

CMDM 2017 - CIGRE Romania Conference on Condition Monitoring, Diagnosis and Maintenance 2017 (4th edition)

Modern Management Technology



Radisson Blu Hotel | Bucharest | Romania | September 25 - 27, 2017

International Conference on Condition Monitoring, Diagnosis and Maintenance 2017

CMDM 2017 (4rd edition)

Radisson Hotel, Bucharest, Romania

September 25th -27th, 2017

Monday, September 25, 2017, Atlas Conference Room		
10:00 - 11:00	Registration Welcome Coffee	
11:00 - 13:00	<i>Opening Plenary</i> <i>Exhibition Opening</i>	Exhibition 11:00 - 18:00 <i>Prefunction Area, 1st Floor</i>
	Tutorial 1: CIGRE Reliability surveys and Lifetime management of Equipment in the context of power system evolution , presented by Mr. Hiroki Ito, Japan	
	Tutorial 2: 21st Century Condition Monitoring - Challenges and Opportunities , presented by Mr. Terry Krieg, Australia	
13:00 - 14:00	Lunch and Break	
14:00 - 15:00	Session 1 Chair Hiroki Ito	
	<i>Field Experience with Non-intrusive In-service Diagnostics of Circuit Breaker Based on Transient Electromagnetic Emissions</i> R. Doche, R. Pater, S. Poirier, M. Germain, S. Gingras, CANADA	
	<i>Maintenance method for spring operating mechanism of gas circuit-breaker based on its deterioration investigation</i> M. Katsumata, K. Kawakita, T. Mori, H. Otani, JAPAN	
	<i>Evaluation of Electrical degradation in High Voltage Circuit Breaker Monitoring</i> N. Gariboldi, SWITZERLAND, P.L. Corliss, USA	
	<i>The role of condition assessment in the management of asset maintenance and replacement</i> A. Wilson, H. Cunningham, UK	
	<i>The Role of Condition Monitoring in an Asset Management Organization</i> T. McGrail, R. Heywood, USA	
	<i>Discussions</i>	
15:00 - 16:00	Tutorial 3 : Digital Substation for the future , presented by Mr. Claudio Marchetti	
16:00 - 16:30	Coffee Break	
16:30 - 18:00	Session 2 Chair Hugh Cunningham	
	<i>Hydro power plant structural monitoring integrated to the Smart Grid by Internet of Things technology</i> L. C. Magrini, P. S. D. Kayano, F. Crispino, E. F. Carneiro, T. P. A. Cappi, A. L. C. Santos, BRASIL	
	<i>Developing a Framework for Qualitative Assessment of Threats to Transmission System Operators Security</i> S. Voronca, ROMANIA	
	<i>Existing solutions for digital substations</i> I. V. Bărburaș, I. Boiciuc, S. Bugnar, B. Borbely, ROMANIA	
	<i>Considerations on Wide Area Back-up Protection of Power System using Phasor Measurement Units</i> A. Miron, M. Dragomir, R. Pentiu, C. Popa, C. Bobric, ROMANIA	

	<p><i>Residential Load Management through Smart Plugs in Smart Grids</i> O. Ayan, M. Saçli, B. Emre, TURKEY</p> <p><i>Investigation of Power Quality Analysis of Single-Phase Inverter Topologies for Solar Energy Systems</i> M. Saçli, O. Ayan, M. Silsüpür, B. Emre, TURKEY</p> <p><i>Philosophy protection OHL from ETN 400 KV of INDIA and ROMANIA</i> V. Vilcu, ROMANIA</p> <p>Discussions</p>	<p>Exhibition 11:00 - 18:00 Prefunction Area, 1st Floor</p>
19:00 - 22:00	Cocktail Reception - Radisson Hotel, Dacia Felix Restaurant	
Tuesday, September 26, 2017, Atlas Conference Room		
9:00 - 10:00	<p>Session 3 Chair Terry Krieg</p> <p><i>Practical Experience with GSU Transformer Condition Monitoring: Managing Expectations, Extracting Value</i> T. McGrail, R. Heywood, USA</p> <p><i>Actual issues of HV bushing condition monitoring</i> A. Kraiachich, A. Mordkovich, G. Tsfasman, RUSSIA</p> <p><i>Development of Online Transformer Monitoring Programs</i> M. Tostrud, USA</p> <p><i>Power transformer on-line monitoring & diagnostic system as a Smart grid solution</i> C. Moldoveanu, I. Hațegan, V. Brezoianu, A. Vasile, S. Zaharescu, ROMANIA</p> <p><i>Transformer Online Monitoring roadmap (OLCM)</i> A. Al Qabtan, A. AL Rahbi, I. AL Blushi, A. Sharma, OMAN</p> <p>Discussions</p>	<p>Exhibition 09:00 - 18:00 Prefunction Area, 1st Floor</p>
10:00 - 11:00	Tutorial 4 : Savings through Optimized Maintenance in Air Insulated Substations , presented by Mr. Cunningham Hugh, Ireland & Mr. Alan Wilson, UK	
11:00 - 11:30	Coffee Break	
11:30 - 13:00	<p>Session 4 Chair Ciprian Diaconu</p> <p><i>Online Detection of Windings Distortion in Power Transformers by Direct Vibration Measurement Using a Thin Fiber Optics Sensor</i> P. Kung, R. Idsinga, J. Bin Fu, H.-Chaska V.-Durand, C. Shui Yang, CANADA</p> <p><i>Analysis of the monitoring solutions of the transformer units within CNTEE Transelectrica SA, in order to implement the concept of digital substation</i> E. Stoicescu, C. Lisman, T. Chiulan, ROMANIA</p> <p><i>Strategies for increasing the mechanical safety of Romanian overhead lines network. Overview of developments in design standards and their implications on future performance</i> E. Mateescu, G. Gheorghita, S. Wechsler, D. Mărginean, I. Hațegan, , L. N. Iacobici, M. Văju, ROMANIA</p> <p><i>How to decrease or even avoid the conductor galloping in the case of single phase conductors and shield wires. A Romanian approach</i> G. A. Florea, A. Lipan, E. Mateescu, A. C. Rusu, I. Rodean, C. Baci, M. Florea, L. Lipan, ROMANIA</p> <p><i>Evaluating the safety condition of high voltage composite insulators using the on-line leakage current monitoring and diagnostic systems, a Romanian experience</i> C. Moldoveanu, I. Hațegan, L. Iacobici, V. Brezoianu, A. Vasile, M. Plopeanu, V. Florea, E. Munteanu, C. Baci, ROMANIA</p> <p><i>Monitoring system of transmission pylons' integrity</i> F. Capece, S. Atek, L. Lampani, P. Gaudenzi, ITALY</p> <p><i>Big Data approach to monitoring of energy systems and partial discharge (PD) detection</i> A. Sinai, B. Boettcher, M. Menge, T. Gräf, T. Huecker, GERMANY</p> <p>Discussions</p>	
13:00 - 14:00	Lunch and Break	
14:00 - 15:00	<p>Session 5 Chair Constantin Moldoveanu</p> <p><i>Prevent degradation of Insulation in Transformers & Enhance Asset Life</i> Rajaram Shinde, INDIA</p> <p><i>Diagnostic methods for detection of electrical equipment's faults, defects</i> A. Yu. Khrennikov, T. V. Ryabin, N. M. Aleksandrov, RUSSIA</p> <p><i>Effect of Oxygen on Cellulose Aging Marker Behavior in Oil-immersed Power Transformers</i> F. Kato, R. Kuriyama, M. Miashita, T. Minagawa, R. Nishiura, H. Ito, JAPAN</p>	

	<i>Investigation of Indicator Gas for Internal Fault on Ester Oil-immersed Transformer</i> R. Kuriyama, F. Kato, M. Miyashita, T. Minagawa, R. Nishiura, H. Ito, JAPAN	Exhibition 09:00 - 18:00 Prefunction Area, 1st Floor
	<i>Key aspects of insulating fluids - HV performance, ageing behavior & fault markers</i> C. P. Wolmarans, B. Pahlavanpour, SWEDEN	
	Discussions	
15:00 - 16:00	Tutorial 5: IEC 61850 Communications for Digital Substations, presented by Mr. Gerhard Wieserner , Germany	
16:00 - 16:30	Coffee Break	
16:30 - 18:00	Session 6 Chair Florin Balaşiu	
	<i>Design and Maintenance Protection and Automation Systems in Romanian Power Grid</i> G. Moraru, ROMANIA	
	<i>Substation automation system data base</i> A. Romanescu, S. Gheorghe, C. P. Lişman, V. Zaharescu, S. Kovács, L. N. Iacobici, M. Marcolţ, ROMANIA	
	<i>Directional comparison zero sequence overcurrent protection scheme</i> I. C. Constantin, I. M. Ionescu, ROMANIA	
	<i>Communications schemes used for transmission power lines</i> A. Iamandi, I.C. Constantin, ROMANIA	
	<i>Connection solutions for RES in the Romanian power system - protection systems point of view</i> A. G. Ianţoc, V. Constantinescu, ROMANIA	
	<i>Operating and Maintenance Evolution</i> I. Rodean, D. Morar, ROMANIA	
	<i>Application of data visualization tool to assist the management of power equipment</i> Y. Yao, L. Zhanying, W. Song, L. Ruihai, CHINA	
	Discussions	
19:00 - 22:00	Conference Networking Party - Hanu' Berarilor (Casa Oprea Soare)	
Wednesday, September 27, 2017, Atlas Conference Room		
9:00 - 10:00	Session 7 Chair Ioan Haţegan	Exhibition 09:00 - 15:15 Prefunction Area, 1st Floor
	<i>Risk Factors and Prevention In Live Line Maintenance</i> M. N. Oltean, T. Făgărăşan, G. Cotrigăşan, ROMANIA	
	<i>Using RFI survey methods to detect faulty high voltage equipment</i> A. Wilson, M. Hughes-Narborough, S. Krakenes, UK	
	<i>Online Cable Insulation Testing using Partial Discharge Measurement under High Noise Environment</i> A. A. Khan, E. Morales Cruz, USA	
	<i>Demonstration of an Online Continuous Monitoring System for Partial Discharge on Critical HV Cables</i> G. K. Earp, S. Baird, UK	
	<i>Bridging the gap between analog, smart grid and digital substation</i> L. N. Iacobici, A. Romanescu, V. Zaharescu, S. Gheorghe, M. Marcolţ, ROMANIA	
	Discussions	
10:00 - 11:00	Tutorial 6: Technical risks and solutions from periodic, large surpluses or deficits of available renewable generation, presented by Mr. Ciprian Diaconu, Romania	
11:00 - 11:30	Coffee Break	
11:30 - 13:00	Session 8 Chair George Florea	
	<i>Using Drones, a new challenge in Live Line Maintenance</i> T. Făgărăşan, M. N. Oltean, ROMANIA	
	<i>Electric Energy Storage Systems from theory to applied projects</i> M. Marcolţ, L. N. Iacobici, I. D. Haţegan, ROMANIA	
	<i>Developing a power generation and storage system based on Smart Grids (Micro-Grid) solutions and technologies. Case study: Supply of internal services from Brazi Vest 400/220/110 kV substation from renewable energy</i> D. Balaci, I. Păvăloaia, C. Boguş, ROMANIA	
	<i>Unbundled Smart Meter as a tool for empowering the end customer</i> M. Sănduleac, M. Albu, D. Stănescu, C. Diaconu, C. Stănescu, ROMANIA	
	<i>Research on the classification of defect data of power equipment by using Naive-Bayes method</i>	

	Y. Yao, L. Zhanying, W. Song, L. Ruihai, CHINA	
	<i>Planning of voltage regulation in the Romanian transmission system taking into account power electronics based technologies</i> D. Bolborici, A. Țolea, A. Talpoș, ROMANIA	Exhibition 09:00 - 15:15 <i>Prefunction Area, 1st Floor</i>
	<i>Discussions</i>	
13:00 - 14:00	Lunch and Break	
14:00 - 15:00	Session 9 Chair Gheorghe Moraru	
	<i>An IIoT Based Approach for Grid Assets Analysis</i> A. Dumitrof, A. Neagu, C. Rotărescu, ROMANIA	
	<i>Under-Frequency Load Shedding - new approaches in the Romanian Electric Power System</i> I. M. Ionescu, C. Constantin, ROMANIA	
	<i>Wireless Devices for Electrical Equipment's Thermal Stress Monitoring</i> M. Dragomir, A. Dragomir, A. Miron, ROMANIA	
	<i>Electric field modelling of high voltage composite insulators with the purpose of identifying fault causes</i> A. Talpos, A. Constantin, L. N. Iacobici, ROMANIA	
	<i>Optimal electrical vehicle charging strategy for operating conditions improvement in distribution electrical grid,</i> A. T. Radu, M. Eremia, L. Toma , ROMANIA	
	<i>Discussions</i>	
15:00 - 15:15	Closing Plenary	

* . *