



Program of the conference

Day 1 – Monday, 14th September 2015

- 9:00 am Check-in, welcome coffee and visit to the exhibition
- 9:30 am Start of the conference with an introductory welcome from the presenter Dr. Jörg Lantzsch, Agentur Dr. Lantzsch, Germany
- 9:35 am Welcome speech, Prof. Dr. Steffen Grossmann, Dresden University of Technology
Welcome speech through the city of Dresden, Hartmut Vorjohann, Mayor of Dresden
- 9:50 am Dr. Robert Wilkins, Electrical Engineering Consultant, United Kingdom
The story of 40 years of experience with ICEFA

Reducing Arc Fault Hazards by means of Fuses

- 10:20 am Dr. Holger Schau, Technical University of Ilmenau, Germany
Coordination of LV Fuses and PPE for personal protection against the thermal hazards of electric fault arcs
- 10:50 am Dr. Arnd Ehrhardt, Dehn + Söhne GmbH + Co. KG, Germany
Reduction of the arc fault energy during live working thanks to the interaction of fuses and a modular protection system
- 11:20 am Dr. Robert Wilkins, Electrical Engineering Consultant, United Kingdom
Simple Improved Equations for Arc Flash Hazard Analysis
- 11:50 am *Lunch and dialogue break, visit to the exhibition*

Fuse Coordination and Equipment Protection

- 1:30 pm Volker Seefeld, Siemens AG, Germany
New IE2/IE3/IE4 energy-saving motors – influence on coordination of fuses
- 2:00 pm Prof. Norbert Grass, Technische Hochschule Nürnberg, Germany
Protection of Power Electronic Multi Converter Systems in AC and DC Applications
- 2:30 pm Prof. Thomas Gräf, Hochschule für Technik und Wirtschaft Berlin, Germany
Damage avoidance due to the use of high voltage fuses and temperature monitoring
- 3:00 pm *Coffee and dialogue break, visit to the exhibition*

Innovative Fuse Design

- 3:45 pm Mitja Koprivsek, ETI Elektroelement d.d., Slovenia
Triggered Fuse
- 4:15 pm Dr. Herbert Bessei, fuseXpert, Germany
Felix Glinka, IFHT, RWTH Aachen University, Germany
Smart Fuses for Smart Grids
Consideration about the need, potential product features and feasibility
- 4:45 pm Mitja Koprivsek, ETI Elektroelement d.d., Slovenia
Fuse with integrated varistor or varistor with integrated fuse
- 5:15 pm End of the first conference day
- 6:45 pm *A joint event in the evening on a steamboat*



Program of the conference

Day 2 – Tuesday, 15th September 2015

Fuse Performance in New and Extreme Applications

- 10:00 am Start of the conference – review of the previous day
Presenter Dr. Jörg Lantzsch, Agentur Dr. Lantzsch, Germany
- 10:15 am Reinhard Lehmann, SMA Solar Technologie AG, Germany
Mission profile of NH-Fuses for PV inverter applications
- 10:45 am Prof. Peter Birkner, Bergische Universität Wuppertal, Germany
Autonomous Distribution Grids of the Future - The specific Role of Fuses
- 11:15 am Presenter Dr. Herbert Bessei, fuseXpert, Germany
Introduction of the exhibitors and their products
- 11:45 am *Lunch break*
- 12:45 pm Dr. Kimberly Wakelin, Eaton, United Kingdom
Fuse-link protection in the challenging and extreme conditions of HEV environments
- 1:15 pm Nigel Nurse, Eaton, United Kingdom
The challenges for fuse links in the protection on Photovoltaic systems
- 1:45 pm Jean-Louis Gelet, MERSEN France SB SAS, France
Characterization of fuses for application under high di/dt
- 2:15 pm *Coffee and dialogue break, visit to the exhibition*

Design, Testing and Standards

Presenter of the conference: Dr. Herbert Bessei, fuseXpert, Germany

- 3:15 pm Volker Seefeld, Siemens AG, Germany
Parallel connection of Fuses
- 3:45 pm Prof. Hans-Dieter Liess, University of the Bundeswehr Munich, Germany
Endurance of Fuses under impulse load
- 4:15 pm Jean-Louis Gelet, MERSEN France SB SAS, France
Protection against external faults in VSI
- 4:45 pm Christian Kühnel, Dresden University of Technology, Germany
The influence of important ageing mechanisms on long-term behavior and reliability of fuse links at higher temperatures
- 5:15 pm End of the second conference day
- 6:00 pm *Sightseeing tour in Dresden, afterwards dinner at the Pulverturm*



Program of the conference

Day 3 – Wednesday, 16th September 2015

Fuse Standards, Modeling and Testing

- 9:45 am Start of the conference – review of the previous day
Presenter Dr. Herbert Bessei, fuseXpert, Germany
- 10:00 am Prof. Michael Igel, University of Applied Sciences Saarbrücken, Germany
Felix Glinka, IFHT, RWTH Aachen University, Germany
A generic model for fuses to calculate the transients in low-voltage power networks
- 10:30 am Michael Altenhuber, ETEMA Electronic Consulting, Austria
Guidance for the application of low voltage fuses
IEC 60269-5 Technical Report, Ed 2.
- 11:00 am Panel Workshop
Requirements for PV Array and Sub-array fuses Experience with PV fuses in large grid connected solar power generators suggest a revision of IEC 60269-6 with respect to the requirements for array and sub-array fuses.
Experts involved in PV fuse development, application and standardization are invited to contribute their knowledge to a fruitful discussion and to elaborate proposals to be submitted to standardization committees.
- 11:30 am *Coffee and dialogue break, visit to the exhibition*
- 12:30 pm Dr. Petros Karaisas, T.E.I. Piraeus Dept. of Electrical Engineering, Greece
Experimental evaluation of the magnetic pressure in thin wire elements during fusion process
- 1:00 pm Dr. Petros Karaisas, T.E.I. Piraeus Dept. of Electrical Engineering, Greece
Resistivity variation during fusion process of thin wire elements
- 1:30 pm Harald Kownatzky, EFEN GmbH, Germany
Highest level of professional training on circuit protection
- 2:00 pm Time for discussion
- 2:15 pm Planned end of the event
- 2:30 pm Meeting of the Fuse-Club/next ICEFA Meeting