

INTERNATIONAL CONFERENCE ON ENERGY, ENVIRONMENT AND STORAGE OF ENERGY CONFERENCE SCHEDULE

01-09-2022 Thursday

**OPENING CEREMONY AND WELCOME SPEECH - (09.30-09.45)
PROF. DR. SELAHADDİN ORHAN AKANSU**

**PLENARY SPEECH (09.45-10.30)
PROF.DR. İBRAHİM DİNÇER**

(STORAGE, ENVIRONMENT AND SUSTAINABILITY DIMENSIONS OF NOVEL ENERGY SOLUTIONS INCLUDING HYDROGEN)

Coffee Break (10:30-10:45)

1. SESSION- SOLAR (10:45-12:00)			2. SESSION- ENVIRONMENT (10:45-12:00)		
Session Chair: Dr. Emad Abdelsalam		Room-2	Session Chair: Prof. Dr. Nuray Ateş		Room-1
10:45-11:00	Modeling Of A Solar Absorption Cooling System For Semi-Arid Climate Of Morocco	Sara El Hassani	10:45-11:00	Effect Of Natural Organic Matter (Nom) On Adsorptive Removal Of Arsenic By Low Cost Adsorbents	Seda Tözüm Akgül
11:00-11:15	PV Stand-Alone System For Remote Areas	Mohamed Almihat	11:00-11:15	Mxenes Nanomaterials For Energy And Environmental Applications	Muhammad Suleman Tahir
11:15-11:30	The Effect Of Boron Addition To The Al-B Alloy Produced By Casting Method On Hydrogen Production	Mehmet Fatih KAYA	11:15-11:30	A Facile Approach For Highly-Stable Inorganic Perovskite Absorbers: Ionic Liquid Additive	Erdi Akman
11:30-11:45	PVT Training Module For Vocational Secondary Education: A Pilot Application	Ercan Zengin	11:30-11:45	Improving The Reliability And Durability Of The Cement Stone On The Casing String	Suleymanov Eldar
11:45-12:00	Solar-Powered Charging Station Design For Scooters Towards Zero Carbon Emission	İlgin Gökaşar	11:45-12:00	Environment Management And Climate Change	Ayah Hekmat Helal
LUNCH					

PLENARY SPEECH (13:00-13:40)**PROF. DR. ABDUL-GHANI OLABI****PLENARY SPEECH (13:45-14:25)****PROF. DR. HRRIDAYSH DESHPANDE****Coffee Break (14:30-14:45)**

3. SESSION- WIND (14:45-16:00) Session Chair: Dr. Farooq Sher https://meeting.mkcelikbas.com/b/hen-jgs-pvz-hmq Room-2			4. SESSION- THERMAL (14:45-16:00) Session Chair: Prof. Dr. Fares Almomani https://meeting.mkcelikbas.com/b/can-22g-m4o-ym8 Room-1		
14:45-15:00	Small Hydropower Development In 2021 Of Türkiye	Alaeddin Bobat	14:45-15:00	Assessment Of Theoretical & Technical Biomass Potential From Agricultural Residues Using Geospatial Technology In India	Jagriti Dabas
15:00-15:15	Hydroelectric Power Overview In 2021 Of Türkiye	Alaeddin Bobat	15:00-15:15	Sio2 Enriched Lubricant Oil For Reduced Frictional Response In Sliding Tribo-Pairs	Ali Usman
15:15-15:30	Towards Implementing A Smart Grid In Jordan: Designing And Assessing The Potential For A Microgrid In King Hussein Business Park	Hamza Alnawafah	15:15-15:30	Numerical Investigation Of The Effects Of The Degree Of Stenosis And Change In Radius On The Arterial Blood Flow	Bugra Sarper
15:30-15:45	Binary Grey Wolf Optimization Algorithm for the Optimal Placement of Wind Turbines	Muhammet Çelik	15:30-15:45	The Use Of Trnsys As A Simulation Tool For The Domestic Hot Water Performance Evaluations Of The Combi Boilers	Okan Gök
15:45-16:00	Design Of Helical Rotor Savonius Wind Turbine	H. Siddique	15:45-16:00	Effect Of Acid Treatment And Carbonization On The Adsorption Of 4-Nitrophenol Using Activated Carbon Obtained From Prosopis Juliflora: Optimization, Isotherm, And Thermodynamic Studies	Rajesh Choudhary

Coffee Break (16:00-16:15)

KEYNOTE SPEECH (16:15-16:45)**PROF.DR. HAMID MUKHTAR****(Green synthesis of Biodiesel through Lipase Mediated Transesterification of non-conventional oils and Exhaust)****<https://meeting.mkcelikbas.com/b/ese-fue-93d-mla>**

5. SESSION- HYDROGEN (16:45-18:15) Session Chair: Prof. Dr. Gamze Genç https://meeting.mkcelikbas.com/b/hen-xxs-vpm-4bg			6. SESSION- COMBUSTION (16:45-18:15) Session Chair: Prof. Dr. Hamid Mukhtar https://meeting.mkcelikbas.com/b/can-tfz-zif-aft		
		Room-1			Room-2
16:45-17:00	Hydrogen-Fueled Internal Combustion Engine: A Review	Husnain Siddique	16:45-17:00	Multi-Objective Optimisation Of Engine Characteristics Of A RCCI Diesel Engine Powered With Jatropa/1-Pentanol Blend: A Taguchi-Fuzzy Approach	Santhosh Kumar Gugulothu
17:00-17:15	Development Of Advanced Metallic Hydrides For Hydrogen Storage And Energy Conversion	Laasri Said	17:00-17:15	Investigation Of The Effect Of Colorless Distributed Combustion On Flame Temperature And Emissions In A Mini Gas Turbine Engine	Hüsamettin Alperen Alabaş
17:15-17:30	Synthesis Of Waste Eggshell-Derived Au/Co/Zn/Eggshell Nanocomposites For Efficient Hydrogen Production From Nabh ₄ Methanolysis	Mesut Bekirogullar	17:15-17:30	The Effect Of Operating A Diesel Engine Using Diesel Fuel And Biofuel At Different Engine Loads On Energy Efficiency Values	Ibrahim Yildiz
17:30-17:45	Hydrogen Production Through The Steam Reforming Of Acetic Acid Using Kaolin Supported Ni And Ni-Co Catalysts	Ecem Ceylan	17:30-17:45	Deep Eutectic Solvent Based Super Dielectric Electrolyte For Electrochemical Double Layer Capacitors	Ekrem Akif Yiğit
17:45-18:00	Experimental Investigation of A High Temperature Electrochemical Hydrogen Compressor	Gizem Nur Bulanık Durmuş	17:45-18:00	Optimisation of A Salt Gradient Solar Pond for Air Heating Applications	Sunirmit Verma
18:00-18:15	Modeling And Evaluating CSP Plant Performance In Morocco: A Parametric Study	Sara El Hassani	18:00-18:15	Investigation Of Performance A Hybrid Nanofluid In An Implementation On Pv/T System	İbrahim İlker YURTTAŞ

02-09-2022 Friday

PLENARY SPEECH (09.30-10.00)

PROF.DR. YUPING WU

(R & D on Electrochemical Energy Storage Systems with High Safety)

PLENARY SPEECH (10.10-10.50)

PROF.DR. JOHN W. SHEFFIELD

(The Role of Green Hydrogen in the Race to Zero)

Coffee Break (11:00-11:15)

7. SESSION- SOLAR (11:15-12:30)

Session Chair: Dr. Aliya Fazal

Room-1

8. SESSION- ENVIRONMENT (11:15-12:30)

Session Chair: Prof. Dr. Hikmat S. Hilal

Room-2

11:15-11:30	Energy and environmental analysis of a solar absorption chiller	Zeinab Rezvani	11:15-11:30	A Parametric Study On Entransy-Based Environmental And Life Cycle Cost Analysis	Uğur Akbulut
11:30-11:45	Electric Field Assisted Biomass-Based Electrode Material Production For Supercapacitor Applications	Tülin Avcı Hansu	11:30-11:45	The Carbon Footprint Of Sugar Production In Cuba. Case Report: “Melanio Hernández” Sugar Mill	Mario Reinoso Pérez
11:45-12:00	Design Of A Sustainable Combined System With Solar And Geothermal Energy For Power Generation	Fatih Yılmaz	11:45-12:00	EVALUATION OF PHOSPHATE RECOVERY FROM TREATED MUNICIPAL WASTEWATER BY FORWARD OSMOSIS	Özlem Özcan
12:00-12:15	Modeling And Analysis Of The Combined Power Plant With Teg For Hydrogen Generation	Fatih Yılmaz	12:00-12:15	Optimization Of Distillation Column In Cryogenic Distillation Process For CO2 Capture And Application Of Machine Learning Algorithms	Nandakishora Y
12:15-12:30	Stacked Collector Solar Chimney Power Plant For Power And Distilled Water Generation: An Innovative Design	Dana Ibrahim	12:15-12:30	Adsorptive Removal Of Acetochlor With Original/Modified Activated Carbons	Betül Aykut Şenel

LUNCH

KEYNOTE SPEECH (13:15-13:55)
PROF.DR. BARBARA TOMASZEWSKA
(Environmental Protection and Hydrogeochemistry)

KEYNOTE SPEECH (14:00-14:40)
PROF.DR. ÜLKÜ YETİŞ
(Wastewater and Hazardous Waste Treatment Systems)

Coffee Break (14:45-15:00)

9. SESSION-KAYSERI (15:00-16:15)			10. SESSION- FUEL CELL (15:00-16:15)		
Session Chair: Prof. Dr. Vijayakumar Varadarajan		Room-1	Session Chair: Prof. Dr. Nesrin Demir Kayataş		Room-2
15:00-15:15	Thrust Measurements Of Aerospike Nozzles Used As Control Surface Equipment On A Reusable Vertical Takeoff Vertical Landing Rocket	Hürrem Akbıyık	15:00-15:15	Experimental Evaluation Of A 1 Kw Proton Exchange Membrane (PEM) Fuel Cell With Resistive, DC And AC Loads	Satya Sekhar Bhogilla
15:15-15:30	ZnO Nanoparticle Photocatalysts For Complete Mineralization of Gram-Positive & Gram-Negative Bacteria in Water	Hikmat S. Hilal	15:15-15:30	Thermoeconomic Optimization Of A Gas Turbine-Solid Oxide Fuel Cell Power And Heating Cogeneration System	Leyla Khani
15:30-15:45	Supported Cu Nanoparticle Electrocatalysts For Water Denitration Processes	Hikmat S. Hilal	15:30-15:45	Thermodynamic Analysis Of A Supercritical CO2 Brayton Cycle Integrated With Solid Oxide Fuel Cell	Semanur Beygul
15:45-16:00	Türkiye' Status In Utilizing Solar Energy: Has Türkiye Caught Up With The Trends In The Use Of Solar Energy In The World?	Fethi Şermet	15:45-16:00	Surface Modification And N-Doped Dual-Modified Carbon Black Supported Alloy Catalyst For PEMFC	Zhaoheng Wu
16:00-16:15	Preparation Of Thermoresponsive, Poly (N-Isopropylacrylamide-Co-MMA) With Enhanced Thermal Properties For Glazed Window Panel Application	Arunachalam Soubamaniyan	16:00-16:15	Physicochemical Study Of Membrane Cellulose For Stable Proton-Conducting Membrane Fuel Cell	Khaled Charradi
16:15-16:30	Renewable Hydrogen Production via Methyl Ester Generated from Microalgae-Oil	Vildan AKER	16:15-16:30	Tracking The Optimal Point Of A Photovoltaic Module By Fuzzy Logic Controlling A DC / DC Buck Converter	Mazouz Nacera

Coffee Break (16:30-16:45)

PLENARY SPEECH (16:30-17:00)
PROF. DR. ABDUL-GHANI OLABI

11. SESSION- BIO (16:45-18:15)			12. SESSION- ERCIYES (16:45-18:15)		
Session Chair: Dr. Abdulaziz Atabani		Room-2	Session Chair: Prof. Dr. Bilge Albayrak Çeper		Room-1
17:00-17:15	A Review On Design Of Sugar Bagasse Biogas Through AD Process	Muhammad Taha	17:00-17:15	Effect Of Diesel-Ethanol-Butanol-Nanoparticle Blend Fuel On Cycle-By-Cycle Variations Under Dual-Fuel Mode With Hydrogen Addition	M.Raşit Atelge
17:15-17:30	BIOGAS PRODUCTION POTENTIAL OF ANFCMBR TREATING CONCENTRATED MUNICIPAL WASTEWATER AT ROOM TEMPERATURE AND 24 H HRT	Özlem Özcan	17:15-17:30	Impact Of Climate Change On The Fluctuations Of Selected Glaciers In Northern Himalayas And Karakoram Pakistan By Using Geospatial Techniques	Sajid Rashid Ahmad
17:30-17:45	Design And Application Of Cu-Doped Wse2 Counter Electrodes With Single Layer Graphene-Supported For Highly Efficient Dye-Sensitized Solar Cells	Erdi Akman	17:30-17:45	Environmental Problems Of Burdur Lake Basin: A Systematic Review	Mehmet Soylu
17:45-18:00	Phosphorus Removal And Recovery From Industrial Wastewater Via Innovative Electrokinetic System Enhanced With Calcium Carbonate Addition	Abdelmajeed Adam Lagum	17:45-18:00	Coal Desulfurization Through Synthesized Imidazolium Base Ionic Liquids To Combat Climate Change	Aliya Fazal
18:00-18:15	Simulated Emissions And Fuel Consumption Of Internal Combustion And Hybrid Engine Vehicles In Actual Driving Cycles Of Iğdır Province: A Case Study	Bircan Arslannur	18:00-18:15	Green Synthesis And Characterization Of Porous Biocarbon Materials	Gamze Genç
18:15-18:30	Modeling of Vegetable-Based Oil Modified with nMoS2 for Minimum Quantity Lubrication as a Cutting Fluid during Turning AISI 1040	Raşit Atelge			

03-09-2022 Saturday

KEYNOTE SPEECH (09.30-10.10)

PROF.DR. PIETRO BARTOCCI

(Bioenergy, Carbon Footprinting, Carbon Emissions Reduction Technologies, Green Energy)

KEYNOTE SPEECH (10.15-10.55)

DR.-ING. AHMET LOKURLU

(Energy and Process Engineering)

Coffee Break

13. SESSION- SOLAR (11:15-12:30)

Session Chair: Prof. Dr. Nafiz Kahraman

Room-1

14. SESSION- NANO (11:15-12:30)

Session Chair: Dr. Raşit Atelge

Room-2

11:15-11:30	Nuclear Power Plant Integrated With Solar Chimney Power Plant: An Innovative Approach	Ahmad Sufyan Alshloul	11:15-11:30	Use Of Nanoporous Ceramic Membranes For Carbon Dioxide Capture	Idris Hashim
11:30-11:45	A Study On Flibe-Salt-Cooled Small Modular Nuclear Reactor Integrated Hydrogen Production	Muhammed Emin Topal	11:30-11:45	Boron Functionalised Polyurethane Shell Microcapsules Of N-Octadecane As Flame Retardant Microencapsulated Pcms	Timur Paçacı
11:45-12:00	A Novel Design Of A Hybrid Solar Double Chimney Power Plant For Generating Electricity	Asma Khasawneh	11:45-12:00	Fabrication Of Fe ₃ O ₄ Nanoparticles Decorated With CuO For Selective Gas Sensors	Ahmad Ayesb
12:00-12:15	The Current Situation Of The Photovoltaic Thermal Technology Usage And Its Effect On Economic Development	Hasan Yıldızhan	12:00-12:15	A Short Review On The Moisture Sensors Based On Nanoporous Ceramic, Semiconducting & Polymer Materials	Manju Pandey
12:15-12:30	Design And Construction Of A 17 m ² Scheffler Concentrator With Daily And Seasonal Tracking	Abderrahman Mellalou			

LUNCH

KEYNOTE SPEECH (13:15-13:55)**PROF.DR. M.V.REDDY****(Recent Advances On Materials For Energy Storage And Sustainability)****KEYNOTE SPEECH (14:00-14:40)****PROF.DR. NALAN KABAY****(Integrated Management of Geothermal Fluid by Membrane Processes at Geothermal Heating Center)****Coffee Break (14:45-15:00)****15. SESSION- WIND (15:00-16:15)****Session Chair: Prof. Dr. Sajid Rashid Ahmad****Room-1****16. SESSION- HYDROGEN (15:00-16:15)****Session Chair: Dr. Mehmet Fatih Kaya****Room-2**

15:00-15:15	Application Of Geospatial Techniques For Flood Risk Assessment Of Wind Power Plant In Pakistan	Sajid Rashid Ahmad	15:00-15:15	Investigation Of H2 Generation Parameters By Alkaline Water Electrolysis	Şehnaz Genç
15:15-15:30	Off-Grid Energy Generation And Consumption Review	Khaleeq Tajamal	15:15-15:30	A Self-Sustaining Renewable Energy Driven Hydrogen Refuelling System Utilising A Metal Hydride-Based Compressor	Satya Sekhar Bhogilla
15:30-15:45	A New And Novel Approach Of Integrating Photovoltaic Technology With Cooling Tower	Aya Mousa	15:30-15:45	Evaluation Of Koh/ZnCl ₂ Doped Waste Pistachio Shell Catalyst In Hydrogen Generation	Saliha Özarlan
15:45-16:00	Parametric Investigation Of E-Methanol Production Potential From Geothermal Sources	Selçuk İnaç	15:45-16:00	Green Hydrogen: A Novel Solar Chimney Power Plant Integrated With Electrolysis Station	Asma Khasawneh
16:00-16:15	THE EFFECTS OF A SYNTHETIC JET WITH VARIOUS JET TO PLATE DISTANCES ON IMPINGING JET HEAT TRANSFER	Hürrem Akbıyık	16:00-16:15	Mathematical Modeling And Parameter Optimization Of A High-Temperature Pbi Membrane-Based Electrochemical Hydrogen Compressor With Particle Swarm Optimization Algoritim	Cemil Kuzu

Coffee Break (16:15-16:30)

17. SESSION- BATTERY (16:30-17:45)			18. SESSION- ENERGY (16:30-17:45)		
Session Chair: Dr. Saltuk Buğra Selçuklu		Room-1	Session Chair: Dr. MASOUD TAGHAVI		Room-2
16:30-16:45	Adsorption And Coadsorption Of H And Li On Ag(100) Surface: DFT Studies Including Dispersion Correction	Boungou Cedric Clarfeler	16:30-16:45	A Parametric Study On Trigenation Integrated Ayran Production Plant	Uğur AKBULUT
16:45-17:00	A New Artificial Intelligent-Based Demand Side Management Method For EV Charging Stations	Gökay Bayrak	16:45-17:00	Parametric Study And Multi-Objective Optimisation Of Engine Behaviour Powered On CNG/Biodiesel Dual Fuel Common Rail Direct Injection Engine To Reduce Engine Emission	Santhosh Kumar Gugulothu
17:00-17:15	Evaluation Of The Energy Efficiency Of Different T-Intersection Designs In Connected Autonomous Vehicle Operations	Ilgin Gökaşar	17:00-17:15	Annual Charging Performance Simulation Of A Sensible Heat Thermal Energy Storage Unit In Izmir	Nezir Yağız Çam
17:15-17:30	Investigation Of A New Supercapacitor Electrode Material From Prunus Spinosa Biomass	Tülin Avcı Hansu	17:15-17:30	Urban Landfill Site Biogas: A Review	Muhammad Usman
17:30-17:45	Adsorptive Removal Of Cationic Dyes From Model Aqueous Solutions By Mno2 Its Polymer Composite	Abdul Naeem	17:30-17:45	Thermophysical Characteristics Of Rice Husk-Sand-Cement Composite For Building Thermal Insulation	A.A. Djossou
CLOSING SPEECH					
PROF. DR. SELAHADDİN ORHAN AKANSU					