2015 16th International Scientific Conference on Electric Power Engineering (EPE)

Wednesday, May 20, 2015 – first day of the conference

Short presentations - Session II (ROOM 400)

Guarantee: **Tomáš Novák** (VŠB - TU Ostrava, CZ)

Time	No	Authors	Title of paper
16:00 - 18:30	1	Tadeusz Sikora, Jakub Vramba, Jindřich Stuchlý, Jan Dudek	Wiring and Protection of an Off-Grid System
	40	Oliver Marcincin, Zdenek Medvec	Active charging stations for electric cars
	44	Petr Vaculík, Jaroslav Frantík	Mix of Energy Sources in Technology Centre of Ostrava
	52	Radim Jilek, Jiri Gurecky, Stanislav Rusnok, Pavel Sobota	Electricity Storage Systems Using Compressed Air
	62	Martin Liska, Marian Ivanic, Vladimir Volcko, Peter Janiga	Research on Smart Home Energy Management System
	63	Petr Bos, Richard Baleja, Karel Sokanský, Tomáš Novák, Ivo Ullman	Outdoor Lighting Versus Surveillance Camera Systems in Electrical Substations ČEPS
	64	Ladislav Laštovka, Pavla Hejtmánková	Behaviour of the Turbogenerator and its Control and Intercept Valves during the Switching into the Island Operation
	72	Martin Gruss, Zdenek Hradilek	Research of Hydrogen Storage System Using LabVIEW Software
	73	Jiri Drholec, Radomir Gono	Operation of Industrial Local Distribution System
	77	Vladimír Šály, Michal Váry, Juraj Packa, Milan Perný	Electrical Characterization of PV Modules after Three Years of Operation
	81	Jan Vaculik, Zdenek Hradilek, Petr Moldrik, Daniel Minarik	Utilisation of Thermograhy in the Field of PEM Fuel Cells
	85	Tomas Mlcak, Roman Hrbac, Vaclav Kolar, Ivo Ullman	Development and Implementation of an Intelligent System for Permanent Evaluation of Light Fixtures in a Lighting System of Transmission System Substations
	86	Jan Fulneček, Veleslav Mach, Jakub Vramba	Space Weather Effects on Power Grids
	90	Jan Kamenicky, Jaroslav Zajicek	Failure Rate Evaluation of the Pumps Used in Power Industry
	92	Petr Kacor, Daniel Minarik, Petr Moldrik	CFD Analysis of Temperature Distribution of PEM Type Fuel Cell
	97	Andrzej Rusek, Ihor Shchur, Marek Lis, Andrzej Gastołek, Jarosław Sosnowski, Karol Klatow	Development of a method to determine the dependencies of load moments and elastic moments on element parameters during the rolling process for dynamical states of a drive system for the rolling machine- roller table

Time	No	Authors	Title of paper
16:00 - 18:30	113	Peter Janiga, Martin Liska, Vladimir Volcko, Branislav Pilat	Testing System for Smart Meters
	115	Tomas Pavelka, Michal Ptacek	Degradation of LED parameters during operation: Brief review of currently used models and measuring methods
	116	Ivan Šperlín, Jiří Gurecký	Network Support Using Reactive Power of Dispersion Sources in HV Network
	117	Jindrich Stuchly, Stanislav Misak, Lukas Prokop, Petr Krejci	A Power Quality Evaluating in Autonomous System Using Virtual Instrument Tool
	118	Martin Čerňan, Josef Tlustý	Study of the Susceptance Control of Industrial Static Var Compensator
	120	Jaroslav Stepanek, Jan Skoda	Dependence of Luminous Flux on Light Source Position
	122	Pavel Valíček, Tomáš Novák, Václav Kolář, Roman Hrbáč, Karel Sokanský	Suggestion of Long-term Measuring of Daylight Contributions in Interiors
	130	Roman Vykuka, Lucie Noháčová	Sensitivity Factors for Contingency Analysis
	138	Roman Dubnička, Anton Rusnák, Peter Janiga	Change of the Spectral Power Distribution of Luminaires Under Various Electrical Conditions
	144	Martin Koutný, Petr Kačor	Completion and Operational Testing of the Adams' Permanent Magnet Electric D.C. Motor-Generator
	155	Richard Baleja, Jan Sumpich, Karel Sokansky, Petr Bos, Barbara Helstynova, Tomas Novak	Comparison of LED properties, compact fluorescent bulbs and bulbs in residential areas
	156	Tomáš Výtisk, Radim Janalík	Experimental Determination of Technical Parameters in Order to Optimize the Operation of a Generator Achieving Electrical Output
	158	Jiri Jansa, Zdenek Hradilek, Petr Moldrik	Energy Supplied from Biogas Power Station to the Distribution Network
	164	Michal Kolcun, Martin Vojtek, Zsolt Čonka	The implementation of an ideal photovoltaic module in Matlab/Simulink using Simpowersystems Toolbox
	173	A.Senthil Kumar, Thomas Cermak, Stanislav Misak	Short -Term Wind Power Plant Predicting With Artificial Neural Network
	174	Jindrich Stuchly, Stanislav Misak, Lukas Prokop	Prospects for Electric Vehicles Technology with Renewable Energy Sources in a Smart-Grid Environment - An Introduction
	177	Marián Uher, Viktor Pokorný	A New Tool for Reconfiguration of a Distribution System
	181	Martin Kral, Radomir Gono, Petr Moldrik, Miroslava Gono	Quality Analysis of Electricity Supply from Small Hydro Power Plants with Banki and Pump Turbines