



International Symposium on Electrical Engineering and Energy Converters

5th Edition

ELS 2013

September 26 - 27, 2013

Symposium program

Organized by:

Ministry of Education, Research and Innovation
Ștefan cel Mare University of Suceava
The Academy of Technical Sciences, ASTR Romania
Gheorghe Asachi Technical University of Iasi, Romania
CIGRE Romania, C4 Studies Committee
ADREM INVEST Romania
Research Center in Electrical Machines, Apparatus and Drives
Research Center in Electrical Machines for Intelligent Systems and
Automation, Iași
General Association of Engineers in Romania – AGIR
ELECTROALFA Botoșani
EGGER Rădăuți
Electrotechnic Research Institute
ISPE Bucharest
Transelectrica Romanian Power Grid Company
OPCOM Romanian Power Market Operator
E-ON Energy Romania
LIONS Suceava

ELS2013

5th INTERNATIONAL SYMPOSIUM ON ELECTRICAL ENGINEERING AND ENERGY CONVERTERS

Stefan cel Mare University of Suceava is a reputable institution situated in a beautiful region rich in unique historical landmarks. The Faculty of Electrical Engineering and Computer Science from the Stefan cel Mare University of Suceava is well known for its excellence and collaboration with other international institutions.

The 5th International Symposium on Electrical Engineering and Energy Converters **ELS2013** organized at the Faculty of Electrical Engineering and Computer Science, Stefan cel Mare University of Suceava is divided in six sections:

- A.** Transformers and Electrical Machines
- B.** Special Electromechanical Converters
- C.** Electric Drives and Automations
- D.** Power System Instrumentation and Control
- E.** Compatibility, Quality, Efficiency and Power System Security
- F.** Local and Wide Area System Monitoring: concepts, tools and awareness

During the symposium, INVENTICA Exhibition *Equipments in Electrical Engineering* will be arranged.

In the third day of the symposium will take place a workshop dedicated to "*Scientific research in electrical engineering*". Results, prospective and foreground research domains are expected to be discussed.

SYMPOSIUM PROGRAM

THURSDAY, SEPTEMBER 26, 2013

Building E, First Floor

07.00 – 08.00 Participant registration

Building E, First Floor, Conference Hall

08.00 – 09.00 Opening Session

Building E, First Floor, Conference Hall

9.00 – 11.00 Plenary Session

Prof. Aurel CÂMPEANU, DHC

Dynamic Regimes on Synchronous Machine Operation.

Prof. Nicolae GOLOVANOV

Low Frequency Fields in Electric Distribution Networks and Occupational Exposure.

Eng. Constantin PLĂCINTĂ - S.C. Bioenergy Suceava S.R.L

Walter SATTINGER

Power System Operation in a Changing Environment.

Swissgrid, Switzerland

Doina ILIȘIU, NDC, TRANSELECTRICA - CN CIGRE C4

System Technical Performance - scope, activities, structure
CIGRE Romania

Building D, Second Floor, Dimitrie Leonida Lecture Theatre

11.00 – 11.15 Book launch

Câmpeanu, A.; Caucin, I.; Vlad, I.; Enache, S.

Modelarea și simularea mașinilor electrice.

Editura Academiei, București.

11.15 – 11.30 Coffee break

Building D, Second Floor, Dimitrie Leonida Lecture Theatre

11.30 – 13.30 Round Table CIGRE

Power Quality and New Sources Integration

(Smart Grid and Smart Measurement - PMU; Requirements for Generators Related to Frequency Deviations)

Doina ILIȘIU, Călin MUNTEANU, Radu PENTIUC

13.30 – 14.30 Lunch

Building D, Second Floor

15.30 – 17.30 Sections Session

Building D, Second Floor

17.30 – 18.30 INVENTICA 2013 Exhibition - Vernissage

Equipments in electrical engineering

19.00 – 24.00 Welcome party

FRIDAY, SEPTEMBER 27, 2013

Building D, Second Floor, Dimitrie Leonida Lecture Theatre

8.00 – 9.00 Plenary Session

Prof. Eng. DHC Alecsandru SIMION PhD,

Associate Prof. Eng. Leonard LIVADARU PhD,

Lecturer Eng. Adrian MUNTEANU PhD,

Considerations on a New Mathematical Model Dedicated to DC Electrical Machine

Prof. Eng. Virgil MAIER, PhD

Phasor Models of AC Machines

09.00 – 09.15 Coffee break

Building D, Second Floor, Dimitrie Leonida Lecture Theatre

09.15 – 11.15 Round Table CIGRE

Power System Security and Wide Area System Monitoring
(Smart Grid and Smart Measurement - PMU; Requirements for Generators Related to Frequency Deviations)

Doina ILIȘIU, Marcel ISTRATE, Ovidiu MUSTAȚĂ, Radu PENTIUC

Building D, Second Floor

11.15 – 13.15 Sections Session

13.15 – 13.30 Coffee break

Social program

14.00– 14.30 Suceava – Fălticeni

14.30 – 15.00 Irimescu Museum

15.00 – 15.30 Fălticeni - Mălini

15.30 – 15.45 Accommodation - Mălini / La Filuță.

16.00 – 24.00 Dinner. Cocktail Party

SATURDAY, SEPTEMBER 28, 2013

Breakfast

9.30 – 10.30 Mălini - La Filuță

10.30 – 11.30 Workshop

Scientific research in electrical engineering

12.00 – 12.30 Nicolae LABIȘ Memorial House - Mălini

Departure

13.30 – 14.30 Trip to Slatina Monastery

15.00 – 16.00 Suceava Railway Station

Section A

TRANSFORMERS AND ELECTRICAL MACHINES

Chairmen:

Aurel CÂMPEANU

University of Craiova, Romania

Alecsandru SIMION

Gheorghe Asachi Technical University of Iasi, Romania

Ion PIROI

Eftimie Murgu University of Reșița, Romania

Elena-Daniela OLARIU

Stefan cel Mare University of Suceava, Romania

Thursday, September 26, 2013 15:30 – 17:30

Dimitrie Leonida Lecture Theatre

A-149 Ovidiu DABIJA, Alecsandru SIMION, Leonard LIVADARU,
Nicolae-Daniel IRIMIA

*Circuit Coupled – 3-D FEM Analysis of a Single-Pole Axial-Flux
Variable Reluctance Machine and Experimental Validation*

Gheorghe Asachi Technical University of Iasi, Romania

A-165 Dumitru SACERDOTIANU, Marcel NICOLA, Marian DUTA,
Claudiu NICOLA, Iulian HUREZEANU, Cătălin PIRLOG, Aurel
MELINESCU

*Wireless Technology System for Temperature Rise Verification of Power
Transformers, Using LabView Programming Environment*

Research, Development and Testing National Institute for Electrical
Engineering - ICMET Craiova, Romania

A-166 Aneta HAZI, Gheorghe HAZI, Sorin-Gabriel VERNICA

Solution Heat Recovery from the Power Transformer Oil

Vasile Alecsandri University of Bacău, Romania

A-176 Elisabeta SPUNEI¹, Laurențiu PĂDEANU^{1,3}, Florina PIROI²,
Ion PIROI¹, Gheorghe LIUBA¹

*Research on Decreasing the Cost Price for the Synchronous
Hydrogenerator*

¹”Eftimie Murgu” University of Reșița, Romania

² Vienna University of Technology, Austria

³ Technical University of Timișoara, Romania

A-177 Ovidiu DABIJA, Alecsandru SIMION, Leonard LIVADARU, Nicolae-Daniel IRIMIA
Electromechanical Conversion in a Single-Pole Axial Flux Variable Reluctance Motor Using 3-D FEA and the Notions of Load Angle and Electromechanical Cycle
Gheorghe Asachi Technical University of Iasi, Romania

A-178 Sorin VLĂSCÉANU, Alecsandru SIMION, Leonard LIVADARU, Florin LAZĂR, Nicolae-Daniel IRIMIA
Comparative Study Based on FEM Analysis between Squirrel Cage and Wound Rotor of a Three-Phase Induction Motor
Gheorghe Asachi Technical University of Iasi, Romania

A-181 Adrian MUNTEANU¹, Leonard LIVADARU¹, Alexandru SIMION¹, Bogdan VIRLAN², Bogdan ANGHEL¹
Influence of the Stator Winding on the Performance of a Five-Phase PMSG
¹Gheorghe Asachi Technical University of Iasi, Romania
²S.C. FOCALITY S.R.L. Iași, Romania

A-182 Daniela IRIMIA, Crenguța BOBRIC, Leon MANDICI
Analysis of Structures Used to Obtain Uniform Magnetic Field
Stefan cel Mare University of Suceava, Romania

A-190 Marcel BURDUNIUC, Tudor AMBROS
The Start of Asynchronous Engine without Phase Shift Element
Technical University of Moldova, Republic of Moldova

A-191 Marcel BURDUNIUC
The Starting of Single-Phase Induction Engine, Physical Processes and Theoretical Premises
Technical University of Moldova, Republic of Moldova

A-199 Elena-Daniela OLARIU, Dorel CERNOMAZU, Leon MANDICI
Theoretical Basis of Sliding Contact Used at the Transformers with Continuous Voltage Adjustment
Stefan cel Mare University of Suceava, Romania

Section B

SPECIAL ELECTROMECHANICAL ENERGY CONVERTERS

Chairmen:

Leonard LIVADARU

Gheorghe Asachi Technical University of Iasi, Romania

Mihai RAȚĂ

Stefan cel Mare University of Suceava, Romania

Constantin UNGUREANU

Stefan cel Mare University of Suceava, Romania

Mariana MILICI

Stefan cel Mare University of Suceava, Romania

Friday, September 27, 2013 11:15 – 13:15

Nicolae Boțan Lecture Theatre

B-172 Corneliu BOȚAN, Florin OSTAFI

Fixed End Point Optimal Control of a Voltage Controlled Electrical Drive System with Variable Torque

Gheorghe Asachi Technical University of Iasi, Romania

B-174 Corneliu BOȚAN, Dumitru CUCIUREANU,

Florin Tiberiu PAL, Florin OSTAFI

Electromechanical Energy Conversion and Storage Systems

¹Gheorghe Asachi Technical University of Iasi, Romania

²Eneol-SP SRL Iasi, Romania

B-183 Constantin UNGUREANU, Dumitru CERNUȘCĂ, Cristina

PRODAN, Leon MANDICI

System for Converting Heat Energy into Mechanical Energy

Stefan cel Mare University of Suceava, Romania

B-184 Ilie NIȚAN, Dorel CERNOMAZU, Leon MANDICI

Automated Drip System Made with Electrochemical Pumps

Stefan cel Mare University of Suceava, Romania

B-196 Ovidiu-Magdin ȚANȚA^{1,2}

Current State of Research and Ferrofluid Applications

¹Stefan cel Mare University of Suceava, Romania

²E.ON Technical Services S.R.L., Romania

B-197 Ilie ROMANIUC, Mihai RAȚĂ, Dorel CERNOMAZU

Theoretical and Experimental Contributions at the Study of Single-Phase Vibromotors with Rolled Strips

Stefan cel Mare University of Suceava, Romania

B-198 Ilie ROMANIUC, Mihai RAȚĂ, Dorel CERNOMAZU

Theoretical and Experimental Contributions at the Study of Three-Phased Vibromotors with Rolled Strips

Stefan cel Mare University of Suceava, Romania

Section C

ELECTRIC DRIVES AND AUTOMATIONS

Chairmen:

Gheorghe BĂLUȚĂ

Gheorghe Asachi Technical University of Iasi, Romania

Iulian BIROU

Technical University, Cluj-Napoca, Romania

Leon MANDICI

Stefan cel Mare University of Suceava, Romania

Ciprian AFANASOV

Stefan cel Mare University of Suceava, Romania

Thursday, September 26, 2013 15:30 – 17:30

Nicolae Boțan Lecture Theatre

C-143 Alexandru LAVRIC, Valentin POPA

The Design and Implementation of a Street Lighting Control System Using a 802.11 Communication Protocol: A Case Study

Stefan cel Mare University of Suceava, Romania

C-145 Aurel FRATU¹, M. DAMBRINE^{2,3}

Analyze of a Collision Avoidance Strategy for Cooperative Robots

¹University „Transilvania” from Brașov, Romania

²Univ Lille Nord de France, France

³UVHC, LAMIH, France

C-146 Marius Constantin GEORGESCU

Control Drives for Flywheel Energy Storage System Used in Wind Applications

Transilvania University of Brașov, Romania

C-155 Simion BARANOV¹, Bartolomeu IZVOREANU²,

Leonid GORCEAC³, Petru GASHIN³, Irina COJUHARI²

Mathematical Model of the Alloying Process at the Epitaxial Semiconductor Structure Growth

¹Scientific and Engineering Centre “Inforinstrument”, Chisinau, Republic of Moldova

²Technical University of Moldova, Chisinau, Republic of Moldova

³State University of Moldova, Chisinau, Republic of Moldova

C-179 Gheorghe BĂLUȚĂ, Cristina-Nicoleta DIACONESCU,

Gheorghe URSANU

Resolver-to-Digital Converter

Gheorghe Asachi Technical University of Iasi, Romania

C-180 Gheorghe BĂLUȚĂ¹, Gheorghe URSANU¹, Radu Iustin BOJOI²,
Cristina-Nicoleta DIACONESCU¹

BLDC Motor Sensored Control by Digital Position Observer

¹Gheorghe Asachi Technical University of Iasi, Romania

²Politecnico di Torino, Italy

C-186 Mihai RAȚĂ¹, Adrian JURAVLE¹, Gabriela RAȚĂ¹, Leon
MANDICI¹, Vasilis CHATZIATHANASIOU², Ciprian AFANASOV¹

Variable-Frequency Drive with MC3PHAC

¹Stefan cel Mare University of Suceava, Romania

²Aristotel University of Thessaloniki, Greece

C-192 Ciprian AFANASOV, Mihai RAȚĂ, Leon MANDICI

*Speed Control of DC Motor Using Four-Quadrant Chopper and Bipolar
Control Strategy*

Stefan cel Mare University of Suceava, Romania

C-202 Gheorghe BALUȚĂ¹, Radu PENTIUC², Cezar Dumitru POPA²,
Leon MANDICI²

Virtual Laboratory for DC Servomotor Using the Internet

¹Gheorghe Asachi Technical University of Iasi, Romania

²Stefan cel Mare University of Suceava, Romania

C-204 Bartolomeu IZVOREANU, Irina COJUHARI

*The Tuning of the PID and PIDD² Algorithms to the Model Object with
Inertia Second Order and Time Delay*

Technical University of Moldova, Chișinău, Republic of Moldova

Section D

POWER SYSTEM INSTRUMENTATION AND CONTROL

Chairmen:

Virgil MAIER

Technical University of Cluj-Napoca, Romania

Aneta HAZI

Vasile Alecsandri University of Bacău, Romania

Dan MILICI

Stefan cel Mare University of Suceava, Romania

Crenguța BOBRIC

Stefan cel Mare University of Suceava, Romania

Friday, September 27, 2013 11:15 – 13:15

Dimitrie Leonida Lecture Theatre

D-148 Tao HUANG¹, Simona Louise VORONCA², Anca Alexandra PURCAREA³, Abouzar ESTEBSARI¹

Challenges and Necessities of Vulnerability Assessment for Power Systems Infrastructures

¹Polytechnic University of Turin, Italy

²CN Transelectrica SA, Romania

³Politehnica University of Bucharest, Romania

D-151 Codrin MALEȘ, Valentin POPA

PLC Field Tests Results Using PLC G3 Protocol

Stefan cel Mare University of Suceava, Romania

D-152 Tao HUANG¹, Simona Louise VORONCA², Anca Alexandra PURCAREA³, Ying Jun WU¹

A Framework for Ranking Threats Against Power Systems Security

¹Polytechnic University of Turin, Italy

²CN Transelectrica S.A., Romania

³Politehnica University of Bucharest, Romania

D-156 Nenad ZORIC, Anatolie IAVORSCHI, Mariana SIRETEANU, Georgiana VIZITEU, Romeo CIOBANU

Design and Simulations of IDC Sensor Using Comsol Multiphysics and Dielectric Spectroscopy of LTCC Materials

Gheorghe Asachi Technical University of Iasi, Romania

D-157 Mihai IORDACHE¹, Lucia DUMITRIU¹, Lucian MANDACHE²,
Dragoş NICULAE¹, Jean-Marie PAILLOT³, David CORDEAU³
*An Analytic Method for Two-Port Passive Network Computing for
Analysis of Coupled Oscillators*

¹Politehnica University of Bucharest, Romania

²University of Craiova, Romania

³University of Poitiers, Angoulême, France

D-163 Virgil MAIER, Victoria-Florica POLEC, Sorin-Gheorghe
PAVEL, Horia-Gheorghe BELEIU

Analytical Identification of the Fuses Protection Characteristics

Technical University of Cluj-Napoca, Romania

D-167 Gheorghe HAZI, Aneta HAZI, Sorin-Gabriel VERNICA

*Using the Numerical Protections for Medium Voltage Power Lines
Grounded with Petersen Coil*

Vasile Alecsandri University of Bacău, Romania

D-185 Roberto FARANDA¹, Nicolae GOLOVANOV², George-Cristian
LAZĂROIU², Sonia LEVA¹

Thermal Modelling and Cooling System Design of PV Power Converters

¹Politecnico di Milano, Italy

² Politehnica University of Bucharest, Romania

D-187 Gabriela-Nicoleta SAVA, Sorina COSTINAŞ, Nicolae
GOLOVANOV

Assessment of Collector Networks for Offshore Wind Power Plants

Politehnica University of Bucharest, Romania

D-188 Dan L. MILICI¹, Bert KINT², Cristine VanLARE²,
Mariana MILICI¹

To Use a Microcontroller System in a Home Energy Management

¹Stefan cel Mare University of Suceava, Romania

²KAHO Sint-Lieven Gent, Belgium

Section E

COMPATIBILITY, QUALITY, EFFICIENCY AND POWER SYSTEM SECURITY

Chairmen:

Sorin PAVEL

Technical University of Cluj-Napoca, Romania

Stelian BULIGA

E.ON MOLDOVA Distribution S.A., Romania

Ion POTĂRNICHE

ICPE ACTEL, Bucharest, Romania

Daniela IRIMIA

Stefan cel Mare University of Suceava, Romania

Thursday, September 26, 2013 15:30 – 17:30

Remus Răduleț Lecture Theatre

E-150 Ion POTĂRNICHE, Cornelia POPESCU

Energy Efficiency – the Main Feature of the Solutions Developed by ICPE ACTEL

ICPE ACTEL, Bucharest, Romania

E-154 Adina RACASAN, Călin MUNTEANU, Claudia PACURAR, Claudia HEBEDEAN

Methods Used in Order to Increase High Frequency Losses in Planar Structures

Technical University of Cluj-Napoca, Romania

E-159 Nicolae MURARIU, Stelian BULIGA, Mirela-Iulia SAVIN, Monica RADU

Power Quality Monitoring System

E.ON Moldova Distribution SA of Iasi (EMOD), Romania

E-160 Sorin BALĂUȚĂ, Stelian BULIGA, Laurențiu UNGUREANU, Marius IUZIC

The Securing of Low Voltage Electrical Networks from Areas with Major Risk by Illegal Consumption

E.ON MOLDOVA Distribution S.A., Romania

E-169 Walter SATTINGER

Power System Operation in a Changing Environment

Swissgrid, Switzerland

E-171 Pavel ATĂNĂSOAE

The Influence of the Reserve Automatic Release Device on the Energy Systems Reliability

Stefan cel Mare University of Suceava, Romania

E-189 Fiodor ERHAN, Victor POPESCU

Characteristics of Faults in Systems for Distribution of Electricity

State Agrarian University of Moldova, Republic of Moldova

E-193 Andrei STATIVĂ, Mihai GAVRILAȘ

Small Signal Stability Enhancement Using Supplementary Signals from PMU

Gheorghe Asachi Technical University of Iasi, Romania

E-194 Andrei STATIVĂ, Mihai GAVRILAȘ

Using Digsilent in Small Signal Stability Studies

Gheorghe Asachi Technical University of Iasi, Romania

E-195 Mariana DUMITRESCU

Operational Power Flow Optimization for an Industrial Electrical Network

Dunărea de Jos University of Galați, Romania

E-200 Bogdan VICOL, Mihai GAVRILAȘ, Ovidiu IVANOV

Modern Technologies for Power Systems Monitoring

Gheorghe Asachi Technical University of Iasi, Romania

E-201 Alexandru KRIUKOV, Mihai GAVRILAȘ

Managing a Multi-Purpose Parking Lot for Electric Vehicles

Gheorghe Asachi Technical University of Iasi, Romania

E-205 Marian COSTEA¹, Nicolae GOLOVANOV¹, Ioana Marina GRINȚESCU², Elena-Luminița STĂNCIULESCU³, Ștefan GHEORGHE⁴

Low Frequency Fields Electric Distribution Networks and Occupational Exposure

¹ University Politehnica of Bucharest, Romania

² Carol Davila University of Medicine and Pharmacy of Bucharest

³ Emergency Hospital Bucharest, Romania

⁴ National Power Grid Company Transelectrica SA, Romania

Section F

LOCAL AND WIDE AREA SYSTEM MONITORING: CONCEPTS, TOOLS AND AWARENESS

Chairmen:

Mihai GAVRILAȘ

Gheorghe Asachi Technical University of Iasi, Romania

Pavel ATĂNĂSOAE

Stefan cel Mare University of Suceava, Romania

Cezar POPA

Stefan cel Mare University of Suceava, Romania

Gabriela RAȚĂ

Stefan cel Mare University of Suceava, Romania

Friday, September 27, 2013 11:15 – 13:15

Remus Răduleț Lecture Theatre

F-153 Ștefan SILION, Ana-Maria LOVIN

Road Conditions Monitoring. Actual and Undergoing Research Methods

Gheorghe Asachi Technical University of Iași, România

F-158 Ana-Maria LOVIN, Liviu BRENIUC, Mihai CREȚU

Evaluation of Thermal Comfort Conditions. CAN System for Estimating the Level of Thermal Comfort in Automobiles

Gheorghe Asachi Technical University of Iași, România

F-161 Sorin BĂLĂUȚĂ, Stelian BULIGA, Laurențiu UNGUREANU, Marius IUZIC

Considerations Regarding the Small Power Station's Connection at the Low Voltage Networks

E.ON MOLDOVA Distribution S.A., Romania

F-162 Ștefan SILION, Ana-Maria LOVIN

Traffic Light Times Calculation and Simulate Semaphores Functioning Using LabView Environment

Gheorghe Asachi Technical University of Iași, România

F-164 Radu BUCEA-MANEA ȚONIȘ, Rocsana BUCEA-MANEA ȚONIȘ

Computer Assisted Simulation of Market Shares for Competing Products Using Markov Chains

Spiru Haret University of Bucharest, Romania

F-170 Lambert PIERRAT

Vectorial Probabilistic Model for the Unbalance Factor of a Three-Phase Electrical Network

LJK- LAB, ProbStat Dept. & LJ-Consulting, Grenoble, France

F-173 Marian DRAGOMIR, Alexandru MIRON

Assessment of Two Fault Location Algorithms in a Matlab Approach

CNTEE Transelectrica SA, Romania

F-203 Florin DRĂCEANU, Cezar Dumitru POPA, Dumitru Radu
PENTIUC, Leon MANDICI

Modernization Electric Substations 110/20 kV

Stefan cel Mare University of Suceava, Romania

DETAILED SCHEDULE FOR ROUND TABLE

THURSDAY, SEPTEMBER 26, 2013

11.30 – 13.30

CHAIRMENS

Doina ILIȘIU, Călin MUNTEANU, Radu PENTIUC

Power quality and new sources integration

1. Doina ILIȘIU – Transelectrica - DEN
*CEE and CEF integration issues in the system.
Commissioning on the test and certification period.*
2. Carmen STĂNESCU – Transelectrica ST Sibiu
Power quality in SEN - power quality system monitoring.
3. Dorel STĂNESCU – Transilvania Sud
*Punctual aspects of the operation of photovoltaic plants
connected to the medium voltage network.*
4. Mihai COTEANU și Alexandru STANCIULESCU
Compliance test results on the CEF - ISPE
5. Ștefan GHEORGHE, Energobit
The quality of electricity in distribution networks
6. Nicolae MURARIU, E.ON Moldova
Power quality monitoring system
7. Constantin PLĂCINTĂ
S.C. Bioenergy Suceava S.R.L.

DETAILED SCHEDULE FOR ROUND TABLE

FRIDAY, SEPTEMBER 27, 2013

09.15 – 11.15

CHAIRMENS

**Doina ILIȘIU, Marcel ISTRATE, Ovidiu MUSTAȚĂ,
Radu PENTIUC**

Power system security and wide area system monitoring

1. Walter SATTINGER – Swissgrid, Laufenburg

Power system operation in a changing environment

2. Mihai CREMENESCU – Transelectrica, DEN

Restoration of Dobrogea region from CNE Cernavodă

3. Doina ILIȘIU – Transelectrica - DEN

CEE and CEF integration issues in the system.

Commissioning on the test and certification period.

4. Simona VORONCA - Transelectrica

5. Ovidiu MUSTAȚĂ

The operating mode of storage facilities of "green energy" and economic and technical analysis of investments in this area.

6. Constantin PLĂCINTĂ

S.C. Bioenergy Suceava S.R.L.

7. George CIUBOTARU – Electroalfa Botoșani

Photovoltaic power plant from Botoșani area

NOTES

✓ **CONTACT**

Ștefan cel Mare University of Suceava
Faculty of Electrical Engineering and Computer Science
13 University Street, 720229 - Suceava, ROMANIA
Phone: (40)-230-52 48 01
www.eed.usv.ro/els
e-mail: els@eed.usv.ro

19.00 24.00	Welcome party			
17.30 18.30	Building D, Second Floor INVENTICA 2013 Exhibition - Vernissage Equipments in electrical engineering			
15.30 17.30	Building D, Second Floor			
	Section A Transformers and Electrical Machines Amf. DL	Section C Electric Drives and Automations Amf. NB	Section E Compatibility, Quality, Efficiency and Power system Security Amf. RR	
13.30 14.30	Lunch USV Restaurant			
11.30 13.30	Building D, Second Floor, Dimitrie Leonida Lecture Theatre Round Table CIGRE <i>Power quality and new sources integration</i> Doina ILIȘIU, Călin MUNTEANU, Radu PENTIUC			
11.15 11.30	Coffee break			
11.00 11.15	Book launch – <i>Modelarea și simularea mașinilor electrice</i> A. CÂMPEANU, I. CAUCIN, I. VLAD, S. ENACHE			
09.00 11.00	Building E, First Floor, Conference Hall – Plenary session			
	Aurel CÂMPEANU <i>University of Craiova</i>	Nicolae GOLOVANOV <i>Politehnica University of Bucharest</i>	Constantin PLĂCINTĂ <i>S.C. Bioenergy Suceava S.R.L.</i>	Walter SATTINGER <i>Swissgrid, Switzerland</i>
08.00 09.00	Opening session Building E, First Floor, Conference Hall			
07.00 08.00	Participants registration Building E, First Floor			
Thursday, september 26				

16.00 24.00	Dinner. Cocktail Party	
14.00 15.45	Social program	
13.15 13.30	Coffee break	
11.15 13.15	Building D, Second Floor	
	Section B Special Electromechanical Energy Converters Amf. NB	Section D Power System Instrumentation and Control Amf. DL
	Section F Local and Wide Area System Monitoring: concepts, tools and awareness Amf. RR	
09.15 11.15	Building D, Second Floor, Dimitrie Leonida Lecture Theatre	
	Round Table CIGRE <i>Power system security and wide area system monitoring</i> Doina ILIȘIU, Marcel ISTRATE, Ovidiu MUSTAȚĂ, Radu PENTIUC	
09.00 09.15	Coffee break	
08.00 09.00	Building E, Second Floor, Dimitrie Leonida Lecture Theatre	
	Plenary session	
	Alecsandru SIMION Leonard LIVADARU Adrian MUNTEANU <i>Gheorghe Asachi Technical University of Iasi</i>	Virgil MAIER <i>Technical University of Cluj-Napoca</i>
Friday, september 27		

