



PowerTech 2009

28 June - 2 July 2009, Bucharest, Romania

- Innovative ideas toward the Electrical Grid of the Future -

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Invitation

On behalf of the International Steering Committee and the Local Organizing Committee we invite you to attend the IEEE BPT2009. The Bucharest PowerTech Conference continues the tradition of the Power Tech Conferences held in odd years in Athens, Stockholm, Budapest, Porto, Bologna, St. Petersburg and Lausanne. PowerTech is the anchor conference of the IEEE Power & Energy Society in Europe. It is intended to provide a forum for scientists and engineers interested in electric power

engineering to share ideas, results of their scientific work, to learn from each other as well as to establish new friendships and rekindle existing ones.

The PowerTech Conference provides a bridge between generations. The interest from enthusiastic young practicing engineers and PhD students wishing to publish their work increased from event to event. The most valuable IEEE student work is recompensated with the Basil Papadias award, which has been also an important ingredient toward the event's success.

The event is sponsored by the IEEE Power & Energy Society and will be organized by University POLITEHNICA of Bucharest, National Power Grid Company TRANSELECTRICA S.A. and IEEE PES Romania Chapter.



University
POLITEHNICA
of Bucharest



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IEEE Bucharest PowerTech Conference

28 June – 2 July, 2009

Provisional^{*)}

Technical Program

^{*)} Some sessions may shorten in case of non-registration

Session: Protection Systems II

Chair:

Room: “Drepturile Omului” Hall – HR

Time: Monday, June 29, 16.15 – 18.00

- 13 **A New Transformer Hysteresis Model in MATLAB™ Simulink**
Okan Ozgonenel (Ondokuz Mayıs University, Turkey), Hasan Dirik (Ondokuz Mayıs University, Turkey), Irfan Guney (Acibadem University, Turkey), Omer Usta (İstanbul Technical University, Turkey)
- 72 **Sensitive Protection of Power Transformers for Internal Inter-Turn Faults**
Andrzej Wiszniewski (Wroclaw University of Technology, Poland), Waldemar Rebizant (Wroclaw University of Technology, Poland), Ludwig Schiel (Siemens AG, Germany)
- 156 **Application of Discrete Wavelet Transform for Differential Protection of Power Transformers**
Mario O. Oliveira (Federal University of Rio Grande do Sul, Brazil), Arturo S. Bretas (Federal University of Rio Grande do Sul, Brazil)
- 162 **Optimal Radial Basis Function Neural Network Power Transformer Differential Protection**
Manoj Tripathy (National Institute of Technology Allahabad, India)
- 187 **Protection of oil-filled Transformer against Explosion: Numerical Simulations on a 200 MVA Transformer**
Sébastien Muller (SERGI Holding, France), Margareta Petrovan Boiarciuc (SERGI Holding, France), Guillaume Perigaud (SERGI Holding, France)
- 380 **Effects of Current Transformers Saturation on Coordination and Operation of Distance Relays, a Glance From New Angle**
Farzad Razavi (Tafresh University, Iran), Hadi Hosseinian (Zanjan University, Iran), Hossein Askarian Abyaneh (Amir Kabir University of Technology, Iran), Amir Bagheri (Zanjan University, Iran)
- 784 **Current Differential Relay with a Power-Current Spectrum Blocking for Transformer Protection**
Hatem A. Darwish (Menoufiya University, Egypt)

