



3<sup>rd</sup> INTERNATIONAL CONFERENCE  
OF YOUNG SCIENTISTS  
"ELECTRIC POWER ENGINEERING & CONTROL SYSTEMS 2011"  
(EPECS-2011)

NOVEMBER 24-26 2011, LVIV, UKRAINE



## CONFERENCE PROGRAMME

### NOVEMBER 24

#### 08:30 – REGISTRATION OF PARTICIPANTS STARTS

*In front of the Assembly hall of the 1<sup>st</sup> building of Lviv Polytechnic National University (Karpins'kogo street 2/4)*

#### 09:00 - 10:30 – LVIV STUDENT SHORT FILM RETROSPECTIVE

*Assembly hall of the 1<sup>st</sup> building of Lviv Polytechnic National University (Karpins'kogo street 2/4).*

#### 10:30 - 12:00 – CEREMONIAL OPENING OF THE FESTIVAL OF SCIENCE

*Assembly hall of the 1<sup>st</sup> building of Lviv Polytechnic National University (Karpins'kogo street 2/4).*

#### 12:00 - 13:00 – LVIV POLYTECHNIC TOUR

#### 13:00 - 14:00 – LUNCH

*Canteen in the 1<sup>st</sup> building of Lviv Polytechnic National University (Karpins'kogo street 2/4, basement).  
Alternatively – University canteen (Karpins'kogo street 6)*

#### 14:00 - 18:00 – CONFERENCE SESSIONS

##### SESSION 1. AUTOMATIC CONTROL SYSTEMS, COMPUTER INTEGRATED TECHNOLOGIES, ELECTROMECHANICS

*Room 121, main building of Lviv Polytechnic national university (Bandery street, 12)*

*Raied H., Raquib A.* Design of an Automatic Controller for Sustainable Grid Power Supply in Bangladesh

*Raquib A., Rozario B.* Designing the Feedback System for a DCMotor to control its angular movement and speed using Microcontroller

*Kulakovskiy L., Altuhov E.* Simulation of veneer moisture output of dryer system control

*Ryabtsev H., Fedoryshyn R., Matiko F.* Development of a simplified technique for calculation of coke gas compressibility coefficient

*Sheremet O., Perepelytsya V.* Study of Energy Efficiency of the Soft Start of the Asynchronous Motor with a Short-Circuited Rotor

*Klimchenkova N., Korniyenko S.* Analysis of Methods of Moving Loads with Tower Crane Electromechanical System

*Lushchik V., Ivanenko V.* Combined synchronous machine cascade

*Korendiy V.* Prospects of Use of Low-speed Wind-power Installations of Small and Supersmall Power

*Shcherbovskykh S.* Reliability Model for Electromechanical System with Triangle-Type Diagram

*Korendiy V.* The Analysis of Problems of Exploitation of Wind-power Installations

*Duboviy E.* Investigation of acoustoelectric effects by using a differential amplifier

*Terentiev O., Kleschov A.* Tractive calculation mathematical model of lifting transport equipment considering functional factor of runner bearing sliding friction

*Bilovus R., Bilyakovskiy I., Kasha L., Kopchak B.* Calculation Features of Brushless Direct Current Motor's Geometric Optimal Dimensions

*Muzychak A., Andrusiv R.* The use of principle of analogies for the vibration processes calculation

#### 16:00, 17:00, 18:00 – LVIV CITY WALKING TOUR STARTS

*In front of the 1st building of Lviv Polytechnic National University (Karpins'kogo street 2/4).*

## NOVEMBER 25

### 10:00 - 13:00 – CONFERENCE SESSIONS

#### SESSION 2. ELECTRICAL ENGINEERING AND TECHNOLOGIES, HEAT-POWER ENGINEERING

*Room 121, main building of Lviv Polytechnic national university (Bandery street, 12)*

- Cetin E., Colak M., Icli S., Iplikci S.* DC Power Distribution for Photovoltaic Applications  
*Melnyk I.* High Voltage Direct Current in the World and Ukraine  
*Shilandari A., Niazmandian S., Ebrahimi A., Malahzadeh A.* Quasi static approximation of wireless power transfer systems through coupled resonance and improving power transfer efficiency  
*Shilandari A., Niazmandian S., Ebrahimi A., Malahzadeh A.* Maximum efficiency conditions of wireless power transfer between two helical wire antennas  
*Tejinder S., Arvind D.* Energy Saving Using Energy Auditing Techniques – A Case Study for a Steel Power Plant  
*Saket M., Moghaddami M., Alishahi E.* Modeling one typical digital differential relay in the MATLAB  
*Saket M., Jandaghi B., Moghaddami M., Oraee H.* Thermal Lumped Parameter Modeling of a Toroidal Transformer  
*Masliak R.* The Analysis of Emergence and Ways of Protection from Ferroresonance Processes in Networks with Isolated Neutral from 6 to 35 kV  
*Karimi M.* Differential Evolutionary Algorithm for distribution Capacitor Allocation Considering Varying Load Conditions  
*Karimi M., Shayeghi H.* Solution of Optimal Capacitor Placement Problem Using Improved Differential Evolutionary Algorithm on Radial Networks  
*Khodabakhsh J.* A Novel on Electricity Market Modeling Based on Game Theory According to Physical Constraints  
*Ferensovyh R.* Investigation modes work of current transformers  
*Nowruzi A., Lohi M.* Influence of arrester model and transmission line tower footing resistance on lightning strike  
*Alishahi E., Saket M., Moghaddami M.* A comparison of genetic algorithm and immune algorithm in optimization of one typical axial flux permanent magnet motor  
*Petrova K.* Control of the industrial enterprises electric power consumption with the use of technological resource  
*Sheina A., Sytnik K.* Exacting the experimental determination method of turbogenerator electromagnetic parameters from three-phase short circuit tests  
*Rylskiy S.* Tracing the Electricity Flow for Power Supply Companies  
*Singh T., Dhingra A.* Various Concerns Regarding Monitoring & Measurement of Power Quality Problems  
*Gapon A., Savitskiy S., Rudakova N.* Mathematical model of the inertial object programmed control method  
*Chernousenko O., Nikulenkova T.* The damage and residual resource of the isolating valves of K-200-130 steam turbine at the Luhansk thermal power plant  
*Kolosova N., Serbin V.* Technological Factors of Formation, Composition and Quality of Biogas from Livestock Farm Waste Fermentation in the Methane Tank  
*Banerjee A., Nayak G.* Synchronized Acoustic Refrigerator And Heat Engine (SARAH)  
*Kovalenko T., Garasym A.* Application of thickened by additives industrial oil in power plants  
*Rymar T., Djumin D.* Optimal Temperature of the Superheated Steam in thermodynamic cycle CCP-182  
*Martynyak M.* The use of emitters, as a method for improving the efficiency of boilers  
*Baranovyh D.* Problematics of purification of a waste gas of the heat-and-power engineering enterprise from dioxide of sulfurs – new ways of their solution  
*Muzychak A.* Calculation of the central heating gravity systems  
*Kravets T., Kuznetsova M., Vovk A.* The use of vapor compression heat pump for utilization of turbines' exhaust steam heat

### 13:00 - 14:00 – LUNCH

*Canteen in the 1<sup>st</sup> building of Lviv Polytechnic National University (Karpins'kogo street 2/4, basement).  
Alternatively – University canteen (Karpins'kogo street 6)*

### 19:00 – INFORMAL MEETING (CLOSING PARTY)

*University canteen (Karpins'kogo street 6).*

## NOVEMBER 26

### EXCURSIONS DAY

For more information please visit the official conference website – <http://gac.ukrscience.org>