

8TH INTERNATIONAL
CONFERENCE ON
ENERGY AND
ENVIRONMENT
2017

ENERGY SAVED TODAY IS
ASSET FOR FUTURE

**FINAL
PROGRAM**

VENUE

University POLITEHNICA of Bucharest



The University POLITEHNICA of Bucharest (UPB) is the largest and most prolific technical university in Romania. Its traditions are connected to the founding of the first Romanian technical school in 1818 by Gheorghe Lazar. However, the legacy of our institution, developed across two centuries through the effort of the nation's most important schoolmasters and through generations of students, is only a part of the complex community and ethos our university.

At a time when the world urgently needs more people who understand science and engineering, we offer the power of practical problem-solving to companies and institutions around the globe, in the effort to explore a new model of university activity — enhancing communities through science. In order to face these complex challenges, our university uses the power of our academic and student community in order to generate a sound educational environment and to develop cutting-edge research. In fact, our entire educational and even research-development policy is done with the participation of our entire community.

Our mission has always been thought over as a blend of education, research and innovation - which, in our vision, represented a key towards a knowledge-based society and economy. But as we enter in our 200th year of existence, our community is truly brimming with ideas and energy.

Initiatives across the university seem to converge towards an even greater sense

of community and a large common purpose: servicing our nation and the world through solutions to the global challenges. From clean energy to better traffic, from smarter cities and enterprises to the future of the internet, UPB aims at deploying the convergence of the life, physical, and engineering sciences as a catalyst for new solutions.

With this vision in mind, we are entering the 8th edition of the International Conference on Energy and Environment, with the mindset of finding solutions to one of the most ardent challenges of our generation - energy.

As always, the conference aims to respond to some of the important questions in the rapidly developing fields of power engineering and environmental engineering, and to inspire both research studies and practical applications through promoting interaction among scientists from universities, research institutions, and industry. Through this event we hope to build a stronger community of scientists, develop new partnerships and help society with genuine solutions to everyday problems.

Academy of Romanian Scientists



The Academy of Romanian Scientists is a national forum of scientific consecration, which brings together leading representatives of science.

The Academy of Romanian Scientists is the successor and only heir of the Academy of Sciences of Romania (1936-1948) and of the Association of Romanian Scientists, founded in 1956, and which in 1996 changed its

name in Academy of Romanian Scientists.

The main goals of AOSR are to promote, develop, support, and protect science in all its forms, through actions and methods, be they direct, indirect or adjacent. The main objectives of AOSR are:

- To promote at national level interdisciplinary research in natural, engineering, and applied sciences, as well as medical disciplines, etc. The annual organisation of two national interdisciplinary conferences.
- To initiate international contacts by creating links with academic bodies, research and higher education institutions from abroad, and also with Romanian scientists from abroad and foreign scholars.
- To develop an adequate framework where scientists from different fields might meet, thereby contributing, through information, to the creation of interdisciplinary teams with a view to solving complex issues.
- To promote young researchers, by supporting their participation in scientific events in the country and abroad, and by supporting them in obtaining scholarships, etc.
- To pen, on a contractual basis, through specialised structures, scientific research papers, to participate in governmental and nongovernmental scientific research programmes, to prepare reviews, bibliographic references and summaries.
- To provide annual awards to the best books published in various fields of science and culture.

The structure of AOSR comprises 13 specialised scientific sections and eight branches located in university towns or other cities with significant scientific potential: Bucharest – headquarters -, Braşov, Cluj-Napoca, Constanţa, Iaşi, Piatra-Neamţ, Târgovişte, Timișoara, and one branch in New York (USA).

AOSR has a Publishing House and a Library and under its aegis units of scientific

research and the Foundation „Scientia” are operating. AOSR is composed of 40 honorary members (2 of whom are members of the Romanian Academy), 133 full members (including 12 members of the Romanian Academy), and 65 corresponding members, selected on the basis of internationally recognised criteria of scientific and cultural visibility. It further includes 35 Romanians from the Diaspora and 62 foreign members, outstanding personalities of the international scientific life.

COMMITTEES

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- George Darie - Romania
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Horia Necula – Chair

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Mihaela Norişor; Gabriela Sava; Adrian Stan; Vladimir Tanasiev; Diana Tuţică;
Elena Vasile.

CIEM 2017 AT-A-GLANCE FULL PROGRAM

Thursday 19 October 2017

09:00-10:00	<i>Opening Ceremony</i> Room AN 010 (Rectorat Building)		
10:00-11:00	Transfer to Conference Centre		
10:00-16:00	<i>Registration</i> Conference Centre		
10:00-11:00	<i>Coffee break</i>		
11:00-12:30	Technical Sessions <i>Power Systems</i> (1) <i>Hall - 2.1</i>	Technical session <i>Environmental Impact</i> (1) <i>Hall - 2.2</i>	Technical session <i>Energy Efficiency</i> (1) <i>Hall - 2.3</i>
	Technical session <i>Hydro Power Plants</i> (1) <i>Hall - 3.1</i>	Technical session <i>Nuclear Power Energy</i> <i>Hall - 3.2</i>	
12:30-14:00	<i>Lunch</i>		
14:00-15:30	Technical Sessions <i>Power Systems</i> (2) <i>Hall - 2.1</i>	Technical session <i>Environmental Impact</i> (2) <i>Hall - 2.2</i>	Technical session <i>Energy Efficiency</i> (2) <i>Hall - 2.3</i>
	Technical session <i>Hydro Power Plants</i> (2) <i>Hall - 3.1</i>		
15:30-16:00	<i>Coffee break</i>		
16:00-18:00	Technical Sessions <i>Power Systems</i> (3) <i>Hall - 2.1</i>	Technical session <i>Environmental Impact</i> (3) <i>Hall - 2.2</i>	Technical session <i>Energy Efficiency</i> (3) <i>Hall - 2.3</i>
	Technical session <i>Hydro Power Plants</i> (3) <i>Hall - 3.1</i>		

Friday 20 October 2017

9:00 – 10:30	Technical session <i>Renewable Energies</i> (1) <i>Hall – 2.1</i>	Technical session <i>Fluid Mechanics and Applications</i> (1) <i>Hall – 2.2</i>	Technical session <i>Energy & Environment for Buildings</i> <i>Hall – 3.1</i>
	Technical session <i>Smart Cities</i> <i>Hall – 2.3</i>		
10:30-11:00	<i>Coffee break</i>		
11:00-12:30	Symposium <i>"Wind Engineering: Actuality and Perspectives"</i> Co-organized with Romanian Wind Engineering Association <i>Hall – 3.2</i>		
	Technical session <i>Renewable Energies</i> (2) <i>Hall – 2.1</i>	Technical session <i>Fluid Mechanics and Applications</i> (2) <i>Hall – 2.2</i>	Technical session <i>Fossil Fuels Power and Heat Generation</i> <i>Hall – 2.3</i>
12:30-14:00	<i>Lunch</i>		
	Technical session <i>Renewable Energies</i> (3) <i>Hall – 3.2</i>		

AT-A-GLANCE FULL PROGRAM

Wednesday 18 October 2017

Hotel NOVOTEL Bucharest City Centre - 37B Calea Victoriei

19:00 – 20:30 Welcome Cocktail

Thursday 19 October 2017

University Politehnica of Bucharest - 313 Splaiul Independentei

Room AN 010 (Rectorat Building)

09:00 – 10:00 Opening Ceremony

Conference Centre

10:00 – 16:00 Registration

10:00 – 11:00 Coffee Break

11:00 – 12:30 Technical Sessions

- Power Systems (part 1)
- Environmental Impact (part 1)
- Energy Efficiency (part 1)
- Hydro Power Plants (part 1)
- Nuclear Power Energy

12:30 – 14:00 Lunch

14:00 – 15:30 Technical Sessions

- Power Systems (part 2)
- Environmental Impact (part 2)
- Energy Efficiency (part 2)
- Hydro Power Plants (part 2)

15:30 – 16:00 Coffee Break

16:00 – 18:00 Technical Sessions

- Power Systems (part 3)
- Environmental Impact (part 3)
- Energy Efficiency (part 3)
- Hydro Power Plants (part 3)

Restaurant “Clubul Diplomaților” - 2B, Șoseaua București-Ploiești 2B

20:00 – 24 :00 Gala Dinner

Friday 20 October 2017

University Politehnica of Bucharest - 313 Splaiul Independentei

Conference Centre

09:00 – 10:30 Technical Sessions

- Renewable Energies (part 1)
- Fluid Mechanics and Applications (part 1)
- Energy & Environment for Buildings
- Smart Cities

10:30 – 11:00 Coffee Break

11:00 – 12:30 Technical Sessions

- Renewable Energies (part 2)
- Fluid Mechanics and Applications (part 2)
- Fossil Fuels Power and Heat Generation

11:00 – 12:30 Symposium "Wind Engineering: Actuality and Perspectives"

Co-organized with Romanian Wind Engineering Association

12:30 – 14:00 Lunch

14:00 – 15:30 Technical Session

- Renewable Energies (part 3)

POWER SYSTEMS (1)

THURSDAY 19 OCTOBER 2017 (11:00 – 12:30)

Location: Conference Centre - Hall 2.1

SESSION CHAIRS: MARCEL ISTRATE, MARIACRISTINA ROSCIA

- **ID058** - *ADVANCED CONTROL OF A MODULAR MULTILEVEL HIGH VOLTAGE DIRECT CURRENT CONVERTER* - Ioan C. Damian, Mircea Eremia, Lucian Toma
- **ID061** - *MODELING QUADRATURE BOOSTER IN POWER SYSTEM STATE ESTIMATION IN RECTANGULAR COORDINATE SYSTEM* - Tomasz Okoń, Kazimierz Wilkosz
- **ID092** - *THE BEHAVIOR OF HIGH VOLTAGE INSULATORS DURING THE UP-AND-DOWN PROCEDURE* - Marian Costea, Ileana Băran
- **ID109** - *ENERGY STORAGE FOR REACHING 100% CO₂ FREE AND 100% RES – PRELIMINARY CASE STUDY FOR ROMANIA* - Mihai Sanduleac, Lucian Toma, Constantin Bulac, Mircea Eremia, Nicolae Golovanov, Mihaela Albu, Stefan Gheorghe, Catalin Chimirel, Radu Porumb
- **ID018** - *POWER SYSTEM HARMONICS AND INTERHARMONICS ANALYSIS USING SYNCHRONOUS REFERENCE FRAMES AND FREQUENCY ADAPTIVE MOVING AVERAGE WINDOWS* - Ebrahim Balouji, Ozgul Salor
- **ID056** - *IMPROVING PREDICTIVE MAINTENANCE FOR HVDC TRANSMISSION SYSTEMS THROUGH ANALYTIC HIERARCHY PROCESS* - Dana-Alexandra Ciupăgeanu, Sorina Costinaş

POWER SYSTEMS (2)

THURSDAY 19 OCTOBER 2017 (14:00 – 15:30)

Location: Conference Centre - Hall 2.1

SESSION CHAIRS: CALIN MUNTEANU, ION TRISTIU

- **ID012** - *MEASUREMENT CAMPAIGN AND EXPERIMENTAL RESULTS OF AN ISLANDED MICROGRID* - Alessandro Labella, Daniele Mestriner, Fabio Pampararo, Renato Procopio
- **ID132** - *INTEGRATION OF PHOTOVOLTAICS IN A SUSTAINABLE IRRIGATION SYSTEM FOR AGRICULTURAL PURPOSES* - Nicolae Badulescu, Ion Tristiu
- **ID021** - *ALGORITHM FOR OPTIMAL CONFIGURATION OF ELECTRIC NETWORKS* - Lucian Ioan Dulau, Dorin Bica, Karoly Ronay
- **ID037** - *EMBEDDED MONITORING AND MANAGEMENT SOFTWARE UNIT FOR DISTRIBUTED GENERATION SYSTEM IN ELECTRIC NETWORKS* - Karoly Ronay, Dorin Bica, Lucian Ioan Dulau
- **ID013** - *OPTIMUM LOCATION AND SIZE OF CAPACITOR BANKS TO REDUCE LOSSES IN POWER DISTRIBUTION NETWORKS USING GENETIC ALGORITHM* - Andrei Ioaneş, Radu Tîrnovan
- **ID075** - *THE TRAINING MODEL OF 110 KV STEP-DOWN SUBSTATION IN 1/10 SCALE* - Alexander O. Egorov, Anastasia A. Larionova, Stanislav A. Eroshenko, Alexandra I. Khalyasmaa

POWER SYSTEMS (3)

THURSDAY 19 OCTOBER 2017 (16:00 – 18:00)

Location: Conference Centre - Hall 2.1

SESSION CHAIRS: DARIO ZANINELLI, MIHAI GAVRILAS

- **ID017** - *PRICE BASED UNIT COMMITMENT FOR BIDDING STRATEGIES IN TURKISH MARKET UNDER UNIT AND SYSTEM CONSTRAINTS* - Ali Okuslug, Ali Nezih Guven, Osman Bulent Tor, Adela Bara, Simona Vasilica Oprea
- **ID088** - *EFFICIENCY ASSESSMENT OF THE METHODS OF POWER LOSS*
- *DISTRIBUTION BETWEEN ELECTRICITY MARKET PARTICIPANTS* - Alexandra I. Khalyasmaa, Nikita Y. Korobeinikov, Stanislav A. Eroshenko, Kirill Y. Korobeynikov
- **ID131** - *LOAD CURVES MODELLING USING ALGEBRAIC POLYNOMIALS* - Ion Tristiu, Constantin Ghinea, Constantin Bulac, Sorina Costinas
- **ID099** - *DISTRIBUTED SYNTHETIC INERTIA CONTROL IN POWER SYSTEMS* - Harold R. Chamorro, Andres C. Sanchez, Amund Øverjordet, Fernando Jimenez, Francisco Gonzalez-Longatt, Vijay K. Sood
- **ID107** - *DESIGN AND SIMULATION OF PI-TYPE CONTROL FOR THE BUCK BOOST CONVERTER* - Minh Quan Duong, Gabriela Nicoleta Sava, Marco Mussetta, Mircea Scripcariu, Van Tan Nguyen
- **ID027** - *IMPROVEMENT OF DIFFERENTIAL PROTECTION PERFORMANCE BY EXTERNAL FAULTS ASSOCIATED WITH A CURRENT TRANSFORMER SATURATION* - Feras Mahfoud, George Cristian Lazaroiu, Tarek Kherbek, Tammam Hayder
- **ID063** - *THE INTERPHASE POWER CONTROLLER. STATIC AND DYNAMIC ASPECTS* - Lev Kalinin, Dmitrii Zaitsev, Mihai Tirsu, Danila Kaloshin, George Cristian Lazaroiu

- **ID045** - *CONCEIVING AND DESIGNING A HELMHOLTZ TYPE COIL TO SIMULATE THE MAGNETIC FIELD ORIENTATION IN THE TERRESTRIAL ATMOSPHERE* -

Lucian Mândrea, Zoltan Marosy, Marian Costea, Cristian Constantinescu

ENVIRONMENTAL IMPACT (1)

THURSDAY 19 OCTOBER 2017 (11:00 – 12:30)

Location: Conference Centre - Hall 2.2

SESSION CHAIRS: KONSTANTINOS PAPATHEODOROU, DIANA LACRAMIOARA ROBESCU

- **KS** - *GROUNDWATER PROTECTION AND MANAGEMENT: CURRENT STATUS AND FUTURE TRENDS* - KONSTANTINOS PAPATHEODOROU
- **ID008** - *A PROCEDURE TO DEVELOP ELEVATION-AREA-CAPACITY CURVES OF RESERVOIRS FROM DEPTH SOUNDING SURVEYS* - Daniela E. Gogoase Nistoran, Andrei Dragomirescu, Cristina Sorana Ionescu, Mihai Schiaua, Nicolae Vasiliu, Mihail Georgescu
- **ID101** - *DETERMINATION OF OXYGENATION PERFORMANCES OF AERATION EQUIPMENT* - Corina Boncescu, Diana Lacramioara Robescu
- **ID115** - *WATER FLOW STRUCTURE OPTIMIZATION BETWEEN THE SCREENINGS AND GRIT REMOVALS IN A WASTEWATER PLANT* - Mihnea Sandu, Florin Bode, Paul Danca, Ionut Voicu

ENVIRONMENTAL IMPACT (2)

THURSDAY 19 OCTOBER 2017 (14:00 – 15:30)

Location: Conference Centre - Hall 2.2

SESSION CHAIRS: ADRIAN ADAM, COSMIN MARCULESCU

- **ID032** - *THE ENERGY METHOD TO PROTECT THE ENVIRONMENT FROM WASTE IN THE LEATHER INDUSTRY* - Bondrea (Nastase) Dana Andrey, Gheorghe Lazaroiu, Mocanu Raluca, Adrian Stan, Mihaescu Lucian, Balanescu Liviu, Berbec Viorel
- **ID084** - *AN INTEGRATED ASSESSMENT OF ENERGY RECOVERY OPTIONS FROM MUNICIPAL SOLID WASTE* - Constantin Stan, Tiberiu Apostol, Constantin Streche
- **ID123** - *TOTAL AND SUSPENDED SOLIDS REMOVAL EVALUATION IN EFFLUENT FROM ANAEROBIC BIOREACTOR AND EFFLUENT FROM CYCLIC OZONATION-BIOTREATMENT IN DYEING INDUSTRY WASTEWATER TREATMENT* - Amir Hajiali
- **ID133** - *LOCAL ENVIRONMENTAL IMPACT OF WOOD COMBUSTION IN AGRO-TOURISM STRUCTURES* - Lucian Ionel Cioca, Ramona Giurea, Ioan Achim Moise, Ilaria Precazzini, Marco Ragazzi, Elena Cristina Rada
- **ID125** - *AMBIENT AIR POLLUTION DUE TO COMBUSTION OF OLIVE CAKE AS A SOURCE OF ENERGY* - Kamel K. Al-zboon
- **ID077** - *SERIOUS GAMING: ENVIRONMENTAL IMPACT THROUGH MATH* - Corina Grosu, Marta Grosu

ENVIRONMENTAL IMPACT (3)

THURSDAY 19 OCTOBER 2017 (16:00 – 18:00)

Location: Conference Centre - Hall 2.2

SESSION CHAIRS: ADRIAN ADAM, DIANA LACRAMIOARA ROBESCU

- **KS** - *IMPROVING STUDENTS' KNOWLEDGE AND SKILLS RELATED TO ENVIRONMENTAL ENGINEERING USING INNOVATIVE LEARNING AND TRAINING SOLUTIONS* - Diana Robescu
- **ID070** - *ACOUSTIC MEASUREMENTS FOR TWO CONFIGURATIONS OF ACOUSTIC CASINGS WITH APPLICATIONS ON AMBIENT NOISE POLLUTION* - Laurentiu TACUTU, Adrian POCOLA, Mugur BALAN, Vlad IORDACHE
- **ID076** - *LIFE CYCLE ENVIRONMENTAL ASSESSMENT OF THE PRODUCTION OF RARE EARTH ELEMENTS FROM GOLD PROCESSING* - Bogusław Bieda, Katarzyna Grzesik, Ryszard Kozakiewicz, Karolina Kossakowska
- **ID082** - *POLLUTION ASSESSMENT OF HISTORICALLY CONTAMINATED SOILS WITH PETROLEUM PRODUCTS* - Delia Micaela Dumitru, Silvia Crognale, Diana Mariana Cocârță, Adrian Badea
- **ID087** - *EVALUATION OF THE EFFICIENCY OF COMBINING THE ELECTROCHEMICAL REMEDIATION AND SOIL FLUSHING METHODS IN THE SOIL CONTAMINATION WITH DIESEL* - Constantin Streche, Tudor Baracu, Tiberiu Apostol, Diana Mariana Cocarta, Constantin Stan
- **ID097** - *RESEARCH ON THERMAL COMFORT AND INDOOR AIR POLLUTION IN A PASSENGER CAR* - Andreea Vartires, Iolanda Colda, Sanda Mirela Toropoc
- **ID141** - *THE HYDROPOWER DEVELOPMENTS AND THE PROTECTED AREAS* - Dana Criznic, Carmen Nap, Maria Isabela Nedelcu
- **ID124** - *OIL IN WATER DISPERSION: EFFECTS OF DISPERSED PHASE VISCOSITY AND AGITATION SPEED IN THE STR* - Mahsa Jafari, Mohammad Reza Khosravi Nikou, Mohsen Motavassel

ENERGY EFFICIENCY (1)

THURSDAY 19 OCTOBER 2017 (11:00 – 12:30)

Location: Conference Centre - Hall 2.3

SESSION CHAIRS: JOCELYN BONJOUR, HORIA NECULA

- **KS** - *WHY AND HOW SHOULD WE STUDY BOILING HEAT TRANSFER CLOSE TO THE TRIPLE POINT?* - Jocelyn Bonjour
- **ID074** - *NEW TECHNOLOGY IN COMFORT COOLING APPLICATIONS: EXPERIMENTAL STUDY ON PARAFFIN IN WATER EMULSION* - Virginia Vasile, Jocelyn Bonjour, Rémi Revellin, Philippe Haberschill, Adrian Badea, Horia Necula
- **ID100** - *STUDY OF THERMAL ENERGY STORAGE USING PHASE CHANGE MATERIALS* - Paul Dobrescu, Constantin Ionescu, Horia Necula
- **ID035** - *ASPECTS REGARDING FOULING OF THE HEAT EXCHANGER COILS AND FILTERS ON THE PERFORMANCE OF PACKAGED AIR TO AIR HVAC SYSTEM* - Marian Voinea, Horia Necula, Ioan Bitir-Istrate
- **ID137** - *ENERGY EFFICIENT SINGLE DETACHED DWELLINGS BEYOND ONTARIO BUILDING CODE* - Dragos Paraschiv, Rory McDowall, Chad Thurlow

ENERGY EFFICIENCY (2)

THURSDAY 19 OCTOBER 2017 (14:00 – 15:30)

Location: Conference Centre - Hall 2.3

SESSION CHAIRS: MICHEL FEIDT, RODICA FRUNZULICA

- **KS** - *EFFICACITE ENERGETIQUE ET CHALEURS FATALES* - Michel Feidt
- **ID010** - *ENERGY SAVING INVESTIGATION OF HEAT AND ENERGY RECOVERY VENTILATION UNITS* - Miklos Kassai
- **ID102** - *HEAT LOSSES IN DISTRICT HEATING NETWORK IN DYNAMIC REGIMES* - Sanda Mirela Toropoc, Rodica Frunzulica, Radu Mihai Valentin
- **ID020** - *ENERGY EFFICIENCY STUDY OF THE PAPER MAKING DRYING PROCESS* - Ioana Diaconescu, Roxana Patrascu, Eduard Minciuc

ENERGY EFFICIENCY (3)

THURSDAY 19 OCTOBER 2017 (16:00 – 18:00)

Location: Conference Centre - Hall 2.3

SESSION CHAIRS: SVILEN RACHEV, EDUARD MINCIUC

- **KS** - *THERMO-ECONOMIC AND ENVIRONMENTAL EVALUATION OF HEAT PUMP IN COMPARISON TO CONVENTIONAL HEATING SYSTEMS* - Alojz Poredos
- **ID011** - *STUDY THE EFFECTS OF NO NOMINAL CONDITIONS ON THE PERFORMANCE OF HIGH EFFICIENCY INDUCTION MOTOR* - Svilen Rachev, Lyubomir Dimitrov, Ivaylo Ivanov, Konstantinos Karakoulidis
- **ID026** - *IMPROVING ENERGY EFFICIENCY FOR PUBLIC LIGHTING OF PEDESTRIAN CROSSINGS* - Ionut Ciobanu, Nicolae Golovanov, Cristian George Lazaroiu
- **ID049** - *EXPERIMENTAL VALIDATION DATA FOR CFD OF HEAT TRANSFER PROCESSES IN A NEW THERMOSYPHON HEAT EXCHANGER* - Iliya Iliev, Angel Terziev, Ivan Beloev, Veselka Kamburova
- **ID050** - *INCREASING ENERGY EFFICIENCY OF THE GASES PRODUCTION PROCESS IN BAKERY OVENS* - Chelmenciuc Corina
- **ID078** - *TOP-DOWN MODEL FOR THE CALCULATION OF ENERGY SAVINGS* - Adrian Andrei Adam, Anca Badea

HYDRO POWER ENGINEERING (1)

THURSDAY 19 OCTOBER 2017 (11:00 – 12:30)

Location: Conference Centre - Hall 3.1

SESSION CHAIRS: MICHEL CERVANTES, SANDA-CARMEN
GEORGESCU

- **KS** - *FLOW MEASUREMENTS IN LOW HEAD MACHINES* - Michel J. Cervantes
- **KS** - *FLOATING VERTICAL AXIS WIND TURBINE - OWLWIND PROJECT* - Jean-Luc Achard, Guillaume Maurice, Guillaume Balarac, Stéphane Barre
- **ID044** - *POWER PREDICTION METHOD APPLICABLE TO HORIZONTAL AXIS HYDROKINETIC TURBINES* - Rareş-Andrei Chihaia, Florentina Bunea, Gabriela Oprina, Lucia-Andreea El-Leathey
- **ID039** - *DISCHARGE MEASUREMENT IN LOW HEAD HYDRO POWER PLANTS* - Thomas Staubli, André Abgottspon
- **ID068** - *IMPLEMENTATION OF THE STANDARD WALL FUNCTION IN NUMERICAL COMPUTATION SOFTWARE* - Ionuț Stelian Grecu, Diana Maria Bucur, Georgiana Dunca, Valeriu Nicolae Panaitescu, Michel J. Cervantes

HYDRO POWER ENGINEERING (2)

THURSDAY 19 OCTOBER 2017 (14:00 – 15:30)

Location: Conference Centre - Hall 3.1

SESSION CHAIRS: ORAZIO GIUSTOLISI, ANDREI-MUGUR
GEORGESCU

- **KS** - *LEAKAGE AND ENERGY MANAGEMENT USING WDNETXL SYSTEM* - Orazio Giustolisi
- **ID079** - *OPTIMAL PUMP SCHEDULING STRATEGIES ACCOUNTING FOR BACKGROUND LEAKAGES AND ENERGY COST* - Luigi Berardi, Daniele Biagio Laucelli, Antonietta Simone, Orazio Giustolisi
- **ID105** - *REDUCING BACKGROUND LEAKAGES AND ENERGY CONSUMPTION IN A REAL WDN BY OPTIMAL DMA DESIGN* - Daniele Biagio Laucelli, Luigi Berardi, Orazio Giustolisi, Cătălin-Gabriel Andrei
- **ID103** - *HYDRAULIC BALANCING OF THE COOLING WATER SYSTEM OF A PUMPED STORAGE POWER PLANT* - Sanda-Carmen Georgescu, Diana Maria Bucur, Georgiana Dunca, Andrei-Mugur Georgescu, Alina Alexandrina Nicolae, Petre-Ovidiu Ciuc
- **ID122** - *ENERGY CONSUMPTION DUE TO PIPE BACKGROUND LEAKAGE IN A DISTRICT WATER DISTRIBUTION SYSTEM IN BUCHAREST* - Andrei-Mugur Georgescu, Sorin Perju, Remus Alexandru Mădulărea, Sanda-Carmen Georgescu

HYDRO POWER ENGINEERING (3)

THURSDAY 19 OCTOBER 2017 (16:00 – 18:00)

Location: Conference Centre - Hall 3.1

SESSION CHAIRS: CARMEN-ANCA SAFTA, FLORENTINA BUNEA

- **ID121** - *HBMOA COMPUTATIONAL EFFICIENCY ASSESSED FOR A HYDROPOWER OPTIMIZATION PROBLEM* - Eliza Isabela Tica, Angela Neagoe, Sanda-Carmen Georgescu, Silvia Nastase
- **ID118** - *ASSESSMENT OF THE POSSIBILITY TO MODEL A TOE DAM HYDROPOWER PLANT USING DEDICATED SOFTWARE* - Alexandru Moldoveanu, Eliza-Isabela Tica, Bogdan Popa, Florica Popa
- **ID057** - *MODIFIED HONEY BEES MATING ALGORITHM FOR OPTIMAL WEEKLY OPERATION OF A PUMPED STORAGE PLANT* - Eliza Isabela Tica, Radu Popa
- **ID127** - *ASSESSING THE OPPORTUNITY TO USE THE INFRARED THERMOGRAPHY METHOD FOR PREDICTIVE MAINTENANCE OF HYDROSTATIC PUMPS* - Alexandru-Daniel Marinescu, Corneliu Cristescu, Teodor Costinel Popescu, Carmen-Anca Safta
- **ID128** - *IMAGE PROCESSING APPROACH FOR ESTIMATING THE DEGREE OF SURFACE DEGRADATION BY CORROSION* - Elena Crina Cringasu, Andrei Dragomirescu, Carmen-Anca Safta
- **ID140** - *STRUCTURED APPROACH TO INCIDENTS IN HYDROELECTRIC POWER PLANT* - Laurentiu Iovan, Gabriela Pricopie
- **ID142** - *TECHNOLOGICAL OWN CONSUMPTION. CASE STUDY: HIDROELECTRICA - SH BISTRITA* - Raluca Paraschiva Balmus

NUCLEAR POWER ENERGY

THURSDAY 19 OCTOBER 2017 (11:00 – 12:30)

Location: Conference Centre - Hall 3.2

SESSION CHAIRS: TEODOR CHIRICA, DANIEL DUPLAC

- **ID023** - *ASPECTS REGARDING THE STEAM GENERATOR TUBE PLUGGING AT THE SUPPORT PLATE ENTRANCE USING A HIGH SPEED MECHANICAL DEFORMATION PROCEDURE* - Tiberiu Gyongyosi, Dumitru Puiu, Bogdan Corbescu, Gheorghe Deloreanu, Ilie Prisecaru
- **ID034** - *NEUTRONIC CALCULATION AND COMPARISON OF TWO PROPOSED MOLTEN SALT REACTOR GEOMETRIES* - Stăfăie Catalin Alexandru, Dominic Eugeniu Moraru
- **ID052** - *REVIEW OF THE INTERMITTENT BUOYANCY INDUCED FLOW CORE COOLING FOR A CANDU TYPE REACTOR* - Marian Iacobet
- **ID062** - *ON SOME ASPECTS OF THE MULTIUNIT PROBABILISTIC SAFETY ANALYSES MODELS* - Dan Serbanescu
- **ID064** - *KEY PARAMETERS IN THE EARLY STAGES OF A STATION BLACKOUT ANALYSIS IN A CANDU 6 REACTOR USING RELAP/SCDAPSIM* - R. M. Nistor-Vlad, D. Dupleac, I. Prisecaru
- **ID071** - *DETERMINATION OF AMERICIUM AND PLUTONIUM ISOTOPES OUT OF SPENT NUCLEAR FUEL SOLUTION USING ELECTRODEPOSITION TECHNIQUE* - Petre Marina, Lazar Cosmina, Man Ion, Mincu Marin, Prisecaru Ilie
- **ID108** - *LOOP FOR STUDYING THE FLOW OF LEAD IN A THERMAL-HYDRAULIC CIRCUIT. TECHNICAL DESIGN* - Cojocaru Virgil, Horoi Marian, Ionescu Viorel, Prisecaru Ilie

RENEWABLE ENERGIES (1)

FRIDAY 20 OCTOBER 2017 (9:00 – 10:30)

Location: Conference Centre - Hall 2.1

SESSION CHAIRS: SERGIU NICOLAIE, CARMEN ANCA SAFTA

- **ID019** - *FLEXIBLE HARMONIC DOMAIN MODEL OF A PHOTOVOLTAIC SYSTEM FOR STEADY-STATE ANALYSIS* - Uriel Vargas, George Cristian Lazaroiu, Abner Ramirez
- **ID033** - *IMPLEMENTATION OF PRIMARY FREQUENCY REGULATION ON FULLY RATED WIND TURBINE GENERATORS* - Andrea Bonfiglio, Francisco M. Gonzalez-Longatt, Alessandro Labella, and Renato Procopio
- **ID055** - *SINGLE - STAGE SINGLE - PHASE GRID - CONNECTED PHOTOVOLTAIC SYSTEM WITH CURRENT RIPPLE MITIGATION BASED ON NONLINEAR CONTROL* - Pablo R. Rivera, Michael L. McIntyre, Mohammad Mohebbi, Joseph Latham
- **ID126** - *A DIRECT SENSITIVITY ANALYSIS OF A PIEZOELECTRIC ENERGY HARVESTER* - Marius Stoia-Djeska, Florin Frunzulica, Carmen-Anca Safta
- **ID066** - *NUMERICAL STUDY OF THE FLOW INSIDE A WIND TRAPPING SYSTEM* - Matei-Razvan Georgescu, Alexandru Cezar Vladut, Costin Ioan Cosoiu, Andrei-Mugur Georgescu
- **ID060** - *EXPERIMENTAL VALIDATION OF A PERMANENT-MAGNET MICRO-WIND TURBINE GENERATOR WITH COUNTER ROTATING ROTORS* - Marius Drancă, Mihai Chirca, Sorin Cosman, Florin Jurca, Ștefan Breban

RENEWABLE ENERGIES (2)

FRIDAY 20 OCTOBER 2017 (11:00 – 12:30)

Location: Conference Centre - Hall 2.1

SESSION CHAIRS: MIHAI VARLAM, VIRGIL DUMBRAVA

- **ID091** - *SEQUENTIAL OPTIMIZATION OF A SOLAR STIRLING SYSTEM* - Borcila Bogdan, Michel Feidt, Monica Costea, Stoian Petrescu
- **ID081** - *DESIGN OPTIMIZATION OF A FLYWHEEL USING SOLIDWORKS MODELING AND SIMULATION CAPABILITIES* - Ionel Chirita, Nicolae Tanase, Simona Emilia Apostol, Cristinel Ilie, Marius Popa
- **ID085** - *FUNCTIONAL ASSESSMENT SYSTEM OF SOLAR POWER PLANT ENERGY PRODUCTION* - Denis A. Snegirev, Rustam T. Valiev, Stanislav A. Eroshenko, Alexandra I. Khalyasmaa
- **ID040** - *THE SOLAR RADIATION INFLUENCE ON THE MICROCLIMATE IN THE HEALING TUNNELS/ROOMS FOR GRAFTED VEGETABLES* - Ionel Lucian Dumitrescu, Adrian-Gabriel Ghiaus
- **ID053** - *THE EVOLUTION OF GREEN CERTIFICATE SUPPORT SCHEME FOR PROMOTING RENEWABLE ENERGY IN ROMANIA* - Roxana Nicoloiu, Irina Voda, Ioana Ionel

RENEWABLE ENERGIES (3)

FRIDAY 20 OCTOBER 2017 (14:00 – 15:30)

Location: Conference Centre - Hall 2.1

SESSION CHAIRS: CAMELIA STANCIU, COSMIN MARCULESCU

- **ID083** - *STORAGE TANK MASS CONTROL FOR OPTIMUM SOLAR-POWERED ABSORPTION COOLING SYSTEM OPERATION* - Camelia Stanciu, Dorin Stanciu, Beatrice Tanase, Adina Gheorghian, Catalina Dobre
- **ID096** - *MATHEMATICAL MODELING AND SIMULATION OF A THERMAL SYSTEM USING SOLAR RADIATION AS ENERGY SOURCE* - Sanda Mirela Toropoc, Rodica Frunzulica, Petrica Daniel Toma
- **ID086** - *Thermal Energy Production from Closed Geothermal Reservoirs Using Reinjection* - Codruta Calina Bendea, Cornel Antal, Florica Popa, Florin Georgescu, Bogdan Popa
- **ID104** - *BIOMASS O.R.C. COGENERATION - A CASE STUDY* - Stefan-Dominic Voronca, George Darie, Roxana Patrascu
- **ID111** - *BIOGAS PRODUCTION MODELING AND SIMULATION IN LOW END CONDITIONS* - Laura Alexandra Stanescu, Lacramioara Diana Robescu, Harry Futselaar
- **ID119** - *SOLUTION FOR EFFICIENT COMBUSTION OF THE BIOGAS OBTAINED DEPENDING ON THE CHARACTERISTICS OF THE ANAEROBIC FERMENTATION OF ANIMAL PROTEIN* - Madalina Mavrodin, Gheorghe Lazaroiu, Lucian Mihaescu, Ionel Pisa, Gabriel Negreanu, Elena Pop, Viorel Berbece, Andrey Bondrea
- **ID136** - *TRANSITORY REGIME OF WOOD BIOMASS AIR GASIFICATION* - Raluca Nicoleta Tirtea, Iustina Stanciulescu, Gabriela Ionescu, Cora Bulmau, Cosmin Marculescu, Dorin Boldor

FLUID MECHANICS AND APPLICATIONS (1)

FRIDAY 20 OCTOBER 2017 (9:00 – 10:30)

Location: Conference Centre - Hall 2.2

SESSION CHAIRS: ROLAND KÁDÁR, CORNELIU BALAN

- **ID072** - *NUMERICAL STUDY OF THE SECONDARY PHASE DISPERSION IN A PARTICLE-LADEN FLOW* - Matei-Razvan Georgescu, George-Madalin Chitaru, Costin Ioan Cosoiu, Ionut Brinza, Catalin Nae
- **ID129** - *EXPERIMENTAL INVESTIGATION ON THE BEHAVIOR OF A TALL AND SLENDER BUILDING PLACED IN A TURBULENT BOUNDARY LAYER* - Elena-Alexandra Chiulan, Ion Popa, Alexandru Cezar Vladut, Costin Ioan Cosoiu, Andrei-Mugur Georgescu, Anton Anton, Mircea Degeratu
- **ID065** - *HYDRAULIC PHYSICAL SCALE MODELING OF A COMPLEX SEWAGE SYSTEM* - Nicolae-Ioan Alboiu, Madalin Mihailovici, Valentin Zaharia
- **ID067** - *COUPLING OF A THERMO-MECHANICAL MODEL FOR NTE TO A FLUID SOLVER* - Rosanne Fay, Yan Delauré, Georgiana Tirca - Dragomirescu, Kevin O'Toole
- **KS** - *FLOW STABILITY OF VISCOUS AND VISCO-ELASTIC FLUIDS* - Roland Kádár

FLUID MECHANICS AND APPLICATIONS (2)

FRIDAY 20 OCTOBER 2017 (11:00 – 12:30)

Location: Conference Centre - Hall 2.2

SESSION CHAIRS: CORNELIU BALAN, ADRIAN CIOCANEA

- **ID046** - *JETTING FLOW AND DIFFUSION PROCESS IN THE VICINITY OF CONVEX SURFACES* - Diana Broboana, Cristina Sorana Ionescu, Stefan Mugur Simionescu, Corneliu Balan
- **ID059** - *INFLUENCE OF SURFACE STRUCTURE ON IMPINGING JETS AERODYNAMICS* - Stefan-Mugur Simionescu, Nilesch Dhondoo, Corneliu Balan
- **ID025** - *FLOW FOCUSING AT THE INTERFACE OF TWO IMMISCIBLE LIQUIDS* - Claudiu Patrascu, Alina Chipaila, Ana Loboda, Corneliu Balan
- **ID089** - *IMPROVING THE HYDRAULIC EFFICIENCY OF CENTRIFUGAL IMPELLERS BY USING REVERSE ENGINEERING - CASE STUDY OF A CENTRIFUGAL PUMP* - Adrian Ciocanea, Sanda Budea, IonuT Sisman
- **ID095** - *INFLUENCE OF THE VOLUTE DESIGN ON PERFORMANCES OF A CENTRIFUGAL COMPRESSOR* - Oana Dumitrescu, Gheorghe Fetea, Bogdan Gherman

ENERGY & ENVIRONMENT FOR BUILDINGS

FRIDAY 20 OCTOBER 2017 (9:00 – 10:30)

Location: Conference Centre - Hall 3.1

SESSION CHAIRS: ILINCA NASTASE, MIHNEA SANDU

- **ID112** - *TRANSPIRED SOLAR COLLECTORS ENERGY EFFICIENCY IMPROVEMENT USING INERTIAL MATERIALS* - Andrei-Stelian Bejan, Abdelouhab Labihi, Cristiana Croitoru, Daniel Bordianu, Hassan Chehouani
- **ID116** - *THE INFLUENCE OF THE INLET ANGLE OF VEHICLE AIR DIFFUSER ON THE THERMAL COMFORT OF PASSENGERS* - Ilinca Nastase, Paul Danca, Florin Bode, Amina Meslem
- **ID117** - *NUMERICAL AND EXPERIMENTAL STUDY FOR THE DEVELOPMENT OF AN ADVANCED MODEL OF AN OPERATING ROOM WITH SURGEONS AND PATIENT* - Florin Bode, Laurentiu Tacutu, Cristiana Croitoru, Ilinca Nastase
- **ID042** - *EXTERIOR SHADES ENERGY EFFICIENCY FOR A MIXT, OFFICE - RESIDENTIAL BUILDING IN BUCHAREST* - Ioana Udrea, Romeo Traian Popa
- **ID041** - *THERMAL BRIDGES EVALUATION FOR A PASSIVE HOUSE BUILDING IN ROMANIAN SOUTHERN CLIMATE* - Ioana Udrea, Romeo Traian Popa, Emilia-Cerna Mladin, Mihaela-Stela Georgescu, Cristina Victoria Ochinciuc
- **ID014** - *BEHAVIOR OF CONFINED MASONRY WALLS IN DUAL BUILDINGS* - Sorina Constantinescu
- **ID015** - *IMPORTANCE OF MASONRY INFILL WALLS FOR FRAMED BUILDINGS* - Sorina Constantinescu

SMART CITIES

FRIDAY 20 OCTOBER 2017 (9:00 – 10:30)

Location: Conference Centre - Hall 2.3

SESSION CHAIRS: PHILIPPE DUQUENNE, CRISTIAN LAZAROIU

- **ID036** - *THE IMPORTANCE OF BUILDING CLUSTERS TRADING IN SMART CITIES* - M. Teliceanu, N. Golovanov, G.C. LazaroIU, V. Dumbrava
- **ID047** - *SEWER SYSTEM CALIBRATION FOR SMART CITIES* - Alexandra Georgiana Ioan, Anton Anton
- **ID054** - *LOAD PROFILES IN SMART CITIES* - Petronela-Raluca Mincu, Tudor Boboc
- **ID093** - *STOCHASTIC PROGRAMMING APPROACH FOR TEP OPTIMIZATION CONSIDERING RES INTEGRATION IN ELECTRICITY MARKET* - Catalina Alexandra Sima, George Cristian LazaroIU, Virgil Dumbrava, Mariacristina Roscia, Dario Zaninelli, Philippe Duquenne
- **ID110** - *ELECTRIC VEHICLE USE IN PUBLIC FLEETS: THE CASE OF THE GENOA UNIVERSITY* - Federica Foiadelli, Michela Longo, Federico Delfino, Stefano Bracco, Domenico Spina, Tom Dhaene
- **ID134** - *SMART METERING PLATFORM AS A SOLUTION FOR DATA ANALYSIS* - Negrea Liviu Andrei, Vladimir Tanasiev, Mihai Sanduleac, Adrian Badea
- **ID007** - *TAGGS OF PRICE IN MANAGING DEFICITS* - Arthur Dambischi

FOSSIL FUELS POWER AND HEAT GENERATION

FRIDAY 20 OCTOBER 2017 (11:00 – 12:30)

Location: Conference Centre - Hall 2.3

SESSION CHAIRS: DIANE THOMAS, CRISTIAN DINCA

- **ID043** - *POST-COMBUSTION CO₂ CAPTURE PROCESS APPLIED TO FLUE GASES WITH HIGH CO₂ CONTENTS: MICRO-PILOT EXPERIMENTS AND SIMULATIONS* - Sinda Laribi, Lionel Dubois, Guy De Weireld, Diane Thomas
- **ID022** - *CO₂ ADSORPTION PROCESS SIMULATION IN ASPEN HYSYS* - Slavu Nela, Cristian Dinca, Adrian Badea
- **ID029** - *COMPACT SOLUTIONS FOR HEAT RECOVERY FROM COGENERATION MODULES ENGINES - CASE STUDY FOR A 500 KW(E) UNIT* - Antonescu Nicolae, Stanescu Dan-Paul
- **ID051** - *INCREASING ENERGY EFFICIENCY OF A COMBINED HEAD AND POWER PLANT USING THE HEAT STORAGE* - Petrică Rădan, Victor-Eduard Cenușă, Florin Alexe, Elena Arion, Andrei-Adrian Adam
- **ID098** - *INCREASING THE OPERATIONAL EFFICIENCY OF A HEAT ENGINE PLANT THROUGH IMPLEMENTATION OF TRIGENERATION* - Mihaela Norisor, Andreea Badicu, Eduard Minciuc, Horia Necula
- **ID114** - *PERFORMANCE IMPROVEMENT OF A ROMANIAN COGENERATION PLANT THROUGH OPTIMAL COVERAGE OF HEAT LOAD* - Diana Tutica, Stefan-Dominic Voronca, Eduard Minciuc, Roxana Patrascu, George Darie
- **ID113** - *SPECIAL SITUATIONS REGARDING THE TRANSITION OF DISTRICT HEATING SYSTEMS. TECHNICAL AND ECONOMIC ANALYSIS REGARDING THE USE OF DIFFERENT TECHNOLOGIES IN TRANSITION SOURCES* - Serban Iftime, Marcel Istrate

SYMPOSIUM "WIND ENGINEERING: ACTUALITY AND PERSPECTIVES"

**Co-organized with Romanian Wind Engineering
Association**

FRIDAY 20 OCTOBER 2017 (11:00 – 12:30)

Location: Conference Centre - Hall 3.2

MODERATORS: MIHAI IANCOVICI (ARIV PRESIDENT),
ANDREI-MUGUR GEORGESCU (ARIV VICE-PRESIDENT)

- *THE ROMANIAN ASSOCIATION FOR WIND ENGINEERING - ARIV* (www.ariv.ro) -
Mihai Iancovici
- *RECENT WIND-RELATED DAMAGE IN ROMANIA* - Ileana Calotescu
- *DATABASE-ASSISTED APPROACHES IN THE ANALYSIS AND DESIGN OF
BUILDINGS FOR WIND LOADS* - Mihai Iancovici
- *COMPUTATIONAL WIND ENGINEERING* - Razvan Mahu, Cristina Oprea
- *BOUNDARY LAYER WIND TUNNEL AT THE TECHNICAL UNIVERSITY OF CIVIL
ENGINEERING BUCHAREST* - Alexandru Cezar Vladut
- *WIND ENERGY CONVERSION STUDIES AT THE AERODYNAMICS AND WIND
ENGINEERING LABORATORY* - Costin Ioan Cosoiu
- *INVITATION TO JOIN ARIV* - ARIV Board