

2015 IEEE Symposium on Product Compliance Engineering

(ISPCE 2015)

**Chicago, Illinois, USA
18-20 May 2015**



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Monday, May 18, 2015

9:30 AM - 10:30 AM

The basic requirements of a product going from the plug through the enclosure and components	Presentation Only
<i>John Allen (Product Safety Consulting, Inc., USA)</i>	

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<i>Theodore Eckert (Microsoft Corporation, USA)</i>	

Medical Device IEC 60601-1 Preliminary Evaluations	Presentation Only
<i>Brian Biersach (MECA, USA)</i>	

EMC Fundamentals - Grounding, Shielding, Filtering Design and Layout	Presentation Only
<i>Elya Joffe (Electromagnetic Solutions, Ltd., Israel)</i>	

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<i>Richard Nute(IEEE, USA)</i>	

Compliance Challenges for Smart Grid and Emerging Smart Systems and Devices	Presentation Only
<i>Rudi Schubert (IEEE Standards Association, USA)</i>	

Amendment 1 of IEC 60601-1, 3rd Ed. - What are the changes?	Presentation Only
<i>James Benscoter (UL LLC, USA)</i>	

1:10 PM - 2:10 PM

Touch Current and Electric Shock Tutorial	Presentation Only
<i>Peter Perkins (P.E. Perkins PE, USA)</i>	

Electronic Cigarettes, the past, present, and future	Not Available at Time of Production
<i>Richard Pruen (BTC Battery Testing, USA)</i>	

Medical Safety testing requirements for 60601 safety testing	Presentation Only
<i>Jorel Townsend (Chroma System Solutions, USA)</i>	

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Introduction to IEC 60335 - Household and similar electrical appliances - Safety 11
Dan Roman (Colgate-Palmolive Company, USA)

Requirements, Challenges and Opportunities of Microsensors for Wearable Devices Presentation Only
Kai-Hsiang Yen (Underwriters Laboratories Taiwan Co., Ltd., Taiwan)

IEC 60601-1-2 4th Edition EMC Presentation Only
Nicholas Abbondante (Intertek, USA)

Introduction to Printed Circuit Board Design for EMC Compliance Presentation Only
Mark Montrose (Montrose Compliance Services, Inc., USA)

3:50 PM - 4:50 PM

Electrical Safety Testing in a Production Environment Presentation Only
Dwayne Davis (Associated Research, Inc., USA)

ISO 14971 Risk Management standard and EU MDD Presentation Only
Steli Loznen (I.T.L Ltd, Israel)

5:00 PM - 6:00 PM

Navigating The Product Certification Maze Presentation Only
Valerie Madarasz (CSA Group, USA)

Human Factors Engineering in Medical Devices Presentation Only
Cindy Miller (GE Healthcare, USA)

Tuesday, May 19, 2015

8:00 AM - 9:00 AM

Failure Mode & Effects Analysis (FMEA) Methods and Accelerated Testing Concepts..... Presentation Only
Daren Slee (Exponent Engineering and Scientific Consulting, USA)

Update on Regulatory Labeling Presentation Only
Gary Schrempp (Dell Inc., USA)
Daniece Carpenter (Dell Inc., USA)

**Levels of Conceptual Interoperability Model for Healthcare Framework
for Safe Medical Device Interoperability 17**
Michael Robkin (Anakena Solutions, Inc., USA)
Sandy Weininger (FDA/CDRH, USA)
Benjamin Preciado (Anakena Solutions, Inc., USA)
Julian Goldman (Massachusetts General Hospital, USA)

New European EMCD, LVD and RED – What’s new? Presentation Only
Michael Loerzer (Globalnorm GmbH, Germany)

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Seawater Immersion Abuse Testing of Electric and Hybrid Vehicles Presentation Only
Erik Spek (TUV SUD Canada Inc., Canada)

Photobiological Safety of LED Lamps and Lamp Systems: IEC/EN 62471 Presentation Only
David Ellis (Intertek, USA)

**Applying STPA-based Hazard Analysis to support Hazard-based Safety
Engineering for Systems Built Using Medical Application Platforms Presentation Only**
Sam Procter (Kansas State University, USA)
John Hatcliff (Kansas State University, USA)
Anura Fernando (Underwriters Laboratories, USA)
Kim Fowler (Kansas State University, USA)
Sandy Weininger (U.S. Food and Drug Administration, USA)

Product Compliance under European Law - System, sanctions, current issues Presentation Only
Susanne Wende (Noerr LLP, Germany)

10:50 AM - 11:50 AM

Lesson Learned from Battery Failures Presentation Only
Alvin Wu (Underwriters Laboratories Taiwan Co., Ltd., Taiwan)

Laser Illuminated Projectors: Science, Safety and Regulations Presentation Only
Casey Stack (IEC TC-76 ANSI Z36, USA)

Safety of Medical Robots Presentation Only
Steve Deibele (O'Brien Compliance Management, USA)

Consumer Product Safety Compliance - The Current State of CPSC Safety Programs Presentation Only
Charles Joern (Joern Law Firm, USA)

1:10 PM - 2:10 PM

Risk Assessment as a Design Tool for Safety Compliance Presentation Only
Stefan Mozar (UNSW, Sydney, Australia)

Computational Analysis of Electrical Shock Hazard and Safety Evaluation using Human Body Models	Presentation Only
<i>Hai Jiang (Underwriters Laboratories, USA)</i>	
<i>Paul Larsen (ANSYS Inc., USA)</i>	
<i>Marc Horner (ANSYS Inc., USA)</i>	
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<i>Steve Deibele (O'Brien Compliance Management, USA)</i>	
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<i>Gary Tornquist (Microsoft Corporation, USA)</i>	
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<i>Tim Lueth (Technische Universität München, Germany)</i>	
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<i>Rakesh Vazirani (TUV Rheinland, Hong Kong)</i>	

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Bradley Willard (Zebra Technologies, USA)

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Paul Robinson (IBM Australia, Australia)

UL 61800-5-1 Drive Safety Standard Presentation Only
Seth Carlton (UL LLC, USA)
Matt Mollen (UL LLC, USA)

Application of HBSE to the fire risk of clothes dryers Presentation Only
Suzanne Smyth (Exponent Failure Analysis Associates, USA)
Delmar Morrison (Exponent, USA)
Brenton Cox (Exponent, USA)

Product Compliance Management – A Tool Box to Comply with Legal Obligations..... Presentation Only
Michael Loerzer (Globalnorm GmbH, Germany)

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David Dini (UL LLC, USA)

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Dae-Won Chung (Honam University, Republic of Korea)

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Dennis Bartelt (Go Global Compliance Inc., USA)
Peter Merguerian (Go Global Compliance Inc., USA)

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Battery Certification For Large Format Applications Presentation Only
Stephen McVay (Intertek, USA)

Assessing Hazards of Systems vs. Products: Case Study of Roof- Mounted Photovoltaic Panels and Fire Testing to ANSI/UL 1703 Presentation Only
Gregory Allen (Intertek, USA)

When do wearable electronics become medical devices? Presentation Only
Ted Eckert (Microsoft Corporation, USA)

1:50 PM - 2:50 PM

Global Certification Requirements for Grid Connectivity:
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Haiwen Liu (Intertek, USA)

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