



2ND INTERNATIONAL SYMPOSIUM

ELECTRICITY AND SAFETY IN THE 21ST CENTURY

NEW TECHNOLOGIES, APPLICATIONS AND STANDARDS

FRANKFURT/GERMANY, KAP EUROPA - OCTOBER 13, 2016

PROGRAMME

Conference Focus

The industrial use of electricity has always been the driving force for our economic development. This ranges from energy supply to the social networks of modern communication, which would be inconceivable without electric current.

Electric current, however, can also present hazards if it is not applied safely. New technologies are emerging rapidly and are associated with new electrical risks. To ensure that people can work safely with these technologies we need to identify the new risks, develop best practices and prevention measures and implement them.

In this context, electrotechnical standardization makes a crucial contribution towards providing a high level of protection for people and property. This protection level must also be safeguarded for new technologies and applications.

The Symposium addresses topics where science and industry must join forces with standardization to ensure the safe generation, distribution and use of electricity.

Conference Topics

- Electropathology
- Arc faults
- Electric shock
- Electromobility
- Functional safety
- Standardization

Audience

- Standardization experts
- OSH specialists
- Research and science
- Industry and commerce

Organized by

- VDE Association for Electrical, Electronic & Information Technologies e.V. www.vde.com/en
- DKE German Commission for Electrical, Electronic & Information Technologies of DIN and VDE – www.vde.com/en/dke
- BG ETEM German Social Accident Insurance Institution for the energy, textile, electrical and media products sectors – www.bgetem.de
- ISSA International Social Security Association –Section for Electricity – www.issa.int/de/web/prevention-electricity/about
- KAN German Commission for Occupational Health and Safety and Standardization www.kan.de/en/

Venue

Kap Europa (next to Frankfurt Fair), Room Satellit
Osloer Str. 5, 60327 Frankfurt/Germany
www.kapeuropa.de/en/welcome/

Registration

Please register by September 28, 2016 at
www.electricity-safety.info.
Participation in the Symposium is free of charge.

Contact

Jennifer Papantuono, Office of the ISSA Electricity Section,
Gustav-Heinemann-Ufer 130, 50968 Köln/Germany
Tel. +49 221/3778-6031
E-Mail: electricity@bgetem.de

80th IEC General Meeting 2016

The 80th IEC General Meeting is the annual event highlighting international standardization activities in the electrotechnical sector. Like its predecessors, the 80th IEC General Meeting 2016 will host numerous technical meetings designed to drive forward current standardization projects. It is held in various locations around the city of Frankfurt am Main from October 10 to 14, 2016.

<http://iec2016.org>

www.electricity-safety.info



2ND INTERNATIONAL SYMPOSIUM

ELECTRICITY AND SAFETY IN THE 21ST CENTURY

NEW TECHNOLOGIES, APPLICATIONS AND STANDARDS

FRANKFURT/GERMANY, KAP EUROPA - OCTOBER 13, 2016

Programme

09:00 **Opening**

Dr. Jens Jühling, BG ETEM

■ Arc Faults

09:10 **DC arc flash hazards**

Dr. Holger Schau, TU Ilmenau

09:30 **Types of electric arc. Arc ratings ATPV, EBT and ELIM determined from open arc testing**

Mr. Mikhail Golovkov, ArcFlash-CRT

■ New Technologies

09:50 **Safety of Lithiumion Batteries and Stationary Energy Storage systems – remaining standardization gaps**

Mr. Wilfried Schulz, CONSULTANT Power Supply-Product Safety-Batteries

Mr. Thomas Timke, KIT

10:10 **Charging of electric vehicles according to IEC 60364-7-722**

Mr. Georg Lubber, Siemens AG

10:30-10:50 Coffee Break

■ New Technologies – continued

10:50 **Special safety aspects for works at PV systems**

Mr. Adrian Häring, SolarEdge Technologies GmbH

■ Functional Safety

11:10 **Functional safety & Security – Latest Developments**

Mr. Michael Teigeler, DKE

11:30 **Application of Functional Safety within IT systems as a way to improve safety and availability of electricity**

Mr. Franck Gruffaz, Schneider Electric Industries SAS

Mr. Didier Segura, Schneider Electric Industries SAS

Mrs. Isabelle Gal, Schneider Electric Industries SAS

12:00 **Construction and administration of IT-Systems for functional safety**

Mrs. Catherine Körbächer, Bender GmbH

12:20-13:50 Lunch Break

■ Standardization

13:50 **Roles of responsibility set by EN 50110 – Operation of electrical installations**

Mr. Andreas Lantwin, Westnetz GmbH

14:10 **Risk based standards – Limits of a pain and injury based approach**

Mr. Corrado Mattiuzzo, KAN

■ Protection Against Electric Shock

14:30 **The European approach to the operation and safety of electric fences**

Mr. Valery Hamm, LACME

14:50 **Basic Safety Publication: IEC 61140 – Protection against electric shock; Latest edition from 01-2016**

Mr. Reinhard Pelta, Siemens AG

15:10 **Lightning Injuries: Mechanisms and Consequences**

Dr. Chris Andrews, School of Medicine, University of Queensland

15:30-15:50 Coffee Break

■ Protection Against Electric Shock – continued

15:50 **Determination of current density distributions in human bodies**

Mr. Tobias Seckler, RWTH Aachen

16:10 **Disconnecting times for protection against electric shock – common aspects for installation and equipment**

Mr. Reinhard Hirtler, ESF Vienna

16:30 **Panel Discussion**

Facilitator: *Dr. Jens Jühling, BG ETEM*

16:50 **Closing**

Dr. Jens Jühling, BG ETEM

17:00 **End**

www.electricity-safety.info