

PROGRAM MPS 2006

Wednesday, 08 November 2006,

16⁰⁰ – 20⁰⁰

Registration – Belvedere Hotel

20⁰⁰

Welcome Cocktail - Belvedere Hotel

Thursday, 09 November 2006

9⁰⁰ - 9³⁰

Conference Opening

9³⁰ - 11⁰⁰

SECTION T2 – MODERN EXPLOATATION, COMMAND, CONTROL AND PROTECTION SYSTEMS

Chairmen: Mircea GUȘĂ, Sorin PAVEL

1. M. CREMENESCU, C. ERBASU, V. IVAN, *Electrical Equipment Remote Control – Part of the Substation Remote Controlling and Supervising Implementation*
2. M. GUȘĂ, M. ISTRATE, *Overhead Lines Lightning Behaviour Improving with Metal-Oxide Arresters.*
3. M. ISTRATE, M. GUȘĂ, I. HRISCU, A. MIRON, *First Tripping Zone of Distance Relaying in an ATP-MODELS Approach*
4. M. TĂMAȘ, E. MERDAN, D. COSTEA, C. MUNTEANU, *The Protection against Industrial Frequency Overvoltages in Low-Voltage Electrical Networks*
5. G. VISAN, V. COMANESCU, *Transmissions Substations Control and Protection Systems Retrofitting.*
6. Irina RACOVITAN, I. IONESCU, *Improvement of the Medium and High Voltage Circuit Breaker Maintenance Process by Means of the Off-Line Diagnosis Techniques*

SECTION T6 – GENERAL ELECTROTECHNICS I

Chairmen: Vasile TOPA, Eugenio GARCIA MORENO

1. V. TOPA, J. DECONINCK, L. MAN, M. PURCAR, C. MUNTEANU, Laura GRINDEI, G. DE MEY, *Shape Optimization of Electric Structures based on the Extended Finite Element and Level Set Methods*
2. A. NOTHOLT, Debora COLL-MAYOR, A. ENGLER, E. GARCÍA-MORENO, *Development of a Grid Simulator*
3. P. G. POP, E. LUPU, M. ROMAN, *Computer Aided Design in Induction Hardening*
4. Laura CRET, Mihaela PLESA, D. D. MICU, *Magnetic Coils for Localized Stimulation of the Central Nervous System*
5. C. CURTA, Anca-Iulia NICU, Mihaela PLESA, *Magnetic Neural Stimulators – Comparative Study*
6. Claudia RACASAN, V. ȚOPA, Adina N. RACASAN, C. MUNTEANU, Oana ANTONESCU, *HF Interconnects Inductance Calculation*

11⁰⁰ - 11³⁰

Coffee Break

11³⁰ - 13⁰⁰

SECTION T2 – MODERN EXPLOATATION, COMMAND, CONTROL AND PROTECTION SYSTEMS

Chairmen: Dumitru TOADER, Ioan FELEA

1. I. FELEA, N. COROIU, I. BOJA, I. MANEA, D. ALBUT-DANA, E. BARLA, *Electric Switchers Parametrical Reliability Evaluate of an Electric Energy Distribution Zone*
2. I. FELEA, D. POPOVICI, D. PETRESCU, G. BENDEA, S. POPOVICI, *The Reliability Centered Maintenance Database of Urban Medium Voltage Networks*
3. F. ERCHAN, *The Problem of the Reliability of the on Electric Power Equipment and the Factors which Influence It*
4. A. RUSU, A. MIRON, B. GUZUN, *Optic Metering Transformers Utilization in Modern Substations*
5. D. SARCHIZ, O. GEORGESCU, D. BUCUR, *The Modeling of Reliability Optimization of Power System*
6. Ana-Maria DUMITRESCU, A. I. CHIRILĂ, I. D. DEACONU, *Implementation of SCIG Wind Turbine Control System*

SECTION T6 – GENERAL ELECTROTECHNICS II

Chairmen: Emil SIMION, Mihai IORDACHE

1. M. IORDACHE, Lucia DUMITRIU, D. NICULAE, *A New Reduced-Order Technique Based on State Equation State*
2. E. MAN, A. VIOREL, L. MAN, *Adapting the Impedance Using Non-Dissipative Two-Ports*
3. D. D. MICU, A. CECLAN, D. MICU, E. SIMION, Laura CRET, *Stability Studies of Electrical Circuits using Wielandt - Kantorovitch inequality*
4. M. ROMAN, F. ROMAN, *Fast Convergence of Iteration Process Based on Multigrid Methods in Technical Applications*
5. E. E. SIMION, *Exploring computation hierarchy and distribution in sensor networks*

Thursday, 09 November 2006

13⁰⁰ – 15⁰⁰

Lunch Break

15⁰⁰ – 16³⁰

SECTION T3 – ENERGY MARKET AND ENERGY MANAGEMENT

Chairmen: *Hermina ALBERT, Anca POPESCU*

1. Anca POPESCU, Hermina ALBERT, G. LAVROV, *Considerations on NPS Development Planning under Current Electricity Market Conditions*
2. V. VARVARA, *The Coefficients of Non-Symmetry and Power Factor Computation in Star Connected Networks that Operate in Non-symmetrical Steady States*
3. Simona Louise VORONCA, *Enterprise Risk Management: Company's Risk Profile*
4. Simona Liliana SOARE, *Risk Modeling for Energy – One Step for Energy Management Tend to Energy Market*
5. I. ARDELEAN, *A Long Term Viable Alternative of "Energy Hunger" – Regenerable Energy Sources Capitalization*
6. I. MIRCEA, Felicia IVAN, *Economical Analyzes of Energetically Efficiency Problems*
7. F. PAYAM, D. MIRZAEIAN, *Green Power Marketing: Concepts And Considerations*

SECTION T6 – GENERAL ELECTROTECHNICS III

Chairmen: *Calin RUSU, Renato RIZZO*

1. A. ARGESSEANU, Ileana TORAC, *Innovative Concept of a New Absolute Encoder for Long Displacement Linear Motor Applications*
2. Ileana TORAC, A. ARGESSEANU, *Analyze of a Solution for the Squirrel Cage Induction Motor Efficiency Improvement*
3. I. BIROU, C. RUSU, *Robust Sensorless Control: From MRAS Algorithms to H_{∞} Theory*
4. A. S. GAVRIS, D. M. IUDEAN, R. A. MUNTEANU, G. AROQUIADASSOU, *Vector Control of a Six Phase Inverter for Future Applications in Electrical Assisted Direction*
5. Rodica CREȚ, *Considerations Regarding Dielectric Relaxation Models*
6. S. V. MISCHIE, I. MIRCEA, P. M. MIRCEA, *Digital Analogical Excitation Systems between Different Computerising Representation Models for Transfer Function (Type st1a, st5b and ac5a)*

16³⁰ – 17⁰⁰

Coffee Break

17⁰⁰ – 18³⁰

SECTION T4 – MODERN POWER SYSTEM ANALYSIS AND SIMULATION

Chairmen: *Mircea CHINDRIS, Vasilis CHATZIATHANASIOU*

1. Christina ATHANASOPOULOU, V. CHATZIATHANASIOU, Vasiliki KAMARIARI, Chrysoula PILIOU, *Multi Agent System for Identification and Reconstruction of Sensor Fault: a Thermal Power Plant Case Study*
2. G. CHICCO, Alina Georgiana RUSU, *Predictability Concepts Applied to Wind and Electrical Load Time Series*
3. M. CHINDRIS, B. TOMOIAGA, C. BUD, *A Novel Model and Object Oriented Program to Analyze the Harmonic Distortion in Power Systems*
4. P. MANCARELLA, *Characterization of Small Scale Prime Movers for Cogeneration Applications*
5. A. MARRONE, A. I. CHIRILĂ, G. CHICCO, I. D. DEACONU, *Comparing the Response of Controlled Wind Turbines under Variable Wind Speed Patterns*
6. L. N. MODRAN, *Digital Simulation of a Wind - Electric Conversion Power System*

SECTION T6 – GENERAL ELECTROTECHNICS IV

Chairmen: *Ciupa RADU, Alkis HATZOPOULOS*

1. E. LUPU, P. G. POP, M. N. ROMAN, *Low-Cost System for Biometric Signal Processing*
2. M. MUNTEANU, G. CHINDRIS, G. MUNTEAN, D. MOGA, *Wireless Transfer Possibilities for Biomedical Signals, using Virtual Instrumentation*
3. M. MUNTEANU, R. CIUPA, C. RUSU, *Filtering the ECG Signals for Removing the Outliers Values Induced by Interferences*
4. Anca-Iulia NICU, D. D. MICU, D. V. RAFIROIU, *Equivalent Circuit Method for Electrical Analysis of Biological Tissues*
5. Mihaela PLEȘA, Laura CREȚ, D. V. RAFIROIU, C. CURTA, *Remarks on the Propagation Wave Velocity of the Nervous Fiber*
6. D. RAFIROIU, Simona VLAD, R. CIUPA, *The Mechanical Heart Valves' Cavitation Potential: Experimental and Computational Approach*

18³⁰ - 19³⁰

Products presentation

20⁰⁰

Conference Dinner – Belvedere Hotel

Friday, 10 November 2006

9⁰⁰ – 11⁰⁰

SECTION T1 – MODERN POWER TRANSPORTATION AND DISTRIBUTION

Chairmen: *Mircea EREMI*A, *Virgil MAIER*

1. R. AL-KHANNAK, B. BITZER, *Grid Computing Excites Power Systems Implementations*
2. A. CZIKER, M. CHINDRIȘ, C. HOMAN, *Some Aspects of Power Cable Ageing*
3. Irina LUPUSOR, *Optimization to Functional Reliability Power Electrical Distributing Networks with Provision for Incompleteness' of Source Information*
4. V. MAIER, S. Gh. PAVEL, Corina MARTINEAC, *Principles and Methods of the Low Voltage Electrical Network Organizing*
5. C. MOLDOVAN, C. DUMITRU, *The Influence of Electrical Networks Working in Debalanced Regime over the Tension Movement of the Neutral Pole*
6. I. OPREA, *Heat Recovery in Micro Gas Turbines for Cogeneration*
7. S. POPESCU, Alexandra STANCIULICA, Simona ENE, D. CIRSTE, *Function of Low Voltage Power Distribution under Nonsymmetrical and Unsinuous Systems*
8. M. S. TIRSU, V. P. BERZAN, *Wave Processes in the High Voltage Electrical Cable*
9. V. ILEA, A. BERIZZI, M. MERLO, C. BOVO, M. EREMIA, *Implementation of Various Objective Functions for Reactive Optimal Power Flow in the Presence of the Hierarchical Voltage Control System*

SECTION T4 – MODERN POWER SYSTEM ANALYSIS AND SIMULATION

Chairmen: *Cornel TOADER*, *Andrei CZIKER*

1. D. TOADER, Șt. HĂRĂGUȘ, I. DIACONU, I. D. HAȚEGAN, P. RUȘEȚ, N. PINTE, *Digital Protective Blocks for Medium-Voltage Networks with Isolated Neutral-Point*
2. M. NEMEȘ, D. PĂUNESCU, Gh. VUC, *Analyzing the Impact of Probabilistic Load on Systems Hourly Cost*
3. R. TIRNOVAN, A. MIRAOU, R. MUNTEANU, I. VADAN, H. BALAN, *Identification of a Proton Exchange Membrane Fuel Cell (PEMFC) Using an Empirical/Mathematic Technique*
4. C. TOADER, P. POSTOLACHE, N. GOLOVANOV, M. CHINDRIȘ, *Symmetrical Components and Unsymmetrical Factors in Non-Sinusoidal Regime*
5. C. TOADER, N. GOLOVANOV, P. POSTOLACHE, R. F. PORUMB, *Electrical Power Losses in Two Windings Transformers under Unbalanced Loading*
6. A. TURCU, V. MAIER, S. Gh. PAVEL, *The Control of Asymmetry Due to High Power Mono-Phased Inductive Loads*
7. I. VĂDAN, R. TÎRNOVAN, S. ȘTEFĂNESCU, A. BOTEZAN, *Mechanical Model of an Electric System*
8. C. BĂRBULESCU, *Plasma Techniques in Airflow Control Part I: Theoretical background of Surface Dielectric Barrier Discharge*
9. C. BĂRBULESCU, J.P. CAMBRONNE, Ș. KILYENI, D. VĂTĂU, *Plasma Techniques in Airflow Control Part II: Experimental Results of Surface Dielectric Barrier Discharge*

11⁰⁰ – 11³⁰

Coffee Break

11³⁰ – 13³⁰

SECTION T3 – ENERGY MARKET AND ENERGY MANAGEMENT

Chairmen: *Viorel VARVARA*, *Marilena UNGUREANU*

1. I. BIRIȘ, Cristina DEAC, *Energetic Management – Necessary Means to a Lasting Development in Energetic Field*
2. E. CARPANETO, G. CHICCO, A. O. CIORTEA, *Assessing the Energy Payback for Groups of Loads Operating Under Thermostatic Control*
3. A. CECLAN, D. D. MICU, R. RUSU, E. SIMION, R. DONCA, F. CALUGAR, *Energy Saving Technique and Product for Public Lighting Systems*
4. C. D. DUMITRU, *Management of a System Based on Renewable Resources for Electric Power Supply of an Administrative Building*
5. F. POP, D. BEU, C. CIUGUDEANU, *Residential Energy Efficient Lighting, Compact Fluorescent Lamps Promotional Campaigns under the Frame of Romanian and European Projects*
6. Gh. INDRE, *Transmission Planning Model and Techniques*
7. P. M. NICOLAE, Ileana-Diana NICOLAE, *Recordings and numerical processings of distorting and unbalanced regimes from a large energetic group*

SECTION T5 – ELECTROMAGNETIC COMPATIBILITY

Chairmen: *Calin MUNTEANU*, *Gilbert DE MEY*

1. G. DE MEY, *Influence of the High Voltage Lines on the Induced Current in the Human Body*
2. Marilena UNGUREANU, Raluca ROSCA, A. C. RUSU, *Electromagnetic Disturbances Injected in High Voltage Networks by the Large Electrical Installations*
3. Oana ANTONESCU, C. VERMESAN, C. MUNTEANU, Adina N. RACASAN, Claudia RACASAN, L. DALE, *Numerical Simulation of the Atmospheric Disturbances Effect on the High Voltage Lines*
4. I. T. POP, C. MUNTEANU, E. SIMION, *Analysis of the Electric Field Distribution in the 400/220 kV Rosiori Power Station*
5. Ana-Maria COSTIN, C. MUNTEANU, *EMC Problems in the Development of Broadband Power Line Communication Systems*
6. Adina RACASAN, C. MUNTEANU, V. TOPA, Claudia RACASAN, Oana ANTONESCU, *Computing of the Equivalent Parallel Capacitance for EMI Filters Integration*
7. Ioana BACANCIOȘ, C. MUNTEANU, B. DEMOULIN, *Overview on the Experimental Methods of Measurement of Transfer Impedance of the Cable Trays*

13³⁰ - 14⁰⁰

Conference Closing Ceremony