

2009 IEEE Symposium on Product Compliance Engineering (PSES 2009)

**Toronto, Ontario, Canada
26 – 28 October 2009**



**IEEE Catalog Number: CFP29PSE-PRT
ISBN: 978-1-4244-3305-6**

TABLE OF CONTENTS

The Selection and Use of Power Strips	1
<i>Ted Eckert</i>	
Evaluation of Resistive Faults in High Current Starter Cables	6
<i>Ashish Arora, Nosh Medora, Bala Pinnangudi, Thomas Livernois</i>	
Introduction to Printed Circuit Board Failures	14
<i>Daren Slee, Jeremiah Stepan, Wei Wei, Jan Swart</i>	
Emerging Issues in Regulations and Standards: Sampling Considerations Within Market Surveillance	
Actions	22
<i>Ivan Hendriks, Nikola Tuneski</i>	
Arcing and Fires – Case Studies	26
<i>Jan Swart, John Loud, Daren Slee</i>	
Product Liability Prevention: Even More Important in Tough Economic Times	32
<i>Kenneth Ross</i>	
Bringing Science into the Courtroom	36
<i>David Utt</i>	
IEEE 1725 and Battery Powered Products	45
<i>Snehal Dalal, Jan Swart, Bala Pinnangudi</i>	
Safety of Electrical Equipment Containing Lead Acid Batteries	49
<i>Don Gies</i>	
Understanding Fuse Ratings	56
<i>Ted Eckert</i>	
Exploring Medical Device Reliability – and It’s Relationship to Safety and Effectiveness	62
<i>Sandy Weininger, Michael Pecht</i>	
Lithium Battery Transportation Test Requirements	67
<i>Berrigan Remenick</i>	
Product Design - How to Get the Design Right the First Time	79
<i>Cherie Forbes</i>	
Corona and Arcing in Power and RF Devices	83
<i>Dheena Moongilan</i>	
Leveraging Safety and EMC Skills in Energy Regulatory Compliance	90
<i>Tim Calland</i>	
Author Index	