



PROGRAMME BOOK

7. EUROPEAN CONFERENCE on RENEWABLE ENERGY SYSTEMS

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ECRES

10-12 June 2019

MADRID / SPAIN - ESPAÑA

Proceedings ISBN: **978-605-86911-7-9**

Conference Venue: <https://goo.gl/maps/v2s4uEhFFzKFHw279>

10 June 2019 Monday

08:30-10:00 On-desk Registration at Conference Venue

<https://goo.gl/maps/v2s4uEhFFzKFHw279>

10 June 2019 Monday

Opening Session Hall A

10:00 - 10:10	Talk of Chairman, Prof. Dr. E. Kurt (Head of the organizing committee)
10:10 - 10:30	Welcome Talk: Prof. Dr. Juan Romo, Rector of Universidad Carlos III de Madrid
10:30 - 10:40	Talk of Local Organizing Committee Member: Assoc. Prof. Dr. J.M.Lopez Guede, University of Basque Country, Spain

11:00-11:30 COFFEE BREAK

Hall A Parallel Session 1 SMART GRID AND CONVERSION COMPONENTS
Chairman: Prof. Dr. Rachid CHENNI & Prof. Dr. Jose Antonio Ramos-Hernanz

11:30-11:45	ID140-A review: communication security on smart grid	
11:45-12:00	ID147-Design of Luenberg state observer based RDC in PMSMs for energy efficiency and position accuracy	
12:00-12:15	ID122- Efficiency performance of electricity transmission and distribution system in Pakistan	
12:15-12:30	ID150-Design of Extended Kalman Filter Based Linear Quadratic Integral Control for SEPIC Converter	
12:30-12:45	ID208-Impact analysis of EVs charging demand on distribution system	
12:45-13:00	ID136-Model-predictive control for power management of renewable energy systems	
13:00-13:15	ID103-Performance comparison of two-level and three-level converters based synchronous static compensator (STATCOM)	

Hall B Parallel Session 1 PHOTOVOLTAICS & MATERIAL CHARACTERIZATION
Chairman: Prof. Dr. Sema Bilge Ocak & Prof. Dr. Abdelhamid Mekhlouf

11:30-11:45	ID225-Electrodeposited CdZnS/CdS/CIGS/Mo: Characterization and solar cells performance	
11:45-12:00	ID145-Current Control of SRM fed by SEPIC MPPT based PV Array	
12:00-12:15	ID177-Experimental investigation of the effect of back contact on electrochemically deposited CZTS kesterite thin films	

12:15-12:30	ID217-Real time implementation of neuro-fuzzy MPPT control of PV systems	
12:30-12:45	ID156-Flexible dye-sensitized-solar-cells for indoor energy harvesting	
12:45-13:00	ID157-Enhancing DSSC photoanode performance by using handmade Ni-doped TiO ₂ to fabricate scattering layers	
Hall C Parallel Session 1 THERMODYNAMICS & ENGINES Chairman: Prof. Dr. Unai Fernandez – Gamiz & J.M.Lopez Guede		
11:30-11:45	ID29-Impacts of the Base Fluid Species on the Thermal Performance of the Nanofluid Used in a Heat Pipe	
11:45-12:00	ID30-Enhancement of Heat Transfer Characteristics of a Heat Pipe by Utilizing Dolomite/Ethylene Glycol Nanofluid	
12:00-12:15	ID54-Investigation of the effects of the use of diesel-ethanol fuel mixture as a secondary fuel on the performance and emission of a dual-fuel compressed-ignition engine	
12:15-12:30	ID55-Experimental investigation of the effects of sunflower and hazelnut oil usage on performance and emission values in a diesel engine	
12:30-12:45	ID267-Modeling of reciprocating renewable gas engines	
12:45-13:00	ID265-Fast start reciprocating engines in the flexible power generation	
13:00-13:15	ID260-Exergy analysis and integrated solar system suggestion for a natural gas fired combined-cycle power plant	
13:30-14:30 CONFERENCE PHOTO- 1 and LUNCH		
Hall A Invited Talk Session 1 Chairman: Prof. Dr. Erol Kurt		
14:30-15:15	KEYNOTE: High flexibility analysis of biodiesel production using multi-feedstock oil	Prof. Dr. H. Hadiyanto Center of Biomass and Renewable Energy (CBIORÉ), DiponegoroUniversity, Indonesia
Hall A Parallel Session 2 ENERGY EFFICIENCY & OPTIMIZATION ISSUES Chairman: Prof. Dr. Giuliano Buceti & Prof. Dr. Juan Carlos Sánchez González		
15:15-15:30	ID66-Hydrogasification as Power to X option	
15:30-15:45	ID36-Study on the Effect of Exhaust Heat Recovery System on Vehicle Performance	

15:45-16:00	ID60-Process of Assembling and Testing of Water Flow Glazing Facade	
Hall B Parallel Session 2 MATERIAL CHARACTERIZATION Chairman: Assoc. Prof. Dr. Salah Al Omari & Prof. Dr. Sema Bilge Ocak		
15:15:15:30	ID6-High Pressure Sensor Based on Photonic Crystal Cavity	
15:30-15:45	ID205-A Proposal to Use Crude GlycE. (A Waste Byproduct in Biodiesel Production Industry) as Enhancing Agent for Sunlight Absorption for Direct Photo-Thermal Conversion Solar Collectors	
15:45-16:00	ID202-Gamma-Ray Irradiation Impacts on the Current-Voltage Relations of Rubrene Based Organic Metal Polymer Semiconductors	
Hall C Parallel Session 2 BATTERIES Chairman: Dr. Toshiki Iwai & Dr. Tatsuya Okobira		
15:15:15:30	ID155-A simple method for etching and doping zinc to aluminum anodes for high performance aluminum air batteries	
15:30-15:45	ID158-Study of activated carbon sheets used for air-cathodes of portable quasi-solid aluminum air batteries	
15:45-16:00	ID159-CNT coating on surface-processed aluminum anodes for high-performance aluminum air batteries	
16:00-16:30 COFFEE BREAK		
Hall A Parallel Session 3 BIOMASS & BIODIESEL Chairman: Assist. Prof. Dr. Maris Klavins & Prof. Dr. Sulaiman Al-Zuhair		
16:30-16:45	ID248-Mesophilic anaerobic co-digestion of cheese whey with cow manure in batch reactor	
16:45-17:00	ID237-Sizing of Electric Power Generation Systems from Biogas to Sewer Treatment Stations with Anaerobic Reactors, Through the Generator Staggering Methodology	
17:00-17:15	ID144-Design solvents for enhanced enzymatic biodiesel production	
17:15-17:30	ID21- A Parametric Study Exploring the Effect of DS Type, Size and the Methods of Oil extraction of UAE Date Seed and its Potential for Energy Production	
17:30-17:45	ID7-Progress towards waste-to-energy approach implementation: gasification of recycle derived fuel	
Hall B Parallel Session 3 SOLAR CONCENTRATING SYTSTEMS Chairman: Prof. Dr. H. Mehmet Şahin & Prof. Dr. Chong Li		

16:30-16:45	ID75- Numerical Analyses of the Concentrated Solar Receiver Pipes with Superheated Steam	
16:45-17:00	ID91-Current status of solar home systems in Bangladesh	
17:00-17:15	ID57-Design and Configuration of a Multiple Tower Field Setup from a Conventional Power Tower System	
17:15-17:30	ID268-Effect of Optical Thickness on the Melting of Phase Change Material during Thermal Energy Storage for Concentrated Solar Power	
17:30-17:45	ID70-Modeling and Simulation of a Beta-type Stirling Engine under Air, Nitrogen and Helium Media	

Hall C SPECIAL SESSION 3a - Advances in Wind, Photovoltaic and Harvesting Systems
Chairman: Prof. Dr. J.M.Lopez Guede

16:30-16:45	ID176-Meola Model on an ANN Genetic Optimization with Artificial Neural Network cost function predictor applied to an Air Jet Impingement Design	
16:45-17:00	ID88-Synthetic wind speed generated by artificial neural network for simulation purposes	
17:00-17:15	ID79-Methodology of energy simulation applied to an office building	
17:15-17:30	ID76-Production scheduling optimization using heuristic algorithms for hybrid renewable power plants with a battery energy storage system	
17:30-17:45	ID85-Theoretical and Experimental Comparison of Zero and Minimum Crossflow Air Jet Impingement Schemes for the improvement of PV cells efficiency	

11 June 2019 Tuesday

Hall A Invited Talk Session 2
Chairman: Prof. Dr. Jose Manuel Lopez Guede

09:15-10:00	KEYNOTE: Fluid Structure Interaction Modelling of Tidal Current Turbines	Prof. Dr. Saeed Badshah Department of Mechanical Engineering, International Islamic University Islamabad, Pakistan
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Hall A SPECIAL SESSION 3b - Advances in Wind, Photovoltaic and Harvesting Systems
Chairman: Prof. Dr. J.M.Lopez Guede

10:00-10:15	ID180-Artificial Neural Network based Wind Turbine Yaw System Modelling and Real-Time Yaw Moments Estimation	
10:15-10:30	ID163-Computational Characterization of a Rectangular Vortex Generator on a Flat Plate	

10:30-10:45	ID252-Application of ABSA and JADE algorithms for pitch control of a mini wind generator model	
10:45-11:00	ID152-Analysis of an MPPT based on the irradiance and temperature	
Hall B Parallel Session 4 ELECTRICAL NETWORKS Chairman: Prof. Dr Rachid Chenni & Assoc. Prof. Nazym Temirgaliyeva		
10:00-10:15	ID254-Operational Management of the Microgrid considering lifetime Characteristics of the Lithium-Ion Battery Energy Storage	
10:15-10:30	ID207-Renewable energy production and regional development: The case of Almaty region of Kazakhstan	
10:30-10:45	ID86-A detailed modeling method to control the frequency deviation in microgrid	
10:45-11:00	ID72-Dynamic modelling and sensibility analysis of a hybrid photovoltaic-thermal (PVT) system	
Hall C Special Session 4 Material Characteristics in Energy Systems Chairman: Prof. Dr. H. Hilal Kurt & Gulbakhar Yussupova		
10:00-10:15	ID227-Modeling and optimization of the spectral reflection coefficient and dispersion of the Bragg grating	
10:15-10:30	ID112-Method of electrochemical impedance spectroscopy in time domain adapted to diagnostics of electrochemical power sources	
10:30-10:45	ID195-InP Based Micoplasma Systems for Optoelectronic Devices	
10:45-11:00	ID257-Ar-Driven Gas Discharge System on the Basis of Dielectric Zeolite Material	
11:00-11:30 COFFEE BREAK		
Hall A SPECIAL SESSION 6 - Energy efficiency and sustainability in buildings and industry Chairman: Prof. Carolina Marugán & Assoc. Prof. Dr. Fontina Petrakopoulou		
11:30-11:45	ID18- Energy generation using new building-integrated photovoltaic façade systems	
11:45-12:00	ID219-Construction of the workspace of the 3rpr parallel robot by the method of the non-uniform coverings and stabilization of the motion of the electric power system	
12:00-12:15	ID212-Behavior of solar panels under partial shading - Experimental approach	
12:15-12:30	ID234-Sensitivity Analysis and Recommendations for Residential Peer-to-Peer Mechanism in Single Buyer Electricity Market	
12:30-12:45	ID236-Cost Benefit Analysis for Peer-to-Peer Mechanism in Residential Sector of a Single Buyer Market Country	

12:45-13:00	ID211-Experimental evaluation of a hydrophobic membrane desorber/condenser operated with water/LiBr mixture at hot weather condensation temperatures	
13:00-13:15	ID269-Modeling the operative temperature of office buildings	
Hall B SPECIAL SESSION 7 Achieving nearly Zero Energy Buildings with Water Flow Glazing facades Chairman: Prof. Dr. B. Moreno Santamaria & Prof. Dr. T.T. Chow		
11:30-11:45	ID49-Software tool for the design of water flow glazing envelopes	
11:45-12:00	ID48-Commissioning process of water flow glazing facades	
12:00-12:15	ID47-Thickness dimensioning of water flow glazing facades	
12:15-12:30	ID46-Automation Platform as an Advanced Energy Management System	
12:30-12:45	ID45-Industrialization of Water Flow Glazing facades by means of modular units	
12:45-13:00	ID44-Building Energy Modeling by means of BIM software. A case study with Water Flow Glazing	
13:00-13:15	ID41-Thermal performance of water-filled double-glazing system in China	
13:15-13:30	ID43-Modeling energy performance of water-filled double-glazing with submerged heat exchanger	
Hall C SPECIAL SESSION 5 Thermochemical Energy Storage: Materials and Application Chairman: Prof. Dr. Danny Müller		
11:30-11:45	ID22-Thermo-characterization of a cement-based material for thermal energy storage	
11:45-12:00	ID90- Thermochemical Energy Storage Materials – Reaction Principles and Possible Problems	
12:00-12:15	ID110- Medium temperature Range Al(OH) ₃ /AlOOH chemical heat pump	
12:15-12:30	ID138-Thermochemical storage of solar energy – from milliwatts to kilowatts	
12:30-12:45	ID164-Experimental Results of a 200 kWh Thermochemical Heat Storage System for Domestic Application	
12:45-13:00	ID162-Sorption Collector - Performance Increase of Closed Sorption Storage Systems	
13:00-13:15	ID241-Thermochemical performance of MgO – Influences of chemical history, morphology and dopants	
13:15-13:30	ID109-CaO/Ca(OH) ₂ for thermochemical storage: Kinetics, fluidization and heat transfer behavior	

13:30-14:30

CONFERENCE PHOTO- 2 and LUNCH**Hall A Parallel Session 5****ELECTRICAL NETWORKS & POWER COMPONENTS****Chairman: Prof. Dr. Konstantin Petrosyants & Assist. Prof. Dr. Saurabh Ratra**

14:30-14:45	ID264-ANN Estimation of the Switching Losses in DC-DC Boost Converters	
14:45-15:00	ID239-Efficient Methodology for Optimum Placement of STATCOMs to Boost Voltage Stability Margin by Circular Optimization Algorithm	
15:00-15:15	ID224-Optimal DG Sizing and Placement Using PSO for Efficient Operation of Distribution System	
15:15-15:30	ID245-Optimal sizing of a PV-WT hybrid system for a street lighting application based on Mixed Integer Linear Programming: A comparative study	
15:30-15:45	ID253-Harmonic identification using ADALINE in Active Power Filtering	
15:45-16:00	ID242-Universal physical model of low-power and long lifetime betavoltaic microbatteries	

Hall B Parallel Session 5**ELECTRICITY CONVERSION****Chairman: Assoc. Prof. Dr. Juris Blums & Dr. Evgenii Denisov**

14:30-14:45	ID210-Towards the creation of fully autonomous wearable system for subject's microclimate measurement and data transmission	
14:45-15:00	ID214-Self-powered Structural Health Monitoring System based using PZT-based Piezoelectric Cantilever Beam	
15:00-15:15	ID98- Wavelet analysis of the PEMFC electrical fluctuations: diagnostic and prognostic possibilities	
15:15-15:30	ID240-Effects, Position and Density of Novel Control Lattices for PEM Fuel Cells	
15:30-15:45	ID50-Comparative study between fuel cell and battery based power trains for light weight electric vehicles	
15:45-16:00	ID165-Experimental Studies of a Wind Energy Generator with Axial and Radial Flux Morphologies	

Hall C Parallel Session 5**SOLAR ENERGY & COMPONENTS****Chairman: Prof. Dr. Seoyong Shin & Dr. Angad Panesar**

14:30-14:45	ID203-Electronic and Conductivity Characteristics of Rubrene Pentagon Based Schottky Barrier Diodes (SBDs): Co60 Gamma-Ray Irradiation	
14:45-15:00	ID33-Novel linear Fresnel lens-based primary optical element for concentrator photovoltaic system	
15:00-15:15	ID80-Low Temperature Molten Salts in Sustainable Energy Production	
15:15-15:30	ID81-Two-Phase Expander Model for Energy Recovery Applications	

15:30-15:45	ID124-Study and Sizing of Stand-Alone Photovoltaic System Using PVsyst Software	
15:45-16:00	ID127-The Role of Solar in Energy Transition To 100% Renewables For Turkey	
16:00-16:30 COFFEE BREAK		
Hall A Parallel Session 6 CONVERTERS & POWER ELECTRONICS Chairman: Dr. Abdelhamid Mansouri & Dr. Artun Sel		
16:30-16:45	ID39-Implementation and design of fuzzy controller for high performance buck-boost and flyback converters	
16:45-17:00	ID58-A New Power Circuit Design for the Plasma Ignition in a Torus Cell	
17:00-17:15	ID92-MPPT fuzzy-logic pv sourced voltage based backstepping-multiscalar controlled drive for water pumping system	
17:15-17:30	ID108-Implementation of MPPT Control for PV Systems Based on Integral Sliding Mode approach	
17:30-17:45	ID263-Estimation on the Efficiency of Wireless Battery Charging Systems by Machine Learning Algorithms	
Hall B Parallel Session 6 ENERGY EFFICIENCY Chairman: Assoc. Prof. Dr. Weiyu Wang		
16:30-16:45	ID12-The role of flow symmetry on slag formation in an entrained-flow gasifier	
16:45-17:00	ID221-Hardware architecture for smart homes to implement comfort based demand response	
17:00-17:15	ID51-The role of solar panel arrangement on their efficiency in typical for Latvia weather conditions	
17:15-17:30	ID213-Assessment of the Socio-Cultural Viability of Integrated Sanitation Systems for Uganda	
17:30-17:45	ID95-Research on the stability of the hhydropower unit in the electric system containing large intermittent renewable energies	
Hall C Parallel Session 6 MECHANICAL ISSUES Chairman: Prof. Dr Mustafa Ilbaş & Prof. Dr. H. Mehmet Şahin		
16:30-16:45	ID243-Impact of Primary Energy Factors to Achieving Building Energy Performance Targets in Estonia	
16:45-17:00	ID148-Exergetic analysis of multi-heating cycles	
17:00-17:15	ID183-BIPV and small-scale wind turbines for stable power production: modelling and thermoeconomic analysis	
17:15-17:30	ID166-CFD Analysis of Flow Phenomena for Optimum Rotor Blades	

19:30 GALA DINNER & FLAMENCO SHOW

Location: Terrace of restaurant ARZABAL (i.e. restaurant of the Museum Reine Sofia)

**Entrance to restaurant: from Plaza Emperador Carlos V
(in front of the bus stop/taxi stand)**



12 June 2019 Wednesday

Hall A Invited Talk Session 3

Chairman: Assoc. Prof. Dr. Fontina Petrakopoulou-Robinson

09:15-10:00	KEYNOTE: High share of variable renewables resources: Risks and opportunities	Prof. Dr. Julio Usaola Departament Electrical Engineering, Universidad Carlos III de Madrid, SPAIN
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Hall A Parallel Session 7

Renewable Issues in Nuclear Systems

Chairman: Dr. Wei-Yuan Cheng & Dr. Kwan Hyun Kim

10:00-10:15	ID117-The Analysis and Study of CFD and FRAPTRAN for High Burnup Fuels in INER-HPS Dry Storage System	
10:15-10:30	ID97-Analysis of Radionuclide Release in ELAP Condition with Hot Leg Creep Rupture Using MELCOR2.2/SNAP	
10:30-10:45	ID192-The Determination of Quality Criterias in Nuclear Research Fields	
10:45-11:00	ID53-Using TRACE code to perform the study for the tube plugging of Maanshan nuclear power plant under the SBO accident with URG	

Hall B Special Session 5 Energy Materials: Production and Characterization

Chairman: Assist. Prof. Dr. Svetlana Beryozkina & Prof. Dr. Ekaitz Zulueta

10:00-10:15	ID259-Experimental realization of electromigration at high power	
10:15-10:30	ID258-On the eddy current losses in metallic towers	
10:30-10:45	ID262-Estimation of Fuel Cell Parameters with ANFIS	
10:45-11:00	ID186-Limestone Soil energy based on solar energy	

Hall C Parallel Session 7

ENERGY EFFICIENCY

Chairman: Prof. Dr. Mustafa Ilbaş & Prof. Dr. H. Mehmet Şahin

10:00-10:15	ID190-Global Energy Management system	
10:15-10:30	ID154-Improving the performance of yeast-powered MFCs by adding dehydrogenase enzymes to oxidize yeast-produced ethanol	
10:30-10:45	ID261-Estimation of electrical energy produced in photovoltaic systems by ANFIS according to cell temperature and atmospheric parameters	
10:45-11:00	ID235-Using energy efficient technologies in sustainable architecture	

11:00-11:30 COFFEE BREAK

Hall A Parallel Session 8

WIND ENERGY APPLICATIONS

Chairman: Prof. Dr. Serap Ulusam Seçkiner & Assist. Prof. Dr. Unai Fernandez Gamiz

11:30-11:45	ID73-Early fault prediction of wind turbine	
11:45-12:00	ID153-MLP, NARX and Elman neural network modeling for the hourly wind speed forecasting of Tetouan region	
12:00-12:15	ID185-Design of a Low Reynolds Airfoil Family for Small Horizontal Axis Wind Turbine Applications Based on the RG15 Airfoil	
12:15-12:30	ID215-Design of Improved Rotor Blades for a Shrouded Wind Turbine Using the RG15 Airfoil Family	
12:30-12:45	ID230-Aerodynamic Simulation by the DMST model for Darrieus-type straight-bladed F-VAWT with three-stage rotors	
12:45-13:00	ID231-Techno-Economic Investigation of Solar-Wind potential to Power an Industrial Prototype Using a Hybrid Renewable Energy System	
13:00-13:15	ID87-Operation and maintenance scheduling of wind energy assets to minimise the Levelized Cost of Electricity	

Hall B Parallel Session 8 CONTROL TECHNIQUES
Chairman: Prof. Dr. Javad Rahebi & Dr. Mahmood M Shafiee

11:30-11:45	ID25-Renewable Energy Investment Risk Analysis Using Multi-Criteria Decision Making Method	
11:45-12:00	ID228-Low Power Transceiver Design Using Spartan-3 and Spartan-6 FPGA	
12:00-12:15	ID226-Computer aided parametric synthesis of control system for multi-motor asynchronous drive with conformal rotations	
12:15-12:30	ID113-Novel bat algorithm to solve economic power dispatch problem with transmission loss for large scale power system	
12:30-12:45	ID199-Unmanned Aerial Vehicles for Offshore Wind Operation and Maintenance	
12:45-13:00	ID270-Speed Control of SynRM using PSO Algorithm	

Hall C Parallel Session 8 ENERGY & ENVIRONMENTAL ISSUES
Chairman: Prof. Dr. Elías Hurtado & Prof. Dr. Francesco Calise

11:30-11:45	ID8- Current Status and Future Prospects of Renewable Energy in sub-Saharan Africa	
11:45-12:00	ID20-Feasibility studies for zero emission electricity generation scenarios. Application to Spain in 2040	
12:00-12:15	ID182-Thermo-economic analysis of hybrid solar-geothermal polygeneration plants in different configurations	
12:15-12:30	ID102-Effects of injecting gaseous CO ₂ on natural gas hydrate reservoirs: comparison of differences in clathrate dissociation behaviour.	
12:30-12:45	ID178-Assessment of the impact on electricity demand CO ₂ emissions from the penetration of light electric vehicles in the transportation system of Spain	
12:45-13:00	ID247-Using Social Research to create a sustainable market for Heat Networks in the UK	

13:00-13:15	ID151-Power-to-Heat for decarbonizing municipal district heating with high shares of wind energy	
13:30-14:30 LUNCH		
Hall A Parallel Session 9 ENERGY POLICY & FUTURE PLANNING Chairman: Dr. Pablo Del Río & Dr. Özge Önenli		
14:30-14:45	ID266-Input-Output modeling for Consumption Based energy measurement in Errekaleor sustainable urban-neighborhood	
14:45-15:00	ID71-Analyzing the transformation of the German energy system by 2050 with restricted potential of renewable energies	
15:00-15:15	ID123-Potential Obstacles to the Use of Cooperation Mechanisms for CSP in the Future	
15:15-15:30	ID200-Stochastic Energy Portfolio Planning: A Colombian Case Study of Uncertainty and Resilience	
Hall B Parallel Session 9 WIND ENERGY Chairman: Prof. Dr. Ekaitz Zulueta & Assist. Prof. Dr. Unai Fernandez Gamiz		
14:30-14:45	ID101-Lagrangian and classical multi-drone dynamic simulators with application to airborne wind energy systems	
14:45-15:00	ID82-A small-scale experimental setup aimed at the aerodynamic parameter identification of flexible and rigid kites applied to airborne wind energy systems	
15:00-15:15	ID32-On cup anemometer performance analysis and improvement: a (still) ongoing process	
15:15-15:30	ID106-Computational study of the flow around a vertical axis water turbine with diffuser	
16:00-16:30 COFFEE BREAK		
16:30 CLOSING SESSION & DELIVERY OF BEST PAPER AWARDS		

POSTER SESSIONS (*)

ALL POSTER PRESENTERS MUST BE BESIDE THE POSTER		
P1	ID65- Selection of excitation operating points of 10 MW HTS exciting double stator direct-drive wind generators having single and double polarity inner stator	
P2	ID67-Comparison of core loss models in three-phase self-excited reluctance generators	
P3	ID68-Structural Investigation of the Used Magnetic Nano-Fluids for a Gravitational Electrical Generator	
P4	ID77-Chemical texturisation processes for multicrystalline and UMG silicon substrates for silicon-heterojunction solar cells applications	
P5	ID83-Comparison of modular and non-modular bidirectional converter topology for the smart grid applications	
P6	ID84-Finite difference thermoelectric module transient model suitable for materials of uneven properties	
P7	ID107-On the existence and characterization of extreme events in wind data	
P8	ID118-Optimization and Fatigue Analysis of High Pressure Hydrogen Storage Vessel	
P9	ID141-Morphological and structural evaluation of ad/desorption stages of sorbent LiCl composites for thermal energy storage	
P10	ID160-The development of a flexible battery by using a stainless mesh anode	
P11	ID161-Enhancing the performance of E. coli-powered MFCs by using porous 3D anodes based on coconut activated carbon	
P12	ID175-A biodegradable water-activated battery based on an activated carbon anode and a CNT air-cathode	
P13	ID201- New Process of Cold Fusion	

(*) 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 **11 June 2019 between 14:30 – 17:30 at the foyer**. The international scientific committee will ask questions about your posters and evaluate them.

3. The preferred dimension for each poster should be 594 mm in width and 841 mm in height (A1 size) as also stated in web-site of the conference.

4. Please do not forget to get back your poster(s) on **11 June after 17:30**.



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THANKS FOR YOUR CONTRIBUTION
See you in next event

Do you know that UNESCO announces the year of 2019 as “GOBEKLITEPE” year!
Travel to Sanli Urfa / Turkey and see “the zero point of the human history” in GOBEKLITEPE



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