

Thursday 22 <sup>nd</sup> June			
8:30	9:00	Official Opening	
Speakers		Local Organizing Committee Chair: <i>Dániel Veres</i> Honorary Chairs: <i>János Ákos, Georges Zissis, Larry Good</i> Room: <i>Ravel</i>	
9:00	11:40	Plenary Session	
Invited Speakers	Room: <i>Ravel</i>	Future nuclear power concepts for the near and long term: technology, economics and deployment Next generation wind and solar power: from cost to value Innovation in aviation, research and development of electric and hybrid drive systems for aircrafts	
11:00	11:30	Coffee Break	
11:30	13:30	Oral Session	
Session ID	S1.1	S1.2	PANEL
Session Title	High voltage technologies	Electrical machines and drives	Panel discussion
Session Chair	David Fabiani, István Kiss	Peter Magyar, Tamás Ruzsánszki	Alki Van Heek, Szabolcs Czifrus, Zoltán Hózer, András Cséreháti
Room	Boleto	Cordoba	Ravel
Session Presenters	Mahmoud Mohamed: Partial Discharge Inception Voltage Measurements of Ester Dielectric Fluid for Insulation Diagnosis Alexander Ramonet: Investigations on the contact- and long-term behaviour of connections with cylindrical aluminum conductors for high-current devices Julian Heger: Thermal dimensioning of an explosion protected RCBO by the Thermal Network Method Timon Vota: Applicability of DLR sensors in High Voltage systems	Jaroslav Hornak: Complex Analysis of Novel Insulation Material for Rotating Machines Based on Polymer/MgO Gergely Márk Csányi: Investigation of dielectric properties of mixed PILC and XLPE cable insulation by the extended voltage response method Rheem Alexander: Reliability-based improvement of life-cycle maintenance and replacement strategies in transmission systems using air cology optimization Balázs Farkas: Multi-level inverter co-simulation based on the Zynq 7000 platform Efrén Fernandez: Comparative Analysis of Control Techniques in Drive Systems for Electric Motorcycle David Kiss: Model driven development in Power Electronics Andrej Bolf: Synchronization Device for the Model of Distribution Grid 22 kV Saeid Moosavi: A Short-Circuit Fault Detection Method using specific order of harmonics for Cascaded H-Bridge Multilevel Inverter	Panel discussion on the recent trends and challenges in the field of nuclear energy Alki Van Heek (International Atomic Energy Agency) Szabolcs Czifrus (BUTE, Institute of Nuclear Techniques) Zoltán Hózer (Hungarian Academy of Science Centre for Energy Research) Moderator: András Cséreháti (Hungarian Nuclear Society)
13:30	15:00	Lunch	
15:00	17:00	Dialogue Session	
Session ID	SD	SD	
Session Title	Dialogue session	Dialogue session	
Session Chair	Ábel Imre Cséh, Gergely Gyöngy, Balázs, Larry Good	Ábel Imre Cséh, Gergely Gyöngy, Balázs, Larry Good	
Room	Ravel + Boleto	Ravel + Boleto	
Session Presenters	Valeri Saikovski: The use of renewable energy in the construction and renovation of buildings: Factors affecting the practical need of renewables (PV) systems and the comparison of results of specific systems installed in Europe, Israel and Germany Andrej Bolf: The comparison of tuning algorithms used in Petersen coil model Christan Kühnel: Investigations on the long-term behavior and switching function of fuse-elements for NH-fuse-links (gG) at higher thermal stress Sahar Jamshidi: Internet of Things (IoT) applied for monitoring and controlling energy supply and consumption of a typical house using pv in Budapest Akaschay Phalavong: Development of Wide Area Protection for Electrical Distribution System in Vietnamese Capital	Ágnes Halász: Energy consumption of office ICT devices in nanogrid Gergely Márk Csányi: Investigation of Polarization Processes on Thin PVC Film Insulation by the Comparison of Frequency Domain Spectrometry and Extended Voltage Response Measurements Anna Mihók: The Role of Passive Elements in Renewal of Buildings Kriszta Pakai: Energy efficiency of city structures Saeid Moosavi: Fault detection in power supply of series hybrid electric vehicles (SHEV) using ANFIS	Feres Hamrouni: The Paris Agreement - aspects, consequences, solutions Hyung-Joo Lee: Renewable Integration Algorithms to Compensate PV Power Using Battery Energy Storage System Oronhng Vlayyothong: Reliability Centered Maintenance for Electrical Distribution System of Phnomhng Substation in Vietnamese Capital Muhammad Ali Khan: Modeling Energy Efficient Building Sustaining Upon On-Grid Solar PV System Dániel Veres: Spectral Analysis and UHF Detection of Partial Discharges Jaroslav Hornak: Defects of Electrical Insulation Systems with Focus on FEM Modeling Bálint Schön: Developing performance of waste water source heat pump systems by heat transport investigation Rudolf Kerekes: Demand-side management in Renewable Energy Park Dorján Itényi: Analysis of Failure Prediction Methods
Friday 23 <sup>rd</sup> June			
8:30	10:30	Oral Session	
Session ID	S2.1	S2.2	S2.3
Session Title	Nuclear techniques	Energy management	Power systems #1
Session Chair	Alki Van Heek	Albi Zsebik, Larry Good	József Ladányi
Room	Cordoba	Boleto	Ravel
Session Presenters	Hyunjae Joo: Discussion on Integration of Welding Coordinator in Welding Quality System of KEPIC (Korea Electric Power Industry Code) Ábel Imre Cséh: Weight function calculation of an SPN detector Zsófia Toth: Calculating the cross section of non 1v nucleic in cold neutron beam measurements Jongueun Lee: Preliminary Study for the Development of a Weld Integrity Verification Method Dorottya Jakab: The revision of the current radioactive fallout measurements at the KFKI campus in Budapest, Hungary	Sergio Ricardo de Mota Pires: Study on the Feasibility of Waste-Based Biogas for Electricity Generation in the Irish Grid for a High Renewables Penetration Scenario Valeri Saikovski: Predicting the results of the application of innovations in the construction of electrical systems in buildings with the help of a simple model, using both numerical and technical components Zsófia Kovács: The spreading potential of electric powered vehicles in Hungary Mihály Katona: Well-to-wheel energy consumption and CO2 emission of electric and internal combustion engine vehicles	A Proper Mix of Nuclear Power and Renewables to Fulfill Ecological Requirements of Acceptable CO2 Emission 2050 in Indonesia Khamphouvi Sombounkhan: Generation Planning for Improving Reliability of Power System in North and Central 1 Region of Laos PDR Michal Klasa: Feasibility analysis for construction of heat accumulator in CHP with combined cycle Matěj Židárec: Influence of Distributed Generation from Renewable Energy Sources on Distribution Network Heating Capacity István Volányi: Effect of inertia deficit on power system stability – synthetic inertia concepts analysis
10:30	11:00	Coffee Break	
11:00	13:00	Oral Session	
Session ID	S3.1	S3.2	AEE#
Session Title	Power Systems #2	Renewable technologies	AEE Seminar
Session Chair	József Ladányi	László Varga, Gerig Hottl	Larry Good, Albi Zsebik
Room	Cordoba	Boleto	Ravel
Session Presenters	László Pinter: Demand Response on the Electricity Market Kasim Zor: A State-of-the-Art Review of Artificial Intelligence Techniques for Short-Term Electric Load Forecasting István Tacs: Composition of inertial response emulation mechanisms for power system frequency stability analysis Goran Zdravac: IZNAJENJE IZ OBLASTI VARNOSTI IZOLACIJSKIH POKROVITELJEN NA JAVNO SVETLOSTNO SUSTAV ZA RURALNE POKRAJINE U CROATIAN PART OF PANNONIAN REGION David Mjambere: A Module and LabVIEW-based Mho Offset Directional Distance Relay Development for Education	Tamara Parova: Review of the Photovoltaic Systems Integration and Prospects in the Macedonian Electricity System Attila Sándor Kaszoki: Mathematical approximation of the production of a photovoltaic system Jo o Galv o: Energetic System with Biomass and How to Mitigate Associated Problems Adrienn Katona: Supercritical fluids in energy storage and consumption Bálint Sinkovits: Feasibility-based investigation of wind turbines power prediction	Juliana Mentoya Cardona: Role of LNG in an Optimized Hybrid Energy Network Isara Buaphan: Development of Expert System for Fault Diagnosis of an 8-MW Bulb Turbine Downstream Inlet/Outlet Hydro Power Plant LARRY GOOD, Director of International Development, AEE: Information about the Certified Energy Auditor training ALBI ZSEBIK, Assistant Director of International Member Development for Eastern and Central Europe: The role of the auditing in the ISO 50001 Energy Management Systems ZOLTÁN CZISZEG, President of the AEE Hungary Chapter: Energy saving opportunities in air handling
13:00	14:30	Lunch	
14:30	16:30	Oral Session	
Session ID	S4.1	S4.2	CAREER
Session Title	Energy security, markets and policies	Case studies	Young Professional Career Development Workshop
Session Chair	Károly Csizsér	David Fabiani	Alki Van Heek, Károly Csizsér, Peter Magyar
Room	Ravel	Cordoba	Boleto
Session Presenters	Inna Stamo: Energy storage as a key element in the puzzle called security of energy supply (in the case of Germany). Liliana Nowakowska: Dynamic discrete model for electricity price forecasting Tamás Pintér: Regulatory influence analysis on EOM (Energy Only Market) in consideration of electric power generation mix Oleg Gerasimchuk: Russia's gas pivot to Asia: a short-sighted policy or a long term strategy? Krisztina Puri: Economic analysis of the Hinkley Point C nuclear power plant based on the available data	Mohammad Tolou Askari: Modelling the Medium Term Deregulated Power Market Based on the Cournot Game Theory Mehrdad Tahmassebi: Electricity demand uncertainty modeling using enhanced path-based scenario generation method Bo Wang: Renewable Energy Investment Decision Indicators Based on "Element Performance-Economic Benefit" Causality Under Global Energy Interconnection Pavel Sovicka: Development of an advanced locomotive simulator Rakibul Islam Chowdhury: Feasibility Study of Hybrid Floating Power Plant Concept at Bay of Bengal Cherifa Boucetta: Smart driven by Estimation of energy Consumption for Electric Vehicle in urban road traffic Imre Pálcsányi: Load Flow simulations on mitigating ice accretion or high voltage power line conductors Adriana Romero Levente Rácz: A Review of Sulfur-hexafluoride Reduction by Dielectric Coatings and Alternative Gases	Young Professional Career Development Workshop Károly Veszprémi (BUTE, Vice Rector) Alki Van Heek (IAE, IR Leader) Péter Magyar (IEEE IAS, Chapters and Membership Development Chair)