

PROGRAM of the EEUG MEETING 2009

25 October 2009

18:00 – 19:00 Welcome Reception (Delft Pottery)

TECHNICAL SESSIONS

(26 October 2009)

8:30 Registration

9:00 – 9:25 Opening Ceremony

Prof. Dr. Hassan Nouri (EEUG Chairman)

Dr. Marjan Popov (EEUG 2009 Conference Chairman)

Prof. Dr. Daan Lenstra (Dean of the Faculty of Electrical Engineering, Mathematics and Computer Science)

Session I (Chairs: Akihiro Ametani, Mustafa Kizilcay)

9:30 Optimization of Cost Functions in ATPDraw (H. Kr. Hoidalén, D. Radu, D. Penkov)

9:50 WindSyn U.M. Type-1 with Built-in Exciters and Governors (G. Furst)

10:10 A Data-Based ATP Simulated Waveforms of Shunt Reactor Switching Cases with Vacuum Circuit-Breaker (S.Cheong Kam, Gerard Ledwich)

10:30 ATP/EMTP Simulation for Mitigation of Lightning Overvoltages at Customer Entrance (N. Sabiha, M. Lehtonen)

10:50 – 11:05 Coffee break

Session II (Chairs: Hans Kr. Hoidalén, Mirko Bodach)

11:05 Design a Multi-Phase Power Transmission System By means of ATP-EMTP (H. Brakelmann, T. Dong)

11:25 Optimization of High Voltage Impulse Test Systems using ATP simulation (M. Hinow, M. Birle)

11:45 Analysis of Ferroresonance Phenomenon in HV Inductive Voltage Transformer with Modified Core Using ATP-EMTP (M. Stosur, W. Piasecki, M. Florkowski, M. Fulczyk, B. Lewandowski)

12:05 On the Impedance and the Admittance in the EMTP Cable Constants/Parameters (A. Ametani)

12:25 – 13:45 LUNCH

Session III (Chairs: Laszlo Prikler, Harald Wehrend)

13:45 Simulation Performance of Induced Voltages on Power Distribution Line due to Lightning Discharge to nearby Tree (M. A. Omidiora, M. Lehtonen)

14:05 Simulation of Short Circuit and Lightning Transients on 110 kV Overhead and Cable Transmission Lines Using ATP-EMTP Software (P. Maric, S. Nikolovski, L. Prikler)

14:25 Comparison of Mitigation Techniques for Back-Flashovers on 110-kV Lines at Multi-Circuit Overhead Line Towers (M. Kizilcay)

14:45 Investigation on Transient Overvoltage In Muara Tawar 500 kV EHV S/S Extension Projects (A.P. Purnomoadi, H. I. Septiyani, H. Maryono, D. Fransisco)

15:05 Study on Fast Transients of Communication Cable Interconnections (A. Sleiman Ahmad and T. Aka-Ngnui)

15:25 – 15:40 Coffee break

Session IV (Chairs: Hassan Nouri, Marjan Popov)

15:40 Modeling of Extra High Voltage 500 kV Paiton-Kediri Transmission Lines Using Electromagnetic Transient Program (E.J. Pramono, R. Zoro)

16:00 Breaking Capability of a SF₆ Circuit Breaker for Short Circuits Close to a Generation Unit with Delayed Current Zero Crossing (M. Kizilcay)

16:20 EMTP-ATP Investigations of Earth-Fault Transient Simulation in Realistic Finnish 21 kV Overhead Line Medium Voltage Network (M. F. Abdel-Fattah, M. Lehtonen)

16:40 A Novel Earth Fault Detection Technique Based on Transient Component of the Superimposed Phase Currents (M. F. Abdel-Fattah, M. Lehtonen)

End of day 1

18:00 - 23:00 Banquette Dinner (Schaapskooi)

TECHNICAL SESSION
(27 October 2009)

Session V (Chairs: Vladimir Terzija, Lou van der Sluis)

8:45 ATP/EMTP Bench Test for Evaluating Directionality-Based Selectivity Technique in MV Networks (N. I. Elkalashy, A.M. Elhaffar, H.A. Darwish, M. Lehtonen)

9:05 ATP-EMTP Evaluation of a New Fault Location Algorithm for Three-terminal Transmission Lines Without Knowing Line Parameters (C.A. Apostolopoulos, G. N. Korres)

9:25 Experience on Evaluating Transformer Numerical Differential Relay Algorithm Using ATP-EMTP (Case: Indonesian 500 kV System) (S. Felienty, Y. Hakim, F. Yusivar, M. Roekman)

9:45 Modeling of Short Circuit Fault Arc in 150 kV System and Its Influence on The Performance of Distance Protection (H. Wihartady, M. Popov, L. van der Sluis, V. Terzija)

10:05 The Impact of CTs Transformation Errors on Transmission Line Differential Protection Performance - ATP Simulation Study (M. Lukowicz, M. Michalik)

10:25 – 10:40 Coffee break

Session VI (Chairs: Matti Lehtonen, Michael Igel)

10:40 Modeling of Internal Faults in Three-phase Three-winding Transformers for Differential Protection Studies (D. Dakhlan, M. Popov)

11:00 A New EMTP Model of the Long Arc in Free Air (V. Terzija, G. Preston, M. Popov, Z. Radojevic)

11:20 Underground Cable Fault Location Using Distributed Parameter Approach (M.M. Alamuti, H. Nouri)

11:40 Hybrid Transient Based Protection Scheme for Distribution Grids Supplied with Distributed Generation (I. Xyngi, M. Popov, L. van der Sluis)

12:00 – 13:15 LUNCH

Session VII (Chairs: Gabor Furst, Marek Michalik)

13:15 Comparison of Transmission Line Models with Regard to Modelling and Simulation of the Interaction between AC and DC Overhead Lines (M. Kizilcay, A. Agdemir)

13:35 EMTP-ATP Representation of Three Phase PD Monitoring Systems for Overhead Covered Conductor in Finnish Distribution Lines (M. Isa, G.M. Hashmi, M. Lehtonen)

13:55 Simulation of Photovoltaic Systems in LV- Power Networks Using Models of ATP (M. Igel, S. Winternheimer)

14:15 Fluorescentlamps modelling in ATPDraw (O. N. Craciun, D. Radu, S. Bacha)

14:35 Development of Diagnostic and Prognostic Algorithms for SF₆ Puffer Circuit Breakers from Transient Waveforms: a Validation Proposal (S. cheong Kam, Gerard Ledwich)

End of the Technical Program

15:00 – 18:30 EMTP Members' Annual Meeting

End of Day 2

EMTP-ATP Course
(28 October 2009)

9:00 – 10:15 Modeling and Control of Wind Turbines based on Doubly-fed Induction Generators with ATP-EMTP and ATPDraw (Dr. Piergiovanni La Seta, Siemens AG, E D SE PTI NC, Germany)

10:15 – 10:30 Coffee break

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12:15 – 13:30 LUNCH

13:30 – 14:45 Modeling of Photovoltaic Generators, Storage Systems and Electrical Cars in the Low Voltage Grid (Prof. Dr. Mirko Bodach, Westsächsische, Hochschule Zwickau, Germany)

14:45 – 15:00 Coffee break

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End of Day 3