

Regional South East European Conference 2014 RSEEC 2014

Innovation for efficient and effective management, solutions for power systems of the future!



Timișoara Hotel | Timișoara | România | October 8-10, 2014

CONFERENCE AGENDA

Wednesday, October 8, 2014, Timisoara Hotel, Viena Hall		Exhibition 8:40 - 18:20 Viena Floor 1 Expo Area
08:40 – 10:40	Registration	
08:40 – 10:40	Opening Plenary	
10:40 - 11:00	Coffee Break	
11:00 – 13:00	Session 1 <i>Convenors: Dr. Ing. Ciprian Diaconu – Romania, Dr. Ing. Bruce Pahlavanpour – UK, Conf. Dr. Ing. Sorin Musuroi - Romania</i>	
	A105 - <i>Considerations on protection systems of networks with RES</i> F. BALASIU - CNTEE Transelectrica SA, Romania Gh. MORARU - SMART SA, Romania	
	A104 - <i>Situational awareness for dynamic stability as add-on control centre functionality</i> C. O. HEYDE, U. KERIN, R. KREBS - Siemens AG, Power Technology International, Germany I. HAUER, Z. STYCZYNSKI - University of Magdeburg, Germany	
	A113 - <i>PROZA NET SCADA systems at HEP DSO</i> S. SEKULIĆ, A. VARŽIĆ, I. KRAPIĆ - Končar – Power Plant and Traction Engineering Inc., Croatia I. PERIŠA - HEP-Distribution System Operator (HEP DSO) Ltd, Croatia	
	A114 - <i>Basic concept of self-healing SMART GRID management</i> B. BRESTOVEC, B. NJVARO - Končar – Power Plant and Traction Engineering Inc., Croatia Z. JADRIJEV - HEP ODS – Elektrodalmacija, Croatia	
	A115 - <i>Distributed SCADA system in SS 220/110/35/20(10) kV PLAT</i> D. OŽANIĆ, I. VUKIĆ, D. HANJILEC, R. MUČIĆ, I. MASLOVIĆ - KONČAR - Electrical Industry Inc., Croatia	
	A108 - <i>Improving grid reliability by application of protection security assessment</i> T. BOPP, R. KREBS - Siemens AG, Power Technology International, Germany F. LAZAR - ELIA Engineering, Belgium B. NTSIN - GRIDCo, Ghana M. DAUER, J. JAEGER - Friedrich-Alexander-University Erlangen-Nürnberg, Germany	
13:00 - 14:00	Lunch Break	
14:00 – 16:00	Session 2 <i>Convenors: Dr. Ing. Constantin Moldoveanu – Romania, Conf. Dr. Doru Vatau - Romania, Dr. Ing. Simona Voronca – Romania</i>	
	A107 - <i>Volt/Var control analysis on distribution system to reduce energy losses</i> Ö. YÜCEL - GENETEK Power System Consultancy, Turkey	
	A102 - <i>Mineral insulating oil stray gassing and its effect on DGA “Laboratory study”</i> J. WESSMA, B. PAHLAVANPOUR, J. NUNES - NYNAS AB, Sweden	
	B115 - <i>Service experience with composite insulators</i> I. D. HATEGAN, R. G. SAVA, N. BALTA, V. METIU, M. MARCOLT, L. CENAN, V. CAMBUREANU - CNTEE Transelectrica SA, Romania	
	B104 - <i>Theoretical requirements regarding lifetime management of high voltage equipment</i> I. HATEGAN, Ci. DIACONU - CNTEE Transelectrica SA, Romania C. MOLDOVEANU, V. BREZOIANU, S. ZAHARESCU, B. TOADER, A. VASILE, I. IONITA – NOVA INDUSTRIAL SA, Romania	
	A110 - <i>Dynamic security assessment based on PMU measurements in large interconnected power systems</i> U. KERIN, R. KREBS, C. O. HEYDE, C. N. MAU, E. LERCH - Siemens AG, Power Technology International, Germany	
	A117 - <i>About mobile information devices used for transmission, receiving, processing and storage of data and information used in electricity network companies</i> G. INDRE, D. BALACI, C. BOGUS, A. TUDORA - CNTEE Transelectrica SA, Romania	

16:00 - 16:20	Coffee Break	
16:20 – 18:20	Session 3 <i>Convenors: Dr. Ing. Ioan Hategan – Romania, Prof. Dr. Ing. Dumitru Toader – Romania, Dr. Ing. Doina Ilisiu – Romania</i>	
	A103 - <i>The Romanian TSO's power quality monitoring system</i> C. STANESCU, D. ILISIU – CNTEE Transelectrica SA, Romania H. ALBERT, L. ELEFTERESCU, B. MARCU – ISPE, Romania N. GOLOVANOV, P. POSTOLACHE - University "Politehnica" of Bucharest, Romania	
	A116 - <i>Lešće HPP, Croatia</i> A. SMOKROVIĆ, D. RUNJIĆ - Končar – Power Plant and Electric Traction Engineering Inc., Croatia	
	A121 - <i>Power system stability improvement using the STATCOM device</i> C. CONSTANTIN, I.C. CONSTANTIN – CNTEE Transelectrica SA, Romania M. EREMIA – University "Politehnica" of Bucharest, Romania	
	B101 - <i>Technology management in transmission power grid</i> D. MORAR, I. RODEAN, V. CRIGANUTA, V. BALAN, M. BACIU - CNTEE Transelectrica SA, Romania M. OLTEAN - SMART SA, Romania L. MODRAN - "Lucian Blaga" University of Sibiu, Romania B.D. GUZUN - University "Politehnica" of Bucharest, Romania	
	B110 - <i>Managing the life time of circuit breakers with the help of numeric protection terminals</i> V. VILCU - CNTEE Transelectrica SA, Romania	
	B113 - <i>Fast restore Guyed Tower</i> E. MATEESCU, A. COPOIU, D. MARGINEAN, M. GHEORGHE, M. NISTOR - Fichtner Engineering SA, Romania C. DIACONU, I. HATEGAN - CNTEE Transelectrica SA, Romania	
16:00 – 18:00	ROUND TABLE - Live Maintenance in Romania Book presentation : "Sibiu and Romania electrification" Location: University Politehnica of Timisoara, Romania (Facultatea de Electrotehnica si Electroenergetica - C219 hall) Convenors: Conf. Dr. Doru Vatau, Ing. Marius Oltean , Ing. Marcel Stancu	
19:00 - 22:00	Welcome Cocktail - Timisoara Hotel, Belvedere Hall	

Thursday, October 9, 2014, Timisoara Hotel, Viena Hall			
08:40 – 10:40	Session 4 <i>Convenors: Dr. Ing. Florin Balasiu – Romania, Prof. Dr. Chris Oliver Heyde – Germany, Conf. Dr. Ing. Marian Greconici – Romania</i>		
	B116 - <i>Protection of oil-filled transformers against explosion: experiments and simulations</i> S. MULLER, G. PERIGAUD, M. PETROVAN-BOIARCIUC - SERGI France, France O. K. AHMED., B. LANDIS, S. YOON - Transformer Protector Corp, USA	Exhibition 8:40 - 18:20 <i>Viena Floor 1</i> <i>Expo Area</i>	
	B111 - <i>Choosing and implementing risk assessment methodologies in electrical networks planning and operation</i> S. L. VORONCA - CNTEE Transelectrica SA, Romania		
	B114 - <i>Research on the predictive maintenance of electrical equipment</i> C. DAMACHIANU, E. D. OLARIU, D. IRIMIA, D. CERNOMAZU - "Stefan cel Mare" University of Suceava, Romania A. MIRON - CNTEE Transelectrica SA, Bacau Subsidiary, Romania		
	B109 - <i>Dismantling of the 220 kV OHL ISALNITA - KOZLODUY. Environmental impact. Case study on OHL crossing the Danube River</i> P.C. STROICA - CNTEE Transelectrica SA, Romania G.A. FLOREA - Power & Lightning Tehnorob, Romania		
	B103 - <i>The conductor galloping in Romania. History, Phenomenon description, Theoretical assumptions, Weather conditions enhancing the galloping risk occurrence, Main devices to reduce the galloping parameters. The Romanian manufactured pendulum TDD-2.3- RO</i> G.A. FLOREA - Power & Lightning Tehnorob, Romania E. MATEESCU - Fichtner Engineering S.A., Romania M. FLOREA, C. OPREA, M. VAJU - CNTEE Transelectrica SA, Romania A. VINOGRADOV - ESSP J-S Cy , Moscow, Russia J.L. LILIEEN - University of Liege, Belgium		
	B108 - <i>Completed Stages for Object-Orientation of Electrical Transmission Grid Maintenance Actions – Methods and Technologies</i> C. BARBULESCU, I. HATEGAN, R. MARCIU, R. SAVA - CNTEE Transelectrica SA, Romania		
10:40 - 11:00	Coffee Break		

11:00 – 13:00	<p>Session 5 Convenors: Ing. Hariss Nicorescu – Romania, Dr. Ing. Maximilien Dauer - Germany, Conf. Dr. Ing. Adrian Pana– Romania</p> <p>B106 - <i>The technical condition of the electricity transmission grid – important factor in maintaining the safety of the national power system</i> M. FLOREA, C. OPREA, C. FLOREA - CNTEE Transelectrica SA, Romania</p> <p>B102 - <i>Micro-alloyed copper overhead line conductors</i> F. NUÑO - European Copper Institute, Belgium</p> <p>A112 - <i>Dissolved gas analysis based on computer program</i> H. NICORESCU, A. ROMANESCU - CNTEE Transelectrica SA, Romania V. ZAHARESCU - CNTEE Transelectrica SA, Sibiu Subsidiary, Romania</p> <p>A120 - <i>Technical standard regarding protection and automation system, supervisory control and data acquisition applied in Romanian power grid company - Transelectrica</i> H. NICORESCU - CNTEE Transelectrica SA, Romania</p> <p>C101 - <i>Grid connection requirements of Turkey wind power</i> E. INAN, R. CARAUS - SIEMENS A.Ş. - Turkey A. SÖZÜDOĞRU – SIEMENS AG, Germany</p> <p>C104 - <i>Statistical analysis on the annual average time use of for the installed capacity for the renewable energy power plants</i> Gh. INDRE, D. Gh. VRABIE - CNTEE Transelectrica SA, Romania</p>	
13:00 - 14:00	<p>Lunch Break</p>	
14:00 – 16:00	<p>Session 6 Convenors: Dr. Ing. Georgeta Gheorghita – Romania, Dr. Ing. Petru Ruset – Romania, Prof. Dr. Ing. Radu Pentiu – Romania</p> <p>C106 - <i>Wind and photovoltaic power plants from ATR to the operation</i> D. ILISIU, I. SERBANESCU - CNTEE Transelectrica SA, UNO-DEN, Romania</p> <p>C107 - <i>Wind and photovoltaic power plants operation</i> D. ILISIU - CNTEE Transelectrica SA, UNO-DEN, Romania</p> <p>C105 - <i>Electric vehicles, a Romanian experience</i> C. G. DIACONU, M. C. MARCOLT - CNTEE Transelectrica SA, Romania</p> <p>C108 - <i>Promotion of the organic rankine cycle based cogeneration: A case study</i> S. D. VORONCA - University “Politehnica” of Bucharest, Romania M. M. VORONCA - Romanian Energy Efficiency Fund, Romania</p> <p>A106 - <i>Enhancement of electrical transmission networks monitoring using wide area monitoring systems</i> I. M. DRAGOMIR - CNTEE Transelectrica SA, Romania S. St. ILIESCU - University “Politehnica” of Bucharest, Romania</p> <p>E103 - <i>Management of risks regarding the means and equipment of protection used in electrical installations</i> G. BUICA, C. BEIU, A. ANTONOV - National Research and Development Institute for Labor Protection “Al. Darabont” Bucharest, Romania M. OLTEAN, G. COTRIGASANU - CNTEE Transelectrica SA, Romania</p>	
16:00 - 16:20	<p>Coffee Break</p>	
16:20 – 18:20	<p>Session 7 Convenors: Dr. Ing. Traian Fagarasan – Romania, Dr. Ing. Marian Florea – Romania, Prof. Dr. Ing. Constantin Bulac – Romania</p> <p>E102 - <i>HVDC line maintenance, live-line and close to voltage work</i> B.J. BISEWSKI, J. HU - RBJ Engineering Corp, Canada G. GHEORGHITA, E. DRAGAN - Fichtner Engineering, Romania F. EXL, S. GRUNWALD – Fichtner, Germany</p> <p>E104 - <i>Maintenance Works Using Helicopters. Romanian Approach</i> M. OLTEAN, T. FAGARASAN, I. SEVASTRE - SMART SA, Romania</p> <p>E105 - <i>An overview of training and authorization of personnel in live working field</i> M. OLTEAN - SMART SA, Romania G. COTRIGASANU, I.RODEAN - CNTEE Transelectrica SA, Romania</p> <p>E106 - <i>Electric and magnetic field exposure during live working</i> C. BEIU, G. BUICA - National Research and Development Institute for Labor Protection “Al. Darabont” Bucharest, Romania N. GOLOVANOV, P. POSTOLACHE, I. BARAN, C. TOADER - University “Politehnica” of Bucharest, Romania</p> <p>D109 - <i>Location of reactive power compensation through different methodologies</i> R.C.G.A.S. RAFAEL – ABB Consulting Brazil, Brazil M.R.M. MAIRA; A.C.Z.S. ANTONIO UNIFEI – Federal University of Itajubá, Brazil</p> <p>D116 - <i>Numeric computation of the inductance of multifilament cables</i> D. TOADER, C. BLAJ, I. CATA - University Politehnica of Timisoara, Romania</p>	
19:00 - 22:00	<p>Conference Networking Party – Cramele Recas <i>(traditional Romanian winery & restaurant)</i></p>	

Friday, October 10, 2014, Timisoara Hotel, Viena Hall		
08:40 – 10:40	<p>Session 8 <i>Convenors: Prof. Dr. Ing. Zambroni de Souza – Brazil, Conf. Dr. Ing. Alexandru Hedec - Romania, Dr. Ing. Ilie Ardelean - Romania</i></p> <p>D113 - <i>Design of low-cost ferrite permanent magnet assisted synchronous reluctance motors</i> C. PATRASCU , E. RADU, S. MUSUROI - University Politehnica of Timisoara, Romania</p> <p>D103 - <i>Sustainability as an issue on power system students' education</i> M. F. ZAMBRONI DE SOUZA - Secretaria Municipal de Educação de Itajubá, Brazil A.C.Z.S. ANTONIO UNIFEI – Federal University of Itajubá, Brazil</p> <p>D111 - <i>Wind farms integration in power distribution network. Case study for Dobrogea Region</i> S. KILYENI, C. BARBULESCU, A. SIMO, O. FATI - University Politehnica of Timisoara, Romania</p> <p>D 107 - <i>Optimal voltage control on power distribution systems using artificial immune systems</i> D. Q. OLIVEIRA, A. C. ZAMBRONI DE SOUZA, L.F.N. DELBONI, M. V. SANTOS, D. MARUJO, J. M. CARVALHO FILHO, B.D. BONATTO, C.A.V. GUERRERO - Federal University of Itajuba – UNIFEI, Brazil</p> <p>D104 - <i>A new global concept for integrated system of services dedicated to the assembly of stations, substations and electric power grid, seen as a whole</i> B. GUZUN, L. DARABANT, C. PETICA I. BARBOIANU, R. GUZUN, E. I. ANGHEL - - University “Politehnica” of Bucharest, Romania /Technical University from Cluj-Napoca – UTC, Romania</p> <p>D110 - <i>The analysis of the electromagnetic disturbances and their mutual influences in different areas of the power grids</i> D. RUSINARU, L.G. MANESCU - University of Craiova, Romania M. MERFU – Electropower Systems, Romania P. STROICA - CNTEE Transelectrica SA, Romania</p> <p>B112 - <i>Impedance-based fault location algorithm for double-end fed transmission lines</i> M. DRAGOMIR, A. MIRON - CNTEE Transelectrica SA, Romania M. ISTRATE, A. DRAGOMIR - Technical University “Gheorghe Asachi” of Iasi, Romania</p>	<p>Exhibition 8:40 - 13:00 Viena Floor 1, Expo Area</p>
10:40 - 11:00	Coffee Break	
11:00 – 13:00	<p>Session 9 <i>Convenors: Dr. Ing. Gheorghe Indre – Romania, Conf. Dr. Ing. Ion Tristiu – Romania, Dr. Ing. Gheorghe Moraru – Romania</i></p> <p>D102 - <i>Reactive power optimization based on particle swarm optimization PSO</i> M. EREMIA, A. L. TAWFEEQ - University “Politehnica” of Bucharest, Romania</p> <p>A119 - <i>Considerations regarding the achievement busbar differential protection with analog and digital relays and the effect of the conventional current transformers over their operation</i> V. CRACIUNESCU – E.ON Moldova, Romania E. BOBRIC, R. PENTIUC – “Stefan cel Mare” University of Suceava, Romania A. MIRON - CNTEE Transelectrica SA, Romania</p> <p>D115 - <i>Multi-period power loss optimization with limited number of switching actions</i> C.F. IONESCU, C. BULAC, I. TRISTIU, A. MANDIS - University “Politehnica” of Bucharest, Romania</p> <p>D112 - <i>A data mining techniques based approach for identify of electricity generation potential by renewable sources in Romanian power system</i> GH. GRIGORAS, F. SCARLATACHE - Technical University “Gheorghe Asachi” of Iasi, Romania C. BARBULESCU - CNTEE Transelectrica SA, Romania</p> <p>A111 - <i>Modern local voltage control of a transformer unit</i> I. C. CONSTANTIN - CNTEE Transelectrica SA, Romania S. St. ILIESCU - University “Politehnica” of Bucharest, Romania</p> <p>D114 - <i>Power quality in street lighting electrical networks</i> R. PENTIUC, P. ATANASOAE, V. VALENTIN, C. POPA, D. IRIMIA, E. BOBRIC - Stefan cel Mare” University of Suceava, Romania A. MIRON - CNTEE Transelectrica SA, Romania</p> <p>A118 - <i>Considerations on the protection of high-voltage lines performed with numerical relays</i> M. POCRIS - E.ON Moldova, Romania E. BOBRIC, R. PENTIUC, D. IRIMIA - University of Suceava, Romania A. MIRON - CNTEE Transelectrica SA, Romania</p> <p>A101 - <i>The research of the zero sequence mutual impedance in a 110 kV double overhead line that is fed from one source</i> I. C. BORASCU - CNTEE Transelectrica SA, Romania</p>	
13:00 - 13:10	Closing Plenary	
14:00 – 19:00	Technical Tour (depending on the number of participants)	



CIGRÉ Regional South-East European Conference
RSEEC 2014 (2nd edition)

October 8th - 10th 2014

Timisoara Hotel 4*, Timisoara City, Romania



The **CIGRÉ**'s Romanian National Committee, as organizer and **CNTEE Transelectrica** (the Romanian TSO) and **A-LST-R** (the Romanian technical authority in the field of Live Maintenance), as co-organizers, would like to thank once again to **RSEEC 2014** sponsors and partners:

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