- 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 <u>Thermal</u> <u>Protection</u> <u>System</u>
 - 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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