



# PROGRAMME BOOK

8. EUROPEAN CONFERENCE on RENEWABLE ENERGY SYSTEMS

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24 August 2020 Monday

Hall A

Opening Session & Keynote Session 1

08:30 – 09:30	Talk of Chairman, Prof. Dr. E. Kurt (Head of the organizing committee)
	<b>Assoc. Prof. Dr. Nur Islami</b> GEOTHERMAL INVESTIGATION FOR THE SOURCE OF RENEWABLE ENERGY
	<b>Assoc. Prof. Dr. Ossama Abdelkhalik</b> RECENT ADVANCES IN WAVE ENERGY CONVERSION

Hall A Parallel Session 1A

Energy-Environment and Policy-I

Chairman: Aybaba Hançerliogulları

09:30-11.30	ID81- RENEWABLE ENERGY UTILIZATION AND POLICIES OF TURKEY	<b>Ünalı Gülizar Gizem</b> , Kaplan Yusuf Alper
	ID144- NUMERICAL APPROXIMATION OF THE HYDROLOGICAL TIME OF CONCENTRATION	<b>Barrón-Fernández, J.R.</b> , Calvo-Jurado C.
	ID145- INFLUENCE OF TRAFFIC AND ROAD SURFACE PROPERTIES ON ELASTIC BEHAVIOR OF LAYERED PAVEMENTS	<b>Roldán-Oliden P.</b> , Calvo-Jurado C.
	ID219-METAMODELING THE INFLUENCE OF FORM AND SHADING ON THE HEATING AND COOLING LOADS OF A RESIDENTIAL ZONE IN THE MEDITERRANEAN	Aristotelis Vartholomaios, <b>Angeliki Chatzidimitriou</b> , Konstantinos Ioannidis
	ID186- PRELIMINARY ASSESSMENT OF IMPACT OF TYPICAL FAULTS ON ENERGY PERFORMANCE OF AIR-HANDLING UNITS BY MEANS OF A DYNAMIC SIMULATION MODEL: A CASE STUDY	Antonio Rosato, <b>Francesco Guarino</b> , Vincenzo Filomena, Sergio Sibilio, Luigi Maffei
	ID285- KINATION- STUDENTS' EXPLORATION OF A FUTURE RENEWABLE ENERGY SOURCE	Penka V. Georgieva, Milen Baltov, Maria Daskalova, Nikolai Tsonev, Kalina Hristova, <b>Georgi Karavasilev</b>
	ID212- NAVIER–STOKES-MAXWELL EQUATIONS FOR MHD EFFECTS WITH TURBULENT FLOW IN ADVANCED ARIES-RS FUSION TECHNOLOGY	Aybaba Hançerliogulları, Erol Kurt, Abbas Ghasemizad, <b>Rezvan Rezaeizadeh</b> , Yosef G. Ali Madee, Ettahir El Hadi Ali Omar Swese
	ID216- ECO-TOXIC METAL POLLUTION IN SURFACE WATER AND ITS SUITABILITY FOR IRRIGATION AROUND A LIGNITE-FIRED THERMAL POWER PLANT IN TURKEY	Şeref Turhan, Aybaba Hançerliogulları, Aslı Kurnaz, Cellattin Duran, <b>Onur Metin</b>

Hall B Parallel Session 1B

Mechanical Engineering-I

Chairman: Sercan Acarer

09:30-11.30	ID82- INVESTIGATION OF A FRANCIS TURBINE PERFORMANCE USING CFD AND SITE EFFICIENCY MEASUREMENTS	<b>Yagmur Tugba Unal</b> , Fevzi Buyuksolak, Burak Altintas, Kutay Celebioglu, Ece Ayli, Oguzhan Ulucak, Selin Aradag
	ID220- THE EFFECTS OF BOUNDARY LAYER TRANSITION ON THE OVERALL EFFICIENCIES OF WIND TURBINES	<b>Sercan Acarer</b>
	ID222- NUMERICAL INVESTIGATION OF HIGH TURNING BLADES WITH BOUNDARY LAYER BLOWING TOWARDS WIND TURBINES	Hasan Çelik, <b>Sercan Acarer</b>
	ID20- NUMERICAL INVESTIGATION OF HEAT TRANSFER AND PRESSURE DROP ON FIN-TUBE HEAT EXCHANGERS	<b>Aslan Erman</b> , Yıldız Omer, Kartun Hagop, Gungor Gokhan

	ID93- UPGRADING OF PERFORMANCE OF AIR TO AIR HEAT PIPE HEAT EXCHANGER BY USING CUO+ZNO HYBRID NANO FLUID	<b>Kerim Martin</b> , İpek Aytaç, Çağdaş Filiz, Adnan Sözen, Ümit İskender
	ID94-EXPERIMENTAL INVESTIGATION OF THE USE OF MGO+ZNO MIXTURE IN THERMOSIPHON TYPE HEAT PIPES WITHIN THE SCOPE OF AIR-TO-AIR HEAT EXCHANGER DESIGN	<b>Kerim Martin</b> , İpek Aytaç, Çağdaş Filiz, Adnan Sözen, Cuma Kılınç
	ID256- ASSESSING S-CO <sub>2</sub> MIXTURES FOR POTENTIALLY IMPROVING SUPERCRITICAL POWER PLANTS PERFORMANCE	<b>Robert Valencia-Chapi</b> , Luis Coco-Enríquez, Javier Muñoz-Antón
	ID107- RESEARCH OF CHARACTERISTICS OF THE FLOW PART OF AN AEROTHERMOPRESSOR FOR GAS TURBINE INTERCOOLING AIR	<b>Dmytro Konovalov</b> , Mykola Radchenko, Halina Kobalava, Victoria Kornienko, Roman Radchenko, Vitaliy Maksymov

**11:30-11:45 COFFEE BREAK**

**Hall A Parallel Session 2A**  
Chairman: **Guomin Ji**

**Power Systems**

11.45-13:30	ID66- AN FDTD-BASED SIMULATION STUDY ON DISTINGUISHING CHARACTERISTICS OF INVERTER SWITCHING AND PULSE FAULT DURING SUB-CYCLE TRANSIENT PERIOD	<b>Guomin Ji</b> , Sudantha Perera, Yihru Huang, Yan Zhang, Di Wu
	ID67- LIMITATION OF FUNDAMENTAL ANALYTICS FOR FAULT TRANSIENTS ON PLANNING OF TRANSMISSION SYSTEMS WITH HIGH PENETRATION OF SOLAR PV RESOURCES	<b>Varun Perumalla</b> , Gopakumar Gopinathan, Milad Javadi, Almir Ekic, Di Wu, Rama Ramakumar, Dhruv Sharma, Guomin Ji, John Jiang
	ID69- USING FLOATING-INTERLEAVING BOOST CONVERTERS FOR SMALL WIND ENERGY CONVERSION	<b>Moncef Justin Lalou</b> , Capone Michele
	ID119- IMPLEMENTATION OF 30KHZ SINUSOIDAL CURRENT GENERATOR BY USING GAN-FET	Liang-Rui Chen, <b>Zi-Yu Lin</b> , Ying-Lin Chen
	ID124- FREQUENCY AND VOLTAGE CONTROL OF SEIG-WT SYSTEM	<b>Nasir Bilal Abdullah</b>
	ID137- FEATURES OF MOBILE PLATFORMS' EQUIPMENT SECOND ORDER DIGITAL FREQUENCY-DEPENDENT COMPONENTS PHASE-FREQUENCY RESPONSE AT TUNING	<b>Hanna Ukhina</b> , Ivan Afanasyev, ValeriiSytnikov, Oleg Streltsov, Pavel Stupen
	ID195- THD ANALYSIS FOR A PMSG WITH DIFFERENT MAGNET STRUCTURE	<b>Adem Dalcalı</b> , Erol Kurt

**Hall B Parallel Session 2B**  
Chairman: **Ali A. Jazie**

**Materials and Characterization-I**

11:45-13:30	ID233- ELECTROCHEMICAL FABRICATION OF (BI <sub>2</sub> )M(BI <sub>2</sub> TE <sub>3</sub> )N THIN FILMS WITH CONTROLLABLE BISMUTH CONTENT	<b>Aliaksei Bakavets</b> , Yauhen Aniskevich, Genady Ragoisha, Natalia Tsyntsaru, Henrikas Cesiulis, Eugene Streltsov
	ID297- OPTIMIZATION OF ZNO-BASED NEAR UV SOLAR CELL AND LIGHT EMITTING DEVICES	<b>Bilgehan Barış Öner</b> , İrem Öner Alp, Esra Eroğlu, Saime Şebnem Aydın, Yasemin Öztekin Çiftci
	ID47- INFLUENCE OF ELECTROLESS COATING OF NANO REINFORCEMENTS ON MAGNETIC PROPERTIES OF FECO ALLOY COMPOSITES	Amar J. Albaaji, <b>Ali A. Jazie</b>

	ID86- EFFECT OF MOLAR FRACTION OF THE INTRINSIC LAYER ON THE PIN STRUCTURE FOR SOLAR CELL BASED AN INDIUM GALLIUM NITRIDE USING AMPS-1D	<b>Mousli Latifa</b> , Benmoussa Dennai, Azeddine Bouziane
	ID242- PHOTODEPOSITION OF PD ON MOS2/TIO2 NANOCOMPOSITES FOR ENHANCED PHOTOCATALYTIC HYDROGEN PRODUCTION UNDER VISIBLE LIGHT	<b>Nuray Güy</b>
	ID277- NEW ANALYTICAL METHOD DEDICATED TO CALCULATING THE ENERGY GAP VALUE OF NIO/FTO THIN-FILM MATERIAL OF PHOTOVOLTAIC SYSTEMS	<b>Slimani Hamza</b> , Bessous Nouredine
	ID281- FINE STRUCTURED RED-BAND TAIL PHOTOLUMINESCENCE (PL) SPECTRA OF NANOCRYSTALLINE CDS:IN THIN FILMS	<b>Shadia J. Ikhmayies</b>
	ID240- STUDY OF THE EFFECT OF PREPARATION PARAMETERS ON THERMAL CONDUCTIVITY OF METAL OXIDE NANOFUIDS USING TAGUCHI METHOD	Nikhil S. Mane, <b>Vadiraj Hemadri</b>

**13:30-14:00 LUNCH**

**Hall A**

**Keynote Session 2**

14:00-14:45	<b>Prof. Dr. Ahmed Faheem Zobaa</b> ELECTRICAL ENERGY STORAGE – THE FUTURE ROLES AND CHALLENGES
	<b>Prof. Dr. Ferda Hacivelioglu</b> SINGLE COMPONENT SOLUTIONS OF CONDUCTING POLYMERS FOR OPTOELECTRONIC DEVICE APPLICATIONS

**Hall A Parallel Session 3A**  
**Chairman: Chesser Michael**

**Control**

14:45-16:30	ID90- STOCHASTIC OPTIMAL CONTROL OF RENEWABLE ENERGY	<b>Renzo Miguel Caballero Rosas</b> , Raul Fidel Tempone
	ID98- THE IMPACT OF EXTREME WEATHER ON ELECTRICITY DEMAND FROM HOMES HEATED BY AIR SOURCE HEAT PUMPS	<b>Chesser Michael</b> , Lyons Pádraig, O'Reilly Padraic, Carroll Paula
	ID147- SUPER TWISTING ALGORITHM- BASED DISCRETE-TIME CONTROL OF INDUCTION MOTOR	<b>Farhi Salah Eddine</b> , Sakri Djamel, Goléa Nouredine
	ID185- PRELIMINARY EXPERIMENTAL CALIBRATION AND VALIDATION OF A DYNAMIC SIMULATION MODEL FOR FAULT DETECTION AND DIAGNOSIS OF AIR-HANDLING UNITS	Antonio Rosato, <b>Francesco Guarino</b> , Vincenzo Filomena, Sergio Sibilio, Luigi Maffei
	ID213- THE LOAD SHEDDING PREDICTION IN GECOL USING ARTIFICIAL NEURAL NETWORK	<b>Ashraf Mohammed Abusida</b> , Aybaba Hançerlioğullari, Javad Rahebi, Erol Kurt, Seçil Karatay, Yasemin Gültepe, Rezvan Rezaeizadeh
	ID253- SATELLITE CARRIER STRUCTURE ANALYSIS AND AERODYNAMIC CHARACTERISTICS FOR LOW ALTITUDE DELIVERY SYSTEM	Koten Hasan, <b>Tufan Tarık</b> , Demir Enes
	ID271- POWER MANAGEMENT SYSTEMS FOR AN INTELLIGENT HOME	<b>Nabeel Shaway Shyaa Al-Atwan</b> , Mircea Nitulescu





25 August 2020 Tuesday

Hall A

Keynote Session 3

08:30-09:30	<b>Assoc. Prof. Dr. Ozan Erdinç</b> THE NEED FOR INCREASED FLEXIBILITY IN MODERN POWER SYSTEM OPERATION
	<b>Prof. Dr. Amjad Ali</b> HETEROGENEOUS CATALYST ASSISTED TRIGLYCERIDE AND GLYCEROL CONVERSION INTO VALUE ADDED PRODUCTS
	<b>Prof. Dr. F. Shadi Shahedipour-Sandvik</b> WIDE BAND-GAP SEMICONDUCTOR POWER ELECTRONICS

Hall A Parallel Session 5A  
Chairman: Aliona Nicolenco

Materials and Characterization-II

09:30-11.30	ID214- APPLICATION OF ELECTROCHEMICALLY DEPOSITED MOS2 FILMS FOR HETEROGENOUS HYDROGEN EVOLUTION REACTION CATALYSIS	<b>Ramunas Levinas</b> , Natalia Tsyntsaru, Henrikas Cesiulis
	ID223- NANOPOROUS FE-GA ALLOYS WITH MAGNETOELECTRIC CAPABILITIES	<b>Aliona Nicolenco</b> , Xiang-Zhong Chen, Natalia Tsyntsaru, Henrikas Cesiulis, Salvador Pané, Eva Pellicer, Jordi Sort
	ID231- IRON GROUP-BASED ELECTRODEPOSITS FOR EFFECTIVE ELECTROCATALYSIS	<b>Natalia Tsyntsaru</b> , Edita Vernickaite, Henrikas Cesiulis
	ID252- ELECTROCHEMICAL IMPEDANCE SPECTROSCOPY AS AN EFFECTIVE TOOL TO CHARACTERIZE MATERIALS FOR ENERGY APPLICATIONS	<b>Henrikas Cesiulis</b> , Natalia Tsyntsaru
	ID272- METAL ORGANIC FRAMEWORK MATERIAL (MOF) FOR ATMOSPHERIC WATER HARVESTING IN ARID REGIONS	<b>Ibrahim Al-Hashemi</b> , Raya Al-Dadah, Saad Mahmoud
	ID278- SIMULATIVE EVALUATION OF TRIBOELECTRIC POLYMER PAIRS IN VERTICAL CONTACT MODE	<b>Shimna Shafeek</b> , Sibgatulla Sharieef
	ID303- HIGH TEMPERATURE LEAD ACID BATTERY SOC AND SOH CHARACTERIZATION BASED ON ELECTROCHEMICAL IMPEDANCE SPECTROSCOPY DATA	Javier Olarte, <b>Ekaitz Zulueta</b> , Raquel Ferret, Erol Kurt, Jaione Martínez de Ilarduya, Jose Manuel Lopez-Guede
	ID304- EFFECTS OF SUBSTRATES ON THE GROWTH OF BETA VULGARIS SUBSP. VULGARIS IN HYDROPONIC SYSTEMS	Tran Trong Nhan, Ngo Van Tuan, <b>Nguyen Phuc Thien</b>

Hall B Parallel Session 5B  
Chairman: Sujit Sopan Barhate

Biomass - Biodiesel & Hydrogen Energy

09:30-11.30	ID267- HYBRIDIZATION OF A GEOTHERMAL POWER PLANT WITH BIOMASS DRIVEN SCO2 CYCLE	<b>Balkan Mutlu</b> , Derek Baker, Feyza Kazanç Özerinç
	ID42- TRANSESTERIFICATION OF WASTE COOKING OIL USING BONE AND EGG SHELL MIXTURE AS A CATALYST	<b>Ali A. Jazie</b> , Amar J. Albaaji

	ID138- HOW CAN ROMANIA IMPROVE THE POTENTIAL OF SUSTAINABLE ENERGY DEVELOPMENT USING FOREST BIOMASS	Laurențiu Ciornei, <b>Paula Munteanu</b>
	ID172- THE STUDY AND OPTIMIZATION OF PRODUCTION/FERMENTATION PROCESSES IN BIOFUEL PRODUCTION FOR MAXIMIZING ENERGY OUTPUTS	<b>Amardeep Singh</b>
	ID232- EXPERIMENTAL STUDIES OF NOVEL HYDROGEN PRODUCTION SYSTEM INTEGRATED WITH NANOFUID BASED PVT SYSTEM	<b>S.Senthilraja</b> , R.Gangadevi, Hasan Köten, P.Ravichandran
	ID284- PROTON EXCHANGE MEMBRANE FUEL CELL DEGRADATION: AN EXPERIMENTAL ANALYSIS	<b>Sujit Sopan Barhate</b> , Rohini Mudhalwadkar
	ID243- EXERGY ANALYSES AND INTEGRATED GAS COMBINED CYCLE FOR A HIGH EFFICIENCY OF A NUCLEAR POWER PLANT	<b>Rauf Terzi</b> , Erol Kurt

**11:30-11:45 COFFEE BREAK**

**Hall A Parallel Session 6A**  
Chairman: **Claudia Irina Borzea**

**Control & Energy Harvesting**

11.45-13:30	ID255- HYBRID ENERGY STORAGE SYSTEMS	Victor Sineglazov, <b>Denis Karabetsky</b>
	ID266- RESEARCH OF ENERGY AND EXERGY MODEL OF THERMOSIPHON CIRCULATION SOLAR COLLECTORS WITH THERMAL PUMPS FOR HEATING AND HOT WATER SUPPLY	Yedilkhan Amirgaliyev, <b>Murat Kunelbayev</b> , Aliya Kalizhanova, Omirlan Auelbekov, Nazbek Katayev, Ainur Kozbakova
	ID273- THE EFFECT OF CATHODE CAVITIES TO THE MODES OF A CAVITY MAGNETRON	<b>Yunus Yıldız</b> , Erol Kurt
	ID290- IMAGE-BASED WATER LEVEL ESTIMATION FOR REDUNDANCY INFORMATION USING CONVOLUTIONAL NEURAL NETWORK	Fleury Gabriela Rocha de Oliveira, Nascimento Douglas Vieira do, <b>Galvão Filho Arlindo Rodrigues</b> , Carvalho Rafael Viana, Ribeiro Filipe de Souza Lima, Coelho Clarimar José
	ID298- STEP BY STEP MODELLING, ANALYSIS AND SIMULATION OF A HIGH-EFFICIENCY BATTERY CONTROL SYSTEM BY USING MATLAB ENVIRONMENT PROGRAM	<b>Mohammed Ayad Alkhafaji</b> , Yunus Uzun
	ID254- MAXIMUM POWER POINT TRACKING UNDER PARTIAL SHADING CONDITIONS USING NOVEL MINE BLAST ALOGRITHM	<b>Denis Karabetsky</b> , Victor Sineglazov
	ID12- A CLASSIFICATION TOOL FOR THE MOTION OF A PIEZOELECTRIC ENERGY HARVESTER VIA NEURAL NETWORK	Erol Kurt, Mehmet Tekerek, <b>Kayhan Çelik</b> , Mehmet Gök
	ID127- ALGEBRAIC MODELING OF A NEW ELECTROMAGNETIC MECHANICAL VIBRATION ENERGY HARVESTING	Erol Kurt, Aigerim Issimova, Bekbolat Medetov, <b>Kayhan Çelik</b> ,
	ID162- BOOSTING THE ELECTRIC OUTPUT OF A CANTILEVER PIEZOELECTRIC HARVESTER BY TIP CURVATURE BLOCKING ELEMENTS	<b>Claudia Irina Borzea</b> , Constantin Daniel Comeagă, Adrian Săvescu

**Hall B Parallel Session 6B**  
Chairman: **Pedro Juan Roig**

**Simulations on Energy Systems**

11:45-13:30	ID257- NUMERICAL SIMULATION ON MATHEMATICAL MODELING OF VERTICAL CONTACT MODE TRIBOELECTRIC GENERATORS	<b>Shimna Shafeek</b> , Mohammad Asim Riaz
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	ID260- FIRE MODELLING AND SMOKE EXTRACTION IN THE ENCLOSED CAR PARK ZONE USING CFD TECHNIQUE	Koten Hasan, <b>Akkaya Kerim</b>
	ID274- OVERVIEW OF PHOTO-BIOREACTORS USING COMPUTATIONAL FLUID DYNAMICS TECHNIQUE	Yucel Necla, Koten Hasan, <b>Kilicaslan Bulent Serkan</b>
	ID275- DESIGN OF ARTIFICIAL NEURAL NETWORKS FOR FUNCTION APPROXIMATION OF MAXIMUM POWER POINT TRACKING IN PV SYSTEMS	<b>Vidhya K Viswambaran</b> , Akram Bati, Erping Zhou
	ID282- ARITHMETIC STUDY ON ENERGY SAVING FOR SOME COMMON DATA CENTRE TOPOLOGIES	<b>Pedro Juan Roig</b> , Salvador Alcaraz, Katja Gilly
	ID287- 3D FLOW SIMULATION OF A HORIZONTAL AXIS WIND TURBINE WITH A FLAT PLATE ON PRESSURE SIDE	<b>Mustafa Serdar Genç</b> , Khalida Sekhoune Özden, Tuna Murat Bodur
	ID289- FLOW-INDUCED MECHANICAL ANALYSIS OF A HORIZONTAL AXIS WIND TURBINE WITH A FLAT PLATE ON PRESSURE SIDE	Mustafa Serdar Genç, <b>Tuna Murat Bodur</b> , Khalida Sekhoune Özden
	ID302- ARTIFICIAL NEURAL NETWORK-BASED STOP CRITERIA FOR A GENETIC ALGORITHM	<b>Ekaitz Zulueta Guerrero</b> , Ander Sánchez Chica, Daniel Teso-Fz-Betoño, Unai Fernández-Gámiz, Jose Antonio Ramos-Hernanz, Jose Manuel Lopez-Guede
	ID116- AN APPLICATION OF A WIRELESS POWER TRANSFER AT LOW FREQUENCY RANGE	Erol Kurt, <b>Fatemeh Zafarmand</b> , Hikmet Fidanboy, Şevki Demirba

**13:30-14:00 LUNCH**

**Hall A Parallel Session 7A**  
Chairman: **Liudmila Cazacova**

**Energy-Environment and Policy-II**

14:00-16:00	ID154- HOW DO STUDENTS' COMPETITIONS LIKE SOLAR DECATHLON INCREASE RENEWABLE ENERGY AWARENESS AND WHO DOES BENEFIT?	<b>Liudmila Cazacova</b> , Eka Sediadi
	ID251- MULTICRITERIA OUTRANKING METHODS AND THE HYDROPOWER EXPANSION PLANNING IN BRAZIL	<b>Raupp Igor</b> , Clímaco João, Costa Fernanda
	ID203- NUMERICAL SIMULATION OF AN ON-GRID NATURAL GAS PEMFC - SOLAR PHOTOVOLTAIC MICRO CHP UNIT: AN ENERGY AND FINANCIAL ANALYSIS FOR RESIDENTIAL AND INDUSTRIAL APPLICATIONS	Renato de Oliveira Gabriel, Sergio Leal Braga, <b>Florian Pradelle</b> , Eduardo Torres Serra, Cesar Luiz Coutinho Sobral Vieira
	ID244- DESIGN OF A VISUAL TESTING SYSTEM IN A ROBOTISED WELDING WORKSHOP OF JACKET NODES BY MEANS OF DES AND ERGONOMIC SOFTWARE	Adolfo Lamas Rodríguez, Javier Pernas Álvarez, <b>Inés Taracido López</b>
	ID246- ACCELEROMETER MASS LOADING STUDY BASED ON A DAMAGE IDENTIFICATION METHOD USING FUNDAMENTAL LAWS IN CLOSED SYSTEMS	<b>Tarik Tufan</b> , Hasan Köten
	ID299- PERFORMANCE STUDY OF THE CELL-SET MODEL FOR A GURNEY FLAP IMPLEMENTATION	<b>Alejandro Ballesteros-Coll</b> , Unai Fernandez-Gamiz, Iñigo Aramendia, Ekaitz Zulueta, Jose Manuel Lopez-Guede

	ID76- ON RENEWABLES AND THE RESILIENCE OF SOCIO-TECHNOLOGICAL ENERGY SYSTEMS	<b>Amadi-Echendu</b> , Joe, Thopil, George Alex
	ID166- PERFORMANCE OF THE FIRE-FIGHTING SYSTEM: ALGERIAN CASE STUDY	<b>Marref Souad</b> , Chettouh Samia

**Hall B Parallel Session 7B**  
Chairman: **Mahendra Gooroochurn**

**Mixed Energy Topics-I**

14:00-16:00	ID134- THE RECOVERY OF HISTORIC CENTRES: A MULTIPLE STRATEGY FOR THE ENERGY SAVINGS	Losco Giuseppe, Pierleoni Andrea, <b>Roncaccia Elisa</b>
	ID140- ARTIFICIAL NEURAL NETWORK DESIGN FOR AN AXIAL FLUX PERMANENT MAGNET GENERATOR	<b>Adem Tekerek</b> , Erol Kurt
	ID95- METHOD OF DETERMINING A RATIONAL DESIGN REFRIGERATION CAPACITY OF OUTDOOR AIR CONDITIONING SYSTEMS	<b>Mykola Radchenko</b> , Eugeniy Trushliakov, Andrii Radchenko, Dmytro Konovalov, Veniamin Tkachenko, Oleksii Zielikov
	ID291- A PRELIMINARY IN-SITU MEASUREMENT AND SIMULATION OF THE PERFORMANCE OF GROUND-COUPLED HEAT EXCHANGER SYSTEM IN THE TROPICAL CONTEXT OF MAURITIUS	<b>Gooroochurn Mahendra</b> , Seegobin Budhiraj, Jankee Lowkhaushaling
	ID235- ULTRASONIC (CONTACT METHOD) WELD PENETRATION DEPTH MEASURING STUDIES	<b>Bulent Kiliçaslan Serkan</b> , Koten Hasan, Yucel Necla
	ID248- ELECTRODEPOSITION OF CO AND CO-PT METAL FOAMS FOR WATER ELECTROCATALYSIS	<b>Modestas Vainoris</b> , Natalia Tsyntaru, Henrikas Cesulius
	ID50- EFFECT OF OPTIMIZED INTAKE MANIFOLD GEOMETRY ON BEHAVIORS AND EMISSION LEVEL OF H <sub>2</sub> CNG FUELED ENGINE	<b>Rafaa Saaidia</b> , Raid Oyouni, Haider Almuslam
	ID276- MACHINE LEARNING MODELS FOR PREDICTING PV GENERATED POWER	Penka V. Georgieva, <b>Alexander Ivanov</b>
	ID202- HIGH VOLTAGE SOLAR INVERTER STRUCTURES	<b>Ahmet Yıldız</b> , Onder Özgener, Leyla Özgener

**16:00-16:15 COFFEE BREAK**

**Hall A Parallel Session 8A**  
Chairman: **H. Hilal Kurt**

**Mixed Energy Topics-II**

16:15-18:00	ID152- RATIONAL LOADS OF TURBINE INLET AIR ABSORPTION-EJECTOR COOLING SYSTEMS	<b>M. Radchenko</b> , A. Radchenko, S. Kantor, Bohdan Portnoi, Anatolian Zubarev, Ivan Kalinichenko
	ID250- PMSM PARAMETER ESTIMATION USING A KIEFER-WOLFWITZ BASED SEARCH ALGORITHM	<b>Artun Sel</b> , Cosku Kasnakoglu
	ID293- COMPARATIVE STUDY OF DISCHARGE EMISSION AMPLIFICATION IN AR-DRIVEN GAS DISCHARGE SYSTEM WITH MICROPOROUS ZEOLITE CATHODE	B.G. Salamov, <b>H. Hilal Kurt</b>
	ID294- THE PLASMA SYSTEM WITH INP PHOTODETECTOR	<b>H. Hilal Kurt</b> , F. Karip
	ID295- THE ELECTRON CURRENT DENSITY PATTERNS IN SEMICONDUCTOR-GAS DISCHARGE SYSTEM	<b>H. Hilal Kurt</b> , B.G. Salamov, E.Tanrıverdi
	ID296- THE CHARACTERISTIC FEATURES OF THE COLD PLASMA WITH ZNSE ELECTRODE	<b>H. Hilal Kurt</b> , S.Kızıışar

	ID91- PERFORMANCE ANALYSIS OF A PARABOLIC THROUGH CONCENTRATOR WITH A CURVED SECONDARY REFLECTOR	<b>Bouali Belkacem</b>
	ID175- A MULTI-AGENT APPROACH FOR DECENTRALIZED VOLTAGE REGULATION IN ELECTRICAL DISTRIBUTION SYSTEM WITH RENEWABLE GENERATION	Ömer Gül, Emre Köksal
	ID192- ADAPTIVE OVERCURRENT PROTECTION FOR ELIMINATE TO MISOPERATION IN ELECTRICAL DISTRIBUTION NETWORKS	Ömer Gül, Anıl Çağlar Doğancı

**Hall B Parallel Session 8B**  
Chairman: **Vidhya K. Viswambaran**

**Mixed Energy Topics-III**

16:15-18:00	ID83- CFD ANALYSIS OF THE EFFECT OF H2CNG BLEND NATURE ON IN-CYLINDER FLOW	<b>Haider Almusallm, Rafea Saaidia</b>
	ID280- COMPOSITION EFFECTS ON ELASTIC AND ELECTRONIC PROPERTIES OF RU DOPED OSHF (RUXOS1-XHF) ALLOYS: AB-INITIO STUDY	<b>Yasemin Öztekin Çiftci</b>
	ID279-THEORETICAL STUDY ON PRESSURE EFFECTS ON PHYSICAL PROPERTIES OF SEMICONDUCTOR COMPOUND LICDP	<b>Yasemin Öztekin Çiftci</b>
	ID80- CFD INVESTIGATION ON PISTON HEAD GEOMETRY EFFECT ON IN-CYLINDER FLOW FOR HYDROGEN FUELED ENGINE	Raid Oyouni, <b>Rafea Saaidia</b>
	ID262- PERFORMANCE EVALUATION OF POWER CONVERTERS & ARTIFICIAL INTELLIGENCE BASED MPPT TECHNIQUES IN GRID-TIED PV SYSTEMS	<b>Vidhya K Viswambaran</b> , Akram Bati, Erping Zhou
	ID301- ATOM SEARCH OPTIMIZATION ALGORITHM FOR OPTIMIZATION OF POWER GENERATION IN MICROGRID	<b>Wafeeqa Abdulrazak Hasan</b> , Issa Ahmed Abed, Diyah Kammel Shary
	ID261- DEVELOPMENT OF HEMP SHIVE WALLBOARD WITH INTEGRATED PHASE CHANGE MATERIAL	<b>Edgars Kirilovs</b> , Gusovius Hans-Jörg, Inga Zotova, Silvija Kukle
	ID-159 INXGA1-XP AND INXAL1-XP HETEROSTRUCTURES FOR CASCADE SOLAR CELLS INVESTIGATION	<b>Andrey Lebedev</b>

**18:15 CLOSING SESSION**

**Prof. Dr. Erol Kurt**



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**THANKS FOR YOUR CONTRIBUTION**  
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