ABSTRACT SUBMISSION

• The official language of the conference is English (with simultaneous translation into German).
• Prospective authors can submit an abstract (200 words maximum) in pdf-format using the following link: www.icec2014.org
• All submitted abstracts should include: Technical Area, Title, Authors Name(s), Authors Affiliation(s), Type: Oral or Poster, Corresponding Author: Name, e-mail Address, Telephone Number, Fax Number
• The proceedings will be published by VDE Verlag and all accepted papers will be included in IEEE Xplore.
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ORGANIZER

VDE, Association for Electrical, Electronic & Information Technologies
ETG, the Power Engineering Society within VDE
ITG, Information Technology Society within VDE

Important Dates:
Abstract Deadline: September 1, 2013
Notification of Acceptance: November 1, 2013
Deadline for final paper: February 15, 2014
Conference: June 22 – 26, 2014

DRESDEN
The city of museums, theatres, business and research

The city of Dresden, known as „the baroque city“, has a history of 800 years. Several world famous landmarks are the Zwinger, the Frauenkirche, and the Castle.

Forty museums and many private galleries mainly dedicated to contemporary art have given Dresden the reputation of being a city of culture and the arts.

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It's not only the arts that have a long tradition in Dresden, but also innovative ideas and creativity. Infineon, Advanced Micro Devices and Motorola have settled here, making Dresden a leading high tech location in Europe. The city on the river Elbe is home to more than 120 research facilities, turning it into one of the largest scientific hubs in Germany.

TU Dresden is among the top universities in Germany. With 36,500 students (as of 2012), it is the largest university in Saxony.

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Call for Papers

The 27th International Conference on Electrical Contacts
ICEC 2014 Dresden, Germany

Call for Papers

June 22 – 26, 2014
International Congress Center Dresden (ICD) & MARITIM Hotel
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Frauenkirche
Semper Opera House
The 27th International Conference on Electrical Contacts will be held from June 22 - 26, 2014 at the International Congress Center Dresden, Germany. The first ICEC was organized by Dr. Ragnar Holm and Prof. R. E. Armington and held at the University of Maine in 1961. Since then, ICEC has been held in Germany three times (Munich, Berlin, Nuremberg).

The purpose of the ICEC 2014 in Dresden is to provide a forum for the presentation and discussion of the latest research and development in the field of electrical contacts and other related fields while promoting an exchange of scientific and technical knowledge between specialists from all over the world.

Throughout its history, the ICEC has greatly contributed to the development of this field and to the promotion of international collaboration.

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TECHNICAL AREAS
1. Fundamentals
   - Conduction & Contact resistance
   - Contact design & Surface finishing
   - Sliding & Fretting
   - Switching behaviour
   - Thermal effects
   - Diffusion

2. Environmental Effects
   - Impact & Vibration
   - Corrosion
   - Contamination and Particles (incl. dust)
   - Degradation mechanism

3. Materials and Design
   - Contact materials
   - Base materials
   - Switching in air and vacuum
   - High frequency relays
   - Ultra miniature relays
   - Carbon fiber
   - Reed relay
   - Surface coating
   - Contacts for automotive applications
   - Reduction of noble metal use

4. Connectors
   - High frequency
   - High speed data
   - Degradation mechanism
   - Lubricants
   - Base materials and plating technology
   - Aluminium Interconnections

5. New Technology
   - MEMS
   - Micro switches
   - Nano-Technology in connections
   - Nano contacts
   - High DC voltage switching
   - Super conductor connections
   - Arc Fault Safety

6. Reliability
   - Diagnostics & Testing
   - Degradation mechanism
   - Life prediction
   - Permanent contact – soldering, welding, crimping
   - Reliability of electrical products

7. Modeling and Simulation
   - Thermal and magnetic effects
   - Environmental effects
   - Dynamic welding
   - Arcing behaviour

8. Power contacts
   - Crimp terminals
   - Bus bar
   - Glowing contacts

9. Sliding contacts
   - Slip ring/brush
   - Materials
   - Lubricants

10. Arc interruption/Design
    - Circuit breakers
    - Vacuum interrupters
    - Contactors
    - Magnetic blowing
    - Hybrid switches
    - Super-conduction limiters
    - Micro-arching