

2019 20th International Scientific Conference on Electric Power Engineering (EPE)

Friday, May 17, 2019 - third day of the conference

Session Electrotechnology I, II (ROOM 500)

Chairmans: **Vladimír Šály** (STU Bratislava, SK) and **Karel Noháč** (UWB Pilsen, CZ)

Guarantee: **Zdeněk Hradílek** (VŠB - TU Ostrava, CZ)



Time	No	Authors	Title of paper
8:00 - 9:30	29	Michal Kunicki	Correlation analysis of hotspot temperatures in power transformer – a case study
	36	Josef Senk, Ilona Laznickova, Ivana Jakubova, Oldrich Coufal	Application of the Designed Model of the Blasted Electric Arc under Various Argon Flow Rate
	42	Manoj Negi, Subba Reddy B	Corona Induced Degradation Studies on Fibre Reinforced Plastic (FRP) Rod used for High Voltage Composite Insulators
	53	Ondřej Michal, Vaclav Mentlík, Jaroslav Hornak, Pavel Trnka, Pavel Totzauer	Effect of Thermal Stress on the Hybrid Fibre/Particle Nanocomposite
	80	Juraj Adamec, Matus Danko, Michal Taraba, Peter Drgona	Thermal analysis of LiFePO ₄ battery cell during discharge with constant current
	87	Michał Koziół, Łukasz Nagi	Comparative analysis of measurement methods for partial discharges generated on the surface of solid dielectrics in insulating oil
	90	Milan Perný, Vladimír Šály, Vladimír Ďurman, Miroslav Mikolášek, František Janíček, Jozef Huran	Complex Electrical Characterization of a-Si/c-Si Solar Heterostructures with Conductive Antireflection Coatings
9:30 - 10:00	Coffee break		
10:00 - 11:30	93	Roman Cimbala, Lukáš Kruželák, Maksym Oliinyk	Change of Loss Factor On the Surface of Transformer Paper Due to Thermal Degradation
	95	Marek Siranec, Michal Regula, Alena Otcenasova, Juraj Altus	Measurement and Analysis of Stray Currents
	100	Martin Vins, Martin Sirovy	Sodium-Sulfur Batteries for Energy Storage Applications
	127	Jakub Jirinec, David Rot, Raytcho Velev	The Energy Efficient Solution for Intelligent Lighting
	137	Dušan Medved', Zsolt Čonka, Michal Kolcun, Michal Ivančák, Maksym Oliinyk	Reducing the Impact of Transient Phenomena of Arc Furnace on Power Network Operation
	139	Jan Slacik, Petr Mlynek, Radek Fajdiak, Petr Musil, Miroslav Voznak, Milos Orgon, Jan Hlavnicka	Capabilities and Visions of Broadband Power-Line in Smart Grids Applications