

**2015 CIGRE Romania Conference on
Condition Monitoring, Diagnosis and Maintenance (3rd edition)**
Modern Management Technology



Athénée Palace Hilton Hotel | Bucharest | Romania | October 5-8 , 2015

International Conference on Condition Monitoring, Diagnosis and Maintenance 2015

CMDM 2015 (3rd edition)

Athénée Palace Hilton Hotel, Bucharest, Romania
October 5th -8th, 2015

Monday, October 5, 2015, Le Diplomate Ballroom		
12:00 - 16:00	Registration	Exhibition 16:00 - 18:00 Ground Floor
16:00 - 16:30	Opening Exhibition	
16:30 - 18:00	Opening Plenary	
	Tutorial 1: CIGRE B3.31 Air Insulated Substation Design For Severe Climate Conditions , presented by Mr. CIPRIAN DIACONU, Romania	
	Tutorial 2: CIGRE WG A2.44: Guide on Transformer Intelligent Condition Monitoring (TICM) Systems , presented by Mr. CARLOS JULIO DUPONT, Brazil	
18:30 - 21:00	Welcome Cocktail - Athénée Palace Hilton Hotel	
Tuesday, October 6, 2015, Le Diplomate Ballroom		
09:00 - 10:00	Session 1	Exhibition 09:00 - 18:00
	<i>E-Highway2050: a research project analyzing very long term investment needs for the pan-European transmission system</i> , T. ANDERSKI ¹ , N. GRISEY ² , E. MOMOT ² , D. ORLIC ³ , K. BRUNINX ⁴ , D. COUCKUYT ⁴ , ⁽¹⁾ Germany, ⁽²⁾ France, ⁽³⁾ Serbia, ⁽⁴⁾ Belgium	
	<i>On-line monitoring of conventional and innovative components in HV and EHV Terna's Substations</i> , A. DI GIULIO, V. IULIANI, F. PALONE, M. REBOLINI, Italy	
	<i>Towards the real Smart Grid deployment from DSO's perspective</i> , J.L. PICARD, I. AGUADO, A. QUIJANO, V. FUSTER, Spain	
	<i>Increased transformer operation reliability through continuous monitoring</i> , L.V. BADICU*, W. KOLTUNOWICZ, U. BRONIECKI, Germany	
	Discussions	
10:00 - 11:00	Tutorial 3 : CIGRE WG A2.48: Technology and utilization of oil insulated high voltage shunt reactors , presented by Mr. Simon Ryder, United Kingdom	
11:00 - 11:30	Coffee Break	
11:30 - 12:30	Session 2	
	<i>Online condition monitoring becomes standard configuration of transformers - Practical application for optimized operation and maintenance and failure avoidance</i> , S. COENEN ¹ , B. DOLATA ¹ , T. CHIULAN ² , ⁽¹⁾ Germany & ⁽²⁾ Romania	
	<i>Aspects of how asset management can be influenced by modern condition monitoring</i> , C. MOLDOVEANU, I. D. HATEGAN, V. BREZOIANU, M. FLOREA, I. IONITA, M. BUDAN, M. AVRAMESCU, T. CHIULAN, S. SZLIVKA, G. PARVU, Romania	
	<i>How Can We Improve Transformer Asset Management?</i> , S. RYDER, United Kingdom	
	<i>The vibro-acoustic method as fast diagnostic tool on load tap changers through the simultaneous analysis of vibration, dynamic resistance and high speed camera recordings</i> F. BRIKCI, P.A GIGUÈRE, M. SOARES, C. TARDIF, Canada	
Discussions		

12:30 - 13:30	Session 3	Exhibition 09:00 - 18:00
	<i>Assessing the dynamic rating of overhead transmission lines</i> , C. MOLDOVEANU, P. CURIAC, M. AVRAMESCU, Romania	
	<i>Critical Factors, Governing Power Transformer Condition</i> , M. TOSTRUD, B. D. SPARLING, USA	
	<i>Health Index: the last frontier of TSO's asset management</i> , F. SCATIGGIO, A. FRAIOLI, M. REBOLINI, S. SACCO, Italy	
	<i>The condition assessment of power transformers based on current health index</i> , C. MOLDOVEANU, A. RUSU, M. AVRAMESCU, I. D. HATEGAN, I. IONITA, M. FLOREA, C. RADU, M. BUDAN, T. CHIULAN, Romania	
	Discussions	
13:30 - 14:30	Lunch and Break	
14:30 - 15:30	Session4	
	<i>Substation condition monitoring from data to smart decision support</i> , N. FANTANA, Germany	
	<i>Transformers fleet ranking based on risk analysis</i> , A. BYRNE, United Kingdom	
	<i>Residual Life Estimation for Generator Transformers</i> , S. RYDER, United Kingdom	
	<i>Considerations Relating to Replacement / Reserve of the High Power Transformer Units with Expired Useful Life in Operation in the Romanian Power System</i> , P.C. STROICA, C.G. FLOREA, Romania	
	Discussions	
15:30 - 16:30	Session5	
	<i>Degree of oil refining and it effect on insulating paper degradation</i> , I. CRUSELL, L. BERGELD, B. PAHLAVANPOUR, Sweden	
	<i>Silver Corrosion Failure Phenomenon Diagnostics and Mitigation in Power Transformers - Malaysian Experience</i> , S. GOBI KANNAN, N. THIEN LEE, W. FOOK MING, B. YOGENDRA, Z. ZULFADHLY, Malaysia	
	<i>New developments in monitoring of smart insulation for intelligent transformers on the Smart Grid</i> , D. WOODCOCK, M. MARINOIU, USA	
	<i>Alternative Analyses for Monitoring the Decay of Liquid Insulation in Service</i> , T. FAGARASAN ¹ , I. FOFANA ² , S. GAL ² , M. OLTEAN ¹ , ⁽¹⁾ Romania & ⁽²⁾ Canada	
	Discussions	
16:30 - 17:00	Coffee Break	
17:00 - 18:00	Session 6	
	<i>On-line Improvement of Internal Insulation of Aging Power Transformers</i> , T. FAGARASAN ¹ , I. FOFANA ² , S. GAL ² , M. OLTEAN ¹ , ⁽¹⁾ Romania & ⁽²⁾ Canada	
	<i>Innovative Remote Monitoring and fire safeguard System for Secondary Distribution Substations using web based SCADA</i> , M. S. S. AI MEHAIRI, M. A. M. SHAHIN, United Arab Emirates	
	<i>Recent condition monitoring and diagnosis system of large-scale stationary battery for power system in Japan</i> , T. KOBAYASHI, Japan	
	<i>Grid Interactive And Standalone Photovoltaic, Battery Storage And Diesel Generator Based Microgrid</i> , N. PRASAD, S. TALATI, India	
	Discussions	
Wednesday, October 7, 2015, Le Diplomate Ballroom		
09:00 - 10:00	Session 7	Exhibition 09:00 - 18:00
	<i>Non-Destructive Structural Cable Inspection of Overhead Transmission Lines</i> V. ALMEIDA, J. GOMES-MOTA, S. MATIAS, Portugal	
	<i>Field trials with Unmanned Aerial Vehicles on Transmission Grids</i> J. GOMES-MOTA, R. OLIVEIRA, S. ANTUNES, Portugal	
	<i>CXI – PT5500 – a unique and innovative tool for overhead lines wooden pole condition assessment</i> , M.P. GENOVESE, A. BIASUTTO, U. BOVO, Italy	
	<i>Non-Destructive Evaluation Technologies for Assessing Large River Crossing Conductors Prior to Restranging</i> , N. POULIOT, E. LAVOIE, G. ROUSSEAU, A. LEBLOND, A. BRISSETTE, S. MONTAMBAULT, Canada	
	Discussions	
10:00 - 11:00	Tutorial 4: Severe Climatic Events and Climate Change on Overhead Lines , presented by Mr. I. Hategan, Romania	
11:00 - 11:30	Coffee Break	

11:30 - 12:30	Session 8	Exhibition 09:00 - 18:00
	<i>Overhead Lines Distributed Sensors – A dynamic solution for an increased reliability of Power Grid</i> , C. CHIMIREL, I. HATEGAN, L. IACOBICI, D.VLADU, D. MARGINEAN, F. ILINCA, Romania	
	<i>Optimization of transformer assets through continuous assessment</i> , T. LINN, E. MORALES, D. BIDWELL, United Arab Emirates	
	<i>Advancements in Wire Condition Monitoring Using Line Impedance Resonance Analysis (LIRA)</i> , P.F. FANTONI, Norway	
	<i>Implementation of mobile maintenance in Slovenian TSO (Eles)</i> , M. KOVAČ, M. GABROVŠEK', M. GABROVŠEK'', D. KOZJEK, R. TOMAŽIČ, Slovenia	
	<i>How Robotics Will Change Transmission Line Inspection, Maintenance and Smart Asset Management</i> , S. MONTAMBAULT, N. POULIOT, Canada	
Discussions		
12:30 - 13:30	Session 9	
	<i>Smart Grid Development of an intelligent equipment for real time, on-line monitoring of energy consumption and power quality</i> , C. MOLDOVEANU, A. VASILE, V. BREZOIANU, M. AVRAMESCU, S. ZAHARESCU, Romania	
	<i>Life-expectancy prediction of medium voltage vacuum circuit breakers through advanced condition monitoring and diagnostic techniques</i> , J. T. O'REILLY; JM. VAN COLLER; N. SMIT, South-Africa	
	<i>A Novel Monitoring System to Optimize Maintenance Strategies for Generator Circuit-Breakers and Increase the Availability of Power Plants</i> , M. PALAZZO, A. ANTONIADIS, P. FRAIOLI, A. MARMOLEJO, Switzerland	
	<i>Intelligent switchgear maintenance system</i> , A. MIK, B. AVRAMOVIĆ, I. KUZLE, Croatia	
	Discussions	
13:30 - 14:30	Lunch and Break	
14:30 - 15:30	Session 10	
	<i>Condition Monitoring and Diagnostics of Turbine Generators Operating at Flexible Grids with High Amount of Renewable Energy</i> , J. R. WEIDNER, M. BIESEMANN, F. EWERT, Germany	
	<i>Rotor Shape Recognition System</i> , M. CLOUTIER, Canada	
	<i>Clustering of Time Series Load Profiles for Grid Reliability</i> , I. BENÍTEZ, A. QUIJANO, J.L. DÍEZ, I. DELGADO, Spain	
	<i>Distribution network reliability and asset management</i> , I. PAVIĆ , N. HOLJEVAC, K. JURKOVIĆ, I. KUZLE, Croatia	
	Discussions	
15:30 - 16:30	Session 11	
	<i>Considerations on societal and technical impacts of blackouts</i> , S. L. VORONCA, S. D. VORONCA, Romania	
	<i>Dispatchables Units Aggregation in SEN – guidelines for control and operation</i> , D. ILISIU, Romania	
	<i>Monitoring and Diagnosis of the Current-source Inverter Based on the Measurements Performed on DC Side</i> , M. POPESCU, C. CARAMIDA, Romania	
	<i>System operation in presence of large Wind and Photovoltaic Power Plants</i> , D. ILISIU, Romania	
	Discussions	
16:30 - 17:00	Coffee Break	
17:00 - 18:00	Session 12	
	<i>Multimedia Technologies for Live Working Training</i> , M.N. OLTEAN , T. FAGARASAN, I. SEVASTRE, M. VINTAN, N. SOCOLESCU, I.RODEAN, Romania	
	<i>On-line analysis of hazardous regimes to humans in electrical installations</i> , P. M. MIRCEA, S. M. BALTEANU, Romania	
	<i>Electric and magnetic field induced in human body using finite difference method</i> , C. BEIU, N. GOLOVANOV, R. PORUMB, G. SERITAN, G. BUICA, C. TOADER, Romania	
	<i>Maintenance in TPG's Analysis for Developing New Technologies</i> , D. MORAR, I. RODEAN, V. BALAN, M. BACIU, Romania	
	Discussions	
19:00 - 22:00	Conference Networking Party - Casa Doina	

Thursday, October 8, 2015, Le Diplomate Ballroom		Exhibition
09:00 - 10:00	Session 13	09:00 – 13:30
	<i>Trends and opportunities in imposing of the safety integrated level in industrial automation systems</i> , F. VELEA, M. NICOLA, Romania	
	<i>New Smart Meter design to support Smart Grid functionality</i> , M. SANDULEAC, C. STANESCU, C. LISMAN, D. FLAMANZEANU, Romania	
	<i>The Accuracy of the Circuit Parameter Measurement Using the Power Analyzer and External Transducers</i> , M. POPESCU, I. SBORA, Romania	
	<i>Electromagnetic Field Measurement And Simulation On High Voltage Overhead Lines</i> , M. N. OLTEAN, G. FLOREA, A. LIPAN, C. MUNTEANU, A. POP, M. BOGDAN, C. LUNGU, Romania	
	Discussions	
10:00 - 11:00	Tutorial 5: CIGRE WG B5.37 Protection, Monitoring and Control of Shunt Reactors , Presented by Mr. Gheorghe Moraru, Romania	
11:00 - 11:30	Coffee Break	
11:30 - 12:30	Session 14	
	<i>Improving Romanian power system stability using facts devices in presence of renewable sources</i> , G. IORDACHE (PRESADA), S. St. ILIESCU, Romania	
	<i>Analysis of SVC implemented in the Romanian Power System</i> , D. GUSA, S. ILIESCU, Romania,	
	<i>Decision making under uncertainty in development planning of power grids</i> , G. GRIGORAS, C. BARBULESCU, Romania	
	<i>The new approach of power line and bus coupler protection in CNTEE Transelectrica SA</i> , H. NICORESCU, F. BALASIU, D. BUCUR, A. ROMANESCU, Romania	
12:30 - 13:30	Session 15	
	<i>High-voltage electrical substation design using 3D software</i> , A.D. DRAGAN, A. DINA, M. POPOVICI, I. E. CHITESCU, Romania	
	<i>New solutions for protection of shunt reactors from electricity transmission grid</i> , V. VILCU, Romania	
	<i>Making an end zone protection with the distance protection</i> , V. VILCU, Romania	
	<i>Thermal stress monitoring device for electrical equipment</i> , M. DRAGOMIR, A. DRAGOMIR, M. ADAM, G. MORARU, A. MIRON, Romania	
	Discussions	
13:30 - 13:35	Closing Plenary	

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