

5. EUROPEAN CONFERENCE on RENEWABLE ENERGY SYSTEMS (ECRES)

27-30 August 2017 * SARAJEVO/ Bosnia and Herzegovina * Proceedings ISBN: 978-605-86911-5-5

PROGRAMME

27 August 2017 Sunday

10:30-16:00 On-desk Registration

28 August 2017 Monday

Opening Session Hall A

09:00 - 09:10 "Welcome talk", Prof. Dr. Erol Kurt (Head of the organizing committee)

09:10 - 09:20 Opening Talk from the Rectorship of Sarajevo University

Invited Talk Session 1 Hall A

Chairman: Prof. Dr. Erol Kurt

09:20-10:05	KEYNOTE "Future Clean Energy Systems"	Prof. Dr. Jinyue Yan
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10:00 - 22:30 CULTURAL TRIP TO CITY – MOSTAR
CONFERENCE PHOTO-1

29 August 2017 Tuesday

Invited Talk Session 2 Hall A

Chairman: Prof. Dr. İbrahim Sefa

09:00-09:45	KEYNOTE "The role of computational continuum mechanics in development and optimization of renewable energy technologies"	Prof. Dr. Milovan Peric
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Parallel Session 1 Hall A "Solar Energy Optimization"

Chairman: Prof. Dr. Selim Acar

09:45-10:00	ID28 A NOVEL VARIABLE STEP SIZE MPPT ALGORITHM UNDER FAST VARYING WEATHER CONDITIONS FOR PHOTOVOLTAIC SYSTEMS BASED ARDUINO MICROCONTROLLER	K. Dib, R. Chenni, E. Kurt
10:00-10:15	ID96 FIRST-PRINCIPLES STUDY OF STRUCTURAL, ELASTIC, ELECTRONIC AND THERMOELECTRIC PROPERTIES FOR BaSiN ₂	Y. Öztekin Çiftçi, I. Öner Alp
10:15-10:30	ID100 HIGH-PRESSURE EFFECT ON ZnSiN ₂ : A FIRST-PRINCIPLES STUDY	I. Öner Alp, Y. Özçelik Çiftçi
10:30-10:45	ID153 OPTICAL PROPERTIES OF ZnO MICRO RODS DEPOSITED ON SILICON SUBSTRATES	H. K. Juwhari, B. Lahlouh, S. J. Ikhmayies

Parallel Session 1 Hall B "Power components in energy"

Chairman: Prof. Dr. Rachid Chenni		
09:45-10:00	ID74 SIMULATION OF INDUCTION SYSTEM USED FOR HYDROGEN TUBE HEATING	S. Nacar, S. Öncü
10:00-10:15	ID73 SIMULATION OF FUZZY LOGIC CONTROLLED ELECTROLYSIS SYSTEM WITH RESONANT CONVERTER	S. Nacar, S. Öncü
10:15-10:30	ID83 POWER ELECTRONIC CONVERTERS WITHOUT ELECTROLYTIC CAPACITORS	A.V. Bossche, S. Haddad, M. Mordjaoui
10:30-10:45	ID39 A COMPARATIVE ANALYSIS OF MPPT METHODS USING REDUCED RULE COMPRESSED FUZZY LOGIC CONTROL AND INCREMENTAL CONDUCTANCE METHOD	E. Kandemir, S. Borekci, N.S. Cetin
Parallel Session 1 Hall C “Nuclear Fusion and Plasmas”		
Chairman: Assoc. Prof. Dr. Necmi Altın		
09:45-10:00	ID19 IMPACT OF BLANKET CONFIGURATION ON THE DESIGN OF A FUSION-DRIVEN TRANSMUTATION REACTOR	B. G. Hong
10:00-10:15	ID149 COMPARISON OF ENERGY DISTRIBUTIONS AND RADIATION EMISSIONS IN AN INERTIAL ELECTROSTATIC CONFINEMENT DEVICE FOR VARIOUS MAGNETIC FIELDS	E.Kurt, B. Dursun
10:15-10:30	ID128 INVESTIGATION OF THE IR SENSITIVITY OF ZnSe PHOTODETECTOR WITH LARGE DIAMETER IN AN IR IMAGE CONVERTER	H.H. Kurt
10:30-10:45	ID 127 EXPLORATION OF THE PHYSICAL PROCESSES AT ATMOSPHERIC PRESSURE GAS DISCHARGE WITH SEMICONDUCTOR ELECTRODE	H. H. Kurt
10:45-11:15 COFFEE BREAK		
Parallel Session 2 Hall A “ Energy planning and regulations ”		
Chairman: Prof. Dr. Nicu Bizon		
11:15-11:30	ID155 APPROACH AND EFFECTS TO QUALITY CODE NQA-1 ON NUCLEAR FACILITIES & R&D MANAGEMENT ORGANIZATIONS	K. Kim, K. Jang, J. Ha, J. Jeon, H. Kim
11:30-11:45	ID140 INTERACTION BETWEEN RIVER AND WIND	E. Ekmekci, M. A. Karadasli, S. Kapkin
11:45-12:00	ID55 GENERAL SITUATION OF WIND ENERGY SOURCE IN TURKEY AND WIND TURBINE TECHNOLOGIES	Y.A. Kaplan, H. Bildircin
12:00-12:15	ID56 NEW EMPIRICAL MODELS ON THE DETERMINATION OF SOLAR MAP AND A COMPARISON STUDY	Y.A. Kaplan, Ş. Agalar
12:15-12:30	ID22 FORECASTING ELECTRICITY CONSUMPTION IN TURKEY WITH BAYESIAN POLYNOMIAL REGRESSION ANALYSIS	M. Erdem , S. Bulkan, D. Akay, F. E. Boran
Parallel Session 2 Hall B “ Electrical Machines in Energy ”		
Chairman: Prof. Dr. Eleonora Guseinoviene		
11:15-11:30	ID16 INTEGRATED SENSORLESS BLDC MOTOR CONTROL USING BEMF ON FPGAS	V. Yannick, V. B. Ewald, T. Abdellah
11:30-11:45	ID45 EMBEDDED ENERGY OPTIMIZATION IN INDIRECT VECTOR CONTROL FOR INDUCTION MOTORS FOR ELECTRIC TRACTION	M. Fateh, P. Syam, R. Abdellatif, B. Hocine
11:45-12:00	ID51 TUNING OF ANTI-WINDUP PID CONTROLLER FOR A DC MOTOR DRIVE SYSTEM USING STOCHASTIC FRACTAL SEARCH ALGORITHM	E. Çelik, H. Gör, N. Özturk
12:00-12:15	ID98 AUTOMATIC AND ONLINE DETECTION OF ROTOR FAULT STATE	A. Ouanas, A. Medoued,

		M. Mordjaoui, S. Haddad
12:15-12:30	ID161 LOSS BEHAVIOUR OF THE DRY-TYPE POWER TRANSFORMER ACCORDING TO THE LOAD TYPE	S. Balcı, F. Battal, I. Sefa, M.B. Bayram, Ş. Özdemir, N. Altın
Special Session A1 Hall C “Advances in Wind and Photovoltaic Energy Systems”		
Chairman: Prof Dr. Jose Manuel Lopez Guede		
11:15-11:30	ID75 PRELIMINARY MODELING OF FLC DEALING WITH MPPT PROBLEM	J. M. Lopez-Guede, J. Ramos-Hernanz, N. Altın, S. Ozdemir, E. Kurt, G. Azkune
11:30-11:45	ID76 BIOMASS ESTIMATION IN ARRATIA-NERVIÓN REGION (BASQUE COUNTRY) USING LIDAR DATA	L. T. Tojal, J. M. S. Espeso, A. B. Izagirre
11:45-12:00	ID77 SOLAR PANEL SUITABILITY MAP AND ASSESSMENT OF THE LOCATION OF INSTALLED PANELS IN ROOFS IN THE MUNICIPALITY OF VITORIA-GASTEIZ (ALAVA, SPAIN)	A. Bastarrika, A. Ustarroz, O. Akizu, K. Artano, J. M. Lopez-Guede, P. Martinez-Blanco, A. Mesanza, L. Torre
12:00-12:15	ID78 ANALYSIS OF THE COMBINED RESPONSE OF FLC AND BOOST CONVERTER FOR MPPT IN PV SYSTEMS	J. Ramos-Hernanz, J. M. Lopez-Guede, N. Altın, E. Zulueta, U. Fernández
12:15-12:30	ID79 NEURAL NETWORK WIND TURBINE MODEL BASED YAW CONTROL DESIGN AND OPTIMIZATION	E. Zulueta, I. Serna, U. Fernandez, J. M. Lopez-Guede, J. A. Ramos Hernanz
12:45-14:00 CONFERENCE PHOTO- 2 and LUNCH		
Parallel Session 3 Hall A “Power Systems Design and Implementation ”		
Chairman: Prof. Dr. Rachid Chenni		
14:00-14:15	ID150 A QUADRATIC BOOST CONVERTER WITH TYPE-2 FUZZY LOGIC CONTROLLER BASED MAXIMUM POWER POINT TRACKING ALGORITHM FOR PV SYSTEMS	N. Altın
14:15-14:30	ID151 AN INVESTIGATION ON COUPLED INDUCTORS OF QUADRATIC BOOST CONVERTERS	S. Balcı, I. Sefa, S. Ozdemir, N. Altın
14:30-14:45	ID152 ANALYSIS OF A NOVEL FOUR LEVEL FLYING CAPACITOR H-BRIDGE CONVERTER	F. Gülpınar, F. Sarı, Y. Uzun
14:45-15:00	ID148 SERIES-PARALLEL RESONANT CONVERTER WITH CURRENT LIMITING ABILITY FOR RENEWABLE ENERGY SOURCE	N. Altın, S. Ozdemir, S. Balcı, I. Sefa
15:00:15:15	ID121 LITHIUM BATTERY TRANSIENT RESPONSE AS A DIAGNOSTIC TOOL	E. Denisov, R. Nigmatullin, G. Timergalina, Y. Evdokimov
15:15-15:30	ID71 AIR FLOW REAL-TIME OPTIMIZATION STRATEGY FOR FUEL CELL HYBRID POWER SOURCES WITH FUEL FLOW BASED ON LOAD-FOLLOWING	N. Bizon, E. Kurt, G. İana
15:30-15:45	ID157 CONTROL OF THE BATTERY ENERGY STORAGE SYSTEM TO MITIGATE THE WIND POWER FLUCTUATIONS	N. Altın, S.E. Eyimaya

Parallel Session 3 Hall B “Energy Optimization “		
Chairman: Prof. Dr. Josean Ramoz Hernanz		
14:00-14:15	ID68 MATHEMATICAL MODELLING OF SLAG FORMATION IN AN ENTRAINED-FLOW GASIFIER	G. Zageris, V. Geza, A. Jakovics
14:15-14:30	ID41 A RENEWABLE BASED HYBRID SYSTEM FOR A MOUNTAIN HOUSE IN SAKARYA, TURKEY	A. Ugurlu, C. Gokcol
14:30-14:45	ID63 OPTIMAL REDUCTION OF PEAK ELECTRICITY DEMAND WITH CONTROL OF AIR CONDITIONING	A. Rebai, S. Haddad, M. Mordjaoui, R. Klaiiaia
14:45-15:00	ID84 OBTAINING OPTIMAL SPINNING RESERVE AND UNIT COMMITMENT CONSIDERING THE SOCIO-ECONOMIC PARAMETERS	M. R. Tür, S. Ay, M. Wadi, A. Shobole
15:00-15:15	ID103 A LOW COST MODELLING OF POWER MANAGEMENT IN SMART ROOM	A. Ali, E. Erçelebi
15:15-15:30	ID117 A SPATIAL PERSPECTIVE TO OFFSHORE WIND ENERGY DEVELOPMENT. LESSONS LEARNED FROM THE GREEK EXPERIENCE	D. Banousis, K. Gkarakis
15:30-15:45	ID119 AVOIDABLE AND UNAVOIDABLE EXERGY ANALYSIS FOR A CASCADE GEOTHERMAL PLANT PRODUCING ELECTRICITY, COOLING AND USEFUL HEAT	V. M. Ambriz-Díaz, C. Rubio-Maya, J. J. Pacheco-Ibarra, H. C. G. Sánchez, J. R. Arista
Parallel Session 3 Hall C “Thermal issues and CFD”		
Chairman: Prof. Dr. Muris Torlak		
14:00-14:15	ID134 EXPERIMENTAL INVESTIGATION OF CO-FIRING OF COAL WITH WOODY BIOMASS WITH AIR STAGING AND REBURNING	N. Hodžić, A. Kazagić, S. Metović
14:15-14:30	ID135 BIOMASS CO-FIRING FOR INCREASE RES AND ACHIEVING CO2 CUT TARGETS FOR A POWER UTILITY IN SOUTH-EAST EUROPE – EPBIH CASE STUDY	A. Kazagić, N. Hodžić, S. Metović
14:30-14:45	ID138 SUSTAINABILITY PARAMETERS OF THE SARAJEVO DISTRICT HEATING SYSTEM	H. Lulic, A. Đugum
14:45-15:00	ID159 IMPLEMENTATION OF A STIRLING ENGINE AND GENERATOR COMBINATION FOR DIRECT ELECTRICITY GENERATION	S. A. A. Shufat, E. Kurt, C. Çınar , F. Aksoy, A. Hançerlioğulları
15:00-15:15	ID70 DETERMINATION OF SLICED PINEAPPLE DRYING CHARACTERISTICS IN A CLOSED LOOP HEAT PUMP ASISTED DRYING SYSTEM	C. Tunçkal, S. Coşkun, İ. Doymaz, E. Ergun
15:15-15:30	ID147 ORIENTATION OF FINS IN A THERMAL-ENERGY STORAGE UNIT WITH PHASE-CHANGE MATERIAL	M. Torlak, N. Delalić
15:30-15:45	ID124 A STIRLING ENGINE MODELING STUDY FOR SOLAR ENERGY OF PARABOLIC DISH SYSTEMS	S. A. A. Shufat, E. Kurt, K. M. El Hadad, A. Hancerlioğulları
15:45-16:15 COFFEE BREAK		
Special Session B Hall A “Material Exploration and Characterization”		
Chairman: Prof. Dr. Shadia Ikhmayies		
16:15-16:30	ID32 RECOVERY OF CALCIUM METABORATE AND RE-SYNTHESIS OF CALCIUM BOROHYDRIDE BY THE MECHANOCHEMICAL REACTION	A. F. Karabulut, M. Gürü
16:30-16:45	ID31 CATALYTIC PERFORMANCE OF ACTIVATED CARBON SUPPORTED COBALT (II) FLUORIDE IN DEHYDROGENATION OF METAL	A. F. Karabulut, M. Gürü

	BOROHYDRIDES	
16:45-17:00	ID154 STRUCTURAL, OPTICAL AND VIBRATIONAL PROPERTIES OF ZNO MICROSTRUCTURES DEPOSITED ON SILICON SUBSTRATES	B. Lahlouh, S. J. Ikhmayies, H. K. Juwhari
17:00-17:15	ID49 PRODUCTION OF THREE DIMENSIONAL ZnO MULTILAYERED MICRO STRUCTURES FROM SELF ASSEMBLED ZnO MICRO DISCS	S. J. Ikhmayies
17:15-17:30	ID61 SYNTHESIS OF FLOWER-LIKE ZnO MICRO/NANO STRUCTURES BY THE SPRAY PYROLYSIS TECHNIQUE	S. J. Ikhmayies
17:30-17:45	ID17 OPTICAL AND ELECTRICAL AND CRYSTAL PROPERTIES OF TiO ₂ THIN FILMS GROWN BY ATOMIC LAYER DEPOSITION ON SILICON AND GLASS SUBSTRATES	I.Kupa, Y. Unal, S.S. Cetin, K. Topalli, A.K. Okyay, H. Ates
Parallel Session 4 Hall B “Energy harvesters”		
Chairman: Prof. Dr. Jesus Riquelme		
16:15-16:30	ID114 REDUCTION OF DEPOLARIZATION OF PIEZOELECTRIC MATERIAL BY CONTROLLING PARTICLE SIZE DISTRIBUTION	J. P. Jhun, Y. Song, G. J. Song, S. B. Woo, D. H. Jeon, T. H. Sung
16:30-16:45	ID115 CHARACTERISTICS OF ROAD TRAFFIC AS A POSSIBLE SOURCE OF A NOVEL ENERGY SOLUTION	Y. Song, J. Y. Choi, J. Kim, C. H. Yang, J. P. Jhun, T. H. Lee, T. H. Sung
16:45-17:00	ID62 A NEURAL NETWORK DESIGN AND PREDICTION SCHEME UPON THE BEHAVIOR OF A PIEZOELECTRIC HARVESTER	E. Çelik, Y. Uzun, E. Kurt, N. Öztürk
17:00-17:15	ID18 ELECTRONIC AND OPTICAL PROPERTIES OF ATOMIC LAYER DEPOSITED ZnO AND TiO ₂	H. Ates, E. Battal, S. Bolat, F. Oruc, A. K. Okyay
17:15-17:30	ID142 DESIGN AND IMPLEMENTATION OF A NEW LINEAR ELECTROMAGNETIC HARVESTER	E. Kurt, S. Akbaba, M. M. Kale, N. Bizon
17:30-17:45	ID133 DESIGN UNDER UNCERTAINTY OF PIEZOELECTRIC ROAD ENERGY HARVESTER CONSIDERING MULTI-PHYSICS	J. Kim, T. Kim, T. H. Lee, Y. Song, T. H. Sung
Special Session D Hall C “Modeling, Control and Optimization of the Hybrid Systems”		
Chairman: Prof. Dr. Nicu Bizon		
16:15-16:30	ID65 ON THE ENERGY EFFICIENCY OF STANDALONE FUEL CELL/RENEWABLE HYBRID POWER SOURCE WITH CONTROLLED FUELLING FLOWS	C. I. Hoarcă, N. Bizon, L. Pătularu
16:30-16:45	ID123 DIAGNOSIS OF INDUCTION MACHINE DRIVES	R. Beloiu
16:45-17:00	ID125 DESIGN OPTIMIZATION STUDY OF A TORUS TYPE AXIAL FLUX MACHINE	S. Arslan, E. Kurt
17:00-17:15	ID108 EXTREMUM SEEKING CONTROL USED FOR OPTIMAL OPERATION OF WIND TURBINE UNDER TURBULENT WIND GUSTS	N. Bizon, E. Kurt, M. Culcer, M. Iliescu, R. Beloiu
17:15-17:30	ID109 FUEL FLOW REAL-TIME OPTIMIZATION STRATEGY FOR FUEL CELL HYBRID POWER SOURCES WITH AIR FLOW BASED ON LOAD-FOLLOWING	N. Bizon, P. Thounthong, M. Oproescu
17:30-17:45	ID122 THE PECULIARITIES OF RELAXATION PROCESSES IN PEM FUEL CELL	E. Denisov, R. Nigmatullin, T. Nikishin, Y. Evdokimov, S. Martemianov, A. Thomas

20:00 ECRES GALA DINNER in ILIDZA and CONFERENCE PHOTO-3

30 August 2017 Wednesday

Special Session A2 Hall A “Advances in Wind and Photovoltaic Energy Systems”

Chairman: Prof Dr. Jose Manuel Lopez Guede

09:00-09:15	ID89 ASCERTAINING EMERGING GERMAN BOTTOM-UP ENERGY TRANSITIONS THROUGH CASE STUDY ANALYSIS	O. Akizu, G. Bueno, I. Barcena, J. M. Lopez-Guede
09:15-09:30	ID81 TESTING THE USE OF LOW ENVIRONMENTAL IMPACT MATERIALS FOR RENEWABLE ENERGY INSTALLATIONS	J. Uriarte, O. Akizu, A. Boyano, A. González-González, J. M. Lopez-Guede
09:30-09:45	ID80 WIND SPEED TIME SERIES GENERATED BY AN AUTOREGRESSIVE METHOD PROPOSED FOR WIND TURBINE PITCH CONTROLLER SIMULATION PURPOSES	A. González-González, U. Martinez-de-Estarrona, A. J. Cortadi, J. M. Lopez-Guede
09:45-10:00	ID82 ONGOING MODELING OF A HARVESTER	J. M. Lopez-Guede, F. Cottone, M. Mattarelli, P. Basset, E. Zulueta, U. Fernandez-Gamiz, A. Boyano, I. Ansoategi
10:00-10:15	ID90 WIND TURBINE CONTROL IMPROVEMENTS BY PASSIVE FLOW CONTROL DEVICES	U. Fernandez-Gamiz, E. Zulueta, A. Boyano, J. A. Ramos, J. M. Lopez-Guede
10:15-10:30	ID91 COMPUTATIONAL MODEL OF AN AXIAL FAN	U. Fernandez-Gamiz, M. Demirci, E. Zulueta, J. A. Ramos, J. M. Lopez-Guede, E. Kurt
10:30-10:45	ID92 COMPUTATIONAL CHARACTERIZATION OF UNDERWATER PIEZOELECTRIC ENERGY HARVESTER	U. Fernandez-Gamiz, F. Cottone, J. A. Ramos, E. Zulueta, J. M. Lopez-Guede
10:45-11:00	ID88 THE ROLE OF INTERNATIONAL ENERGY DEPENDENCY ON NATIONAL WELFARE	O. Akizu, E. Kurt, G. Bueno, J. M. Lopez-Guede, I. Arto

Parallel Session 5 Hall B “Mechanical issues in energy systems ”

Chairman: Assist. Prof. Dr. Sadjit Metovic

09:00-09:15	ID69 ANALYSIS OF A HEAT PUMP ASSISTED SOLAR WATER HEATING SYSTEM USING TRNSYS PROGRAM	S. Coşkun, G. Kandirmiş, C. Tunçkal
09:15-09:30	ID66 MPPT FUZZY-LOGIC PHOTO VOLTAIC SOURCED VOLTAGE BASED CASCADE SLIDING MODE CONTROLLED DRIVE FOR WATER PUMPING SYSTEM	Z. Ines, M. Fateh, H. Abdeslam , R. Abdellatif, N. Khalil
09:30-09:45	ID141 OPTIMIZATION OF HYDROGEN DRY CELL FOR: ENERGY, PRODUCTIVITY, AND EFFICIENCY	G. N. Reddy, B. Acharya, S. Srestha, R. Guduru

09:45-10:00	ID 54 PARAMETRIC OPTIMIZATION OF A FRANCIS TURBINE RUNNER FOR A REHABILITATION PROJECT IN TURKEY	A. Elikalfa, K. Celebioglu, E. Acar, S. Aradag
10:00-10:15	ID106 DESIGN OF AN AIR-LIFT SYSTEM FOR THE EXTRACTION OF GEOTHERMAL ENERGY FROM A MEDIUM ENTHALPY RESERVOIR IN MEXICO	J. A. Rangel, J. J. Pacheco, C. R. Maya, L. A. Garay, J. M. M. Flores
10:15:10:30	ID6 ANALYSIS OF SCENARIOS FOR ACHIEVING OPTIMAL ENERGY EFFICIENCY OF PUBLIC BUILDINGS	E. Džaferović, N. Širbegović, A. Hasecic
10:30-10:45	ID 21 MEASUREMENT OF INDOOR AIR QUALITY AT HIGHER EDUCATIONAL INSTITUTIONS	N. S. Zečević, E. Džaferović, A. Husika
10:45-11:00	ID93 IMPROVING THE EFFICIENCY OF A NUCLEAR POWER PLANT USING A THERMOELECTRIC COGENERATION SYSTEM	R. Terzi, E. Kurt
Parallel Session 5 Hall C "Energy perspectives" Chairman: Prof. Dr. Intaek Kim		
09:00-09:15	ID29 CURRENT SITUATION AND NEAR FUTURE TARGETS OF TURKEY IN RENEWABLE ENERGY	A. Ugurlu, C. Gokcol
09:15-09:30	ID156 A SHORT REVIEW ON THE USE OF RENEWABLE ENERGIES AND MODEL PREDICTIVE CONTROL IN BUILDINGS CLIMATIZATION	J. M. Santos-Herrero, J. M. Lopez-Guede, I. Flores
09:30-09:45	ID139 WAVE POWER PREDICTION	H. M. Deberneh, I. Kim
09:45-10:00	ID95 A SOFTWARE-IN-THE-LOOP SIMULATION SETUP FOR HYDROELECTRIC POWER PLANTS	D. Gezer, Y. Tascioglu, K. Celebioglu
10:00-10:15	ID111 DISTURBANCE/UNCERTAINTY ESTIMATOR BASED ROBUST CONTROL OF DC PHOTOVOLTAIC SYSTEMS	B. Kurkcu, O. Deveci, C. Kasnakoglu
10:15:10:30	ID116 OPTIMAL DESIGN OF PZT-BASED PIEZOELECTRIC MODULE FOR AVAILABILITY IN OFFSHORE ENVIRONMENT	S. Cho, S. Park, K. Kang, S. K. Hong, T. H. Lee
10:30-10:45	ID132 THE EFFECT OF TIN OXIDE ADDITION TO CARBON AS SUPPORTS FOR PT-BASED ELECTROCATALYSTS FOR HIGH TEMPERATURE FUEL CELLS	A. Aytaç, W. Lehnert
10:45-11:00	ID146 A SMART HOME APPLICATION BASED ON WIRELESS SENSOR NETWORKS	G. Göçmen, E. Irmak, A. Köse
11:00-11:30 COFFEE BREAK		
Hall A - 11:30 – BEST PAPER AWARDS Closing talk and call to next conference by Prof. Dr. Erol KURT and Prof. Dr. İbrahim Sefa		

POSTER SESSIONS (*)

(29-30 August 2017) (ALL POSTER PRESENTERS MUST BE BESIDE ITS POSTER)

P1	ID158 PRELIMINARY ELECTROMAGNETIC DESIGN OF A NEW RADIAL FLUX PERMANENT MAGNET MOTOR	I. Bouloukza, M. Mordjaoui, E. Kurt, G. Bal, C. Ökmen
P2	ID7 EFFICIENT DUAL-AXIS SUN TRACKING SYSTEM USING MICROCONTROLLER ATMEGA 328 FOR SOLAR ENERGY APPLICATIONS	H. S. Akbar
P3	ID144 NEW PROCESS OF COLD FUSION	K. van Thule
P4	ID101 AB-INITIO CALCULATIONS ON THE THERMOELECTRIC PROPERTIES OF SrSiN ₂	I. O. Alp, Y. O. Ciftci
P5	ID102 DFT DESCRIPTION ON OPTICAL AND ELECTRONIC BEHAVIOR OF MgSiN ₂	I. O. Alp, Y. O. Ciftci
P6	ID87 AN AB-INITIO STUDY OF STRUCTURAL, ELASTIC, ELECTRONIC AND OPTIC PROPERTIES FOR CHALCOPYRITE SEMICONDUCTOR CaSiN ₂ COMPOUND	Y. O. Ciftci, I. O. Alp, Y. Mogulkoc
P7	ID 97 FIRST –PRINCIPLES STUDY ON SEMICONDUCTOR BeSiN ₂ WITH CHALCOPYRITE STRUCTURE UNDER PRESSURE	Y. O. Ciftci, I. O. Alp
P8	ID131 CHARACTERIZATION AND MEASUREMENT TECHNOLOGY FOR SEMICONDUCTOR MATERIALS	H. H. Kurt
P9	ID130 ELECTRONIC AND OPTICAL STUDIES ON THE II-VI GROUP CdS SEMICONDUCTOR MATERIALS IN THE MICRODISCHARGE CELL	H. H. Kurt
P10	ID94 DESIGN AND MODELING OF A TRIPLE WIND ENERGY HARVESTER WITH A VARIABLE CAPACITANCE	D. Özhan, F. Ünal, E. Kurt, R. Taştaltın
P11	ID25 NITRIC OXIDE SENSING PROPERTIES OF Ni DOPED ZnO THIN FILMS FOR LOW GAS CONCENTRATIONS	H. Sürel, B. Soltabayev, T. Çorlu, I. Karaduman, M. A. Yıldırım, A. Ateş, S. Acar
P12	ID24 SELECTIVE Zn _{0.95} Sn _{0.05} O NANOSTRUCTURE THIN FILM FOR EXHALED BREATH SENSING	I. Karaduman, T. Çorlu, M. A. Yıldırım, A. Ateş, S. Acar
P13	ID107 PROBABILISTIC ANALYSIS TO SIZE RENEWABLE ENERGY PLANTS	R. Cano, Á. L. Trigo, E. Romero, J. Riquelme
P14	ID118 IMPACT OF THE NEW RENEWABLE SUPPORT SCHEME IN THE IBERIAN/SPANISH ELECTRICITY MARKET	J. M. R. Fernandez, M. B. Payan, J. M. R. Santos, A. L. T. García
P15	ID53 NEW COMBINED CONTROL OF QUASI Z SOURCE INVERTER IN PV PUMPING SYSTEM WITH BATTERIES ENERGY STORAGE	E. Boukebbous, D. Kerdoun, R. Chenni, N. Benbaha, A. Hachemi
P16	ID112 LIQUID DESICCANT HEAT PUMP SYSTEM UTILIZING SOLAR PHOTO VOLTAIC THERMAL MODULE	S. Ma, H. Kang, J. Lee, M. Park, C. Kim
P17	ID129 ENERGY STORAGE IN THE PLASMA ELECTRONIC DEVICES WITH POROUS ZEOLITE CATHODES	U. Bunyatova, H.H. Kurt, I.C. Koçum, B. Salamov
P18	ID143 EXPLORATION OF A PERMANENT MAGNET SYNCHRONOUS GENERATOR WITH COMPENSATED REACTANCE WINDINGS IN PARALLEL ROD CONFIGURATION	O. Lyan, E. Guseinoviene, A. Pašilis, A. Senulis, A. Knolis, E. Kurt
P19	ID104 DESIGN AND SIMULATION OF A NEW OSCILLATING PULSE CURRENT SYNCHRONOUS DRIVE WITH POWER ANALYSIS	V. Jankūnas, E. Guseinoviene, A. Senulis, B. Boguzaitė

(*) 1. Since the Scientific Committee assigned for the poster evaluations will have questions and suggestions, please stand aside your poster at the poster session times.

2. All posters are exhibited on **29 - 30 August 2017 days between 15:00 – 17:00 at the foyer in front of Halls**. The international scientific committee will ask questions about your posters and evaluate them.

3. The preferred dimension for each poster should be 100 cm height and 60 cm width as also stated in web-site of the conference.

4. Please do not forget to get back your poster(s) on **30 August after 17:00**.

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THANKS FOR YOUR CONTRIBUTION
See you in next event

