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CONFERENCE

06-08 / DECEMBER / 2024 / KAYSERİ / TÜRKİYE



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-OPENING CEREMONY-

DATE: 06.12.2024 / TSI TIME-09⁰⁰ : 09³⁰

VENUE: FACULTY OF ENGINEERING, ERCIYES UNIVERSITY

MODERATOR: ASSIST. PROF. SALTUK BUĞRA SELÇUKLU

Prof. Dr. Mustafa Serdar GENÇ

Director of the Energy Conversions Research and Application Center, Erciyes University
HEAD OF CONFERENCE

Prof. Dr. Ahmet Alper ÖNER

Dean of Faculty of Engineering, Erciyes University
HONORARY BOARD MEMBER

Prof. Dr. Oktay ÖZKAN

Vice Rector of Erciyes University
HONORARY BOARD MEMBER

- KEYNOTE SPEECHES-

DATE: 06.12.2024 / TSI TIME-09⁴⁰ : 10⁴⁰

VENUE: FACULTY OF ENGINEERING, ERCIYES UNIVERSITY

Prof. Dr. Hakkı BALTACI

Institute of Earth & Marine Sciences, Gebze Technical University
"AIR POLLUTION"

Assoc. Prof. Dr. Taner AZGIN

Sustainability Coordinator Erciyes University
"SUSTAINABILITY"

- FLUID MECHANICS WORKSHOP 1-

DATE: 06.12.2024 / TSI TIME-11⁰⁰ : 12⁰⁰

VENUE: FACULTY OF ENGINEERING, ERCIYES UNIVERSITY

ZOOM ID: 833 1287 1999 / PASSCODE: 060708

Mustafa Serdar GENÇ

“CHARACTERIZATION OF LAMINAR SEPARATION BUBBLES ON AIRFOILS IN LOW REYNOLDS NUMBER FLOWS”

İlyas KARASU, Beyza GÖRKEMLİ BAYRAM, Mustafa Serdar GENÇ

“PREDICTION OF LAMINAR SEPARATION BUBBLE LOCATION OVER WIND TURBINE AIRFOILS”

- FLUID MECHANICS WORKSHOP 2-

DATE: 06.12.2024 / TSI TIME-13²⁰ : 14⁵⁰

VENUE: FACULTY OF ENGINEERING, ERCIYES UNIVERSITY

ZOOM ID: 833 1287 1999 / PASSCODE: 060708

Merve AKIN, Muhammet HATEM, Mustafa Serdar GENÇ

“TURBULENT FLOW FORMATION WITH DIFFERENT TURBULENCE GRIDS IN THE WIND TUNNEL: Part I- Numerical Analysis”

Merve AKIN, Sinem KESKİN, Halil HAKAN AÇIKEL, Mustafa Serdar GENÇ

“TURBULENT FLOW FORMATION WITH DIFFERENT TURBULENCE GRIDS IN THE WIND TUNNEL Part II- Experimental Analysis”

Eren ANIL SEZER, Muhammet HATEM, Mustafa Serdar GENÇ

“TURBULENT FLOW ON SYMMETRIC AIRFOIL AT LOW REYNOLDS NUMBERS: Part I-Numerical Analysis”

Meva Yasemin BAŞTUĞ, Zafer İPEKLİ, Halil Hakan AÇIKEL, Mustafa Serdar GENÇ

“TURBULENT FLOW ON SYMMETRIC AIRFOILS AT LOW REYNOLDS NUMBERS: Part II- Experimental Analysis”

Muhammet HATEM, Eren ANIL SEZER, Sinem KESKİN, Mustafa Serdar GENÇ

“THE EFFECT OF THE TURBULENCE ON FLOW OVER CAMBERED AIRFOIL AT DIFFERENT REYNOLDS NUMBERS Part I-Numerical Analysis”

Meva Yasemin BAŞTUĞ, Zafer İPEKLİ, Halil Hakan AÇIKEL, Mustafa Serdar GENÇ

“THE EFFECT OF THE TURBULENCE ON FLOW OVER CAMBERED AIRFOIL AT DIFFERENT REYNOLDS NUMBERS Part II- Experimental Analysis”

- ELECTRICITY PRICE FORECASTING WORKSHOP-

DATE: 06.12.2024 / TSI TIME-15⁰⁰: 18⁰⁰

VENUE: FACULTY OF ENGINEERING, ERCIYES UNIVERSITY

ZOOM ID: 833 1287 1999 / PASSCODE: 060708

Assist. Prof. Dr. Saltuk Buğra SELÇUKLU

"MACHINE LEARNING MODELS"

Assoc. Prof. Dr. Sibel ARSLAN

"AUTOMATIC PROGRAMMING MODELS"

Assist. Prof. Dr. Erhan MUĞALOĞLU

"ECONOMETRIC MODELS"

06.12.2023 / In-person Session-1 / TSI Time-14⁰⁰:16³⁰



VENUE: Erciyes University, Faculty of Engineering



HEAD OF SESSION: Asist. Prof. Dr. Halil Hakan AÇIKEL

Authors	Affiliation	Presentation title
Dr. Mithat ŞİMŞEK Dr. Nurullah GÜLTEKİN	Tokat Gaziosmanpaşa University, Türkiye	Studying the Effects of Adding Bronze to Polymer Composite Sliding Bearings for Vehicle Applications on Vibration, Noise, and Friction Coefficient
Dr. Gizem Hazan AKÇAY Prof. Dr. İrfan AR	Muş Alparslan University, Türkiye Gazi University, Türkiye	Domestic Domestic Wastewater Treatment and Electricity Generation Using a PTFE Based Electrode and Nested Cylindrical Dual Chamber Microbial Fuel Cell
Dr. Sevda YETİMAN Assoc. Prof. Dr. Fatma KILIÇ DOKAN Prof. Dr. Mustafa Serdar ÖNSES Prof. Dr. Ertuğrul ŞAHMETLİOĞLU	Erciyes University, Türkiye Kayseri University, Türkiye	Assessment of The Energy Storage Dynamics of Carbon Quantum Dots Embedded Perovskite Calcium Titanate
Seda BELEN Assist. Prof. Dr. Ramazan AYZAZ	Yıldız Technical University, Türkiye	Comparison of Battery Performances Within the Scope of Electrical Load Analysis in Aircraft
Assist. Prof. Dr. Duygu AGHAZADEH	University of Turkish Aeronautical Association, Türkiye	Predictive Modeling of Greenhouse Gas Emissions in Urban Areas Using Machine Learning for Real-Time Mitigation
Assist. Prof. Dr. Ahmet GANI	Kayseri University, Türkiye	Design of Photovoltaic Panel-Fed Boost Converter for Renewable Energy Applications
Assist. Prof. Dr. Ahmet GANI	Kayseri University, Türkiye	Design of Boost Converter for Sustainable Energy Applications
Lect. İlker KAYALI Assoc. Prof. Dr. Gülşah ELDEN	Kapadokya University, Türkiye Erciyes University, Türkiye	A Numerical Study of a Vanadium-Redox Flow Battery with Several Flow Field Channel Geometries
Mourad Kaddiri Bilal El hadoui	Sultan Moulay Slimane University, Morocco	Effect of The Magnetic Field on the Heat Transfer Enhancement of Nanofluids in Rectangular Cavities

06.12.2024 / In-person Session-2 / TSI Time-14⁰⁰:16³⁰



VENUE: Erciyes University, Faculty of Engineering



HEAD OF SESSION: Prof. Dr. Gamze GENÇ

Authors	Affiliation	Presentation title
Edanur KILIÇ Assist. Prof. Dr. Erhan MUĞALOĞLU Assist. Prof. Dr. Saltuk Buğra SELÇUKLU Hazar KESKİN	Erciyes University, Türkiye Independent Researcher in Economics, Türkiye	Impact of Renewable Energy Integration on Competition and Price Dynamics in the Turkish Electricity Market
Mert ÖZAY Prof. Dr. Ercan ŞENYİĞİT	Erciyes University, Türkiye	Supply Chain Evaluation with Multi-Criteria Decision- Making Based on ESG (Environmental, Social and Governance) Parameters
Res. Assist. Büşra YILMAZ-ÜSTÜNER Prof. Dr. Süleyman BOLAT Assoc. Prof. Dr. Murat BELKE	Aksaray University, Türkiye Burdur Mehmet Akif Ersoy University, Türkiye	Renewable Energy and Carbon Taxes: A Bibliometric Analysis
Dr. Seher KADIOĞLU	Istanbul Commerce University, Türkiye	Comparative Analysis of Traditional Ratios and Cash Flow Ratios in Measuring the Financial Performance of Energy Sector Companies Listed on Borsa Istanbul
Prof. Dr. Gamze GENÇ	Erciyes University, Türkiye	Solar Energy Based Hydrogen Production
Koray Alp ARSLAN Rafet Kerem ALBAYRAK Prof. Dr. Gamze GENÇ	Erciyes University, Türkiye	The effect of rooftop solar power plants in reducing the carbon footprint of factories: The case of the Aluminum and Furniture Sector
Assist. Prof. Dr. Yusuf TEKİN Mehmet YALÇIN	Erciyes University, Türkiye	Design and Numerical Investigation of a Domestic Midi Oven with Improved Thermal Performance
Assist. Prof. Dr. Yusuf TEKİN Abakar Abakar ABAKAR	Erciyes University, Türkiye	Design and Performance Analysis of Solar Electricity Generation System with Organic Rankine Cycle for N'djamena- Chad
Assist. Prof. Dr. Fatma ŞENER FİDAN Assist. Prof. Dr. Sena AYDOĞAN	Abdullah Gül University, Türkiye Gazi University, Türkiye	Clean Clothes, Clean Purchasing: A Sustainable Approach to Buying Washing Machines Using CODAS Multi-Criteria Determination

07.12.2024 / Hall-1 / Online Session-1 / TSI Time - 13⁰⁰:15⁰⁰



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HEAD OF SESSION: Assoc. Prof. Dr. Mehmet ZİLE

Authors	Affiliation	Presentation title
Lect. Kadir AYDIN Assoc. Prof. Dr. Hasan Hüseyin ÇOBAN	Ardahan University, Türkiye Bartın University, Türkiye	Optimization and Cost Analysis of Hybrid Energy System for a University Campus
Assist. Prof. Dr. Aminu Yusuf Prof. Dr. Sedat BALLIKAYA	İstanbul University- Cerrahpaşa, Türkiye	Boosting Thermoelectric Generator Efficiency with Radiative Cooling Paint and PCM Integration
Assoc. Prof. Dr. Mehmet ZİLE	Gazi University, Türkiye	Optimization of Energy Management in Solar/ Wind Power Stations Using Artificial Intelligence
Assoc. Prof. Dr. Mehmet ZİLE	Gazi University, Türkiye	Test Analysis of Power Transformers with Artificial Intelligence
Mustafa GENÇAY Assoc. Prof. Dr. Altuğ BOZKURT Lect. Dr. Erşan Ömer YÜZER	Yıldız Technical University, Türkiye Hakkari University, Türkiye	Energy Efficiency with Waste Heat Recovery in an Industrial Facility
Res. Assist. Bahadır YÖRÜR Prof. Dr. Nihal ERGİNEL	Kütahya Dumlupınar University, Türkiye	Regional Determination of Social Acceptance Factor of Clean Energy Technologies in Turkey
Assist. Prof. Dr. Shabnam GOLKARIAN Mina GOLKARIAN	Near East University, TRNC Ege University, Türkiye	Exploring the Potential of Spirulina Algae in Green Facades for Sustainable Architecture: A Theoretical Approach for Energy Optimization and Environmental Improvement in Tropical Mediterranean Climates
Lect. Dr. Vuslat SALALI	Isparta University of Applied Sciences, Türkiye	The Impact of Value-Based Land Readjustment Practices on Energy Efficiency from a Sustainability Perspective
Seyran DUMAN	Istanbul University, Türkiye	Sun's Share in the European Union's Renewable Energy Policy: Germany-Turkey Comparative Analysis

07.12.2024 / Hall-2 / Online Session-1 / TSI Time - 13⁰⁰:15⁰⁰



ZOOM ID: 833 1287 1999 / PASSCODE: 060708



HEAD OF SESSION: Prof. Dr. Gamze GENÇ

Authors	Affiliation	Presentation title
Assist. Prof. Dr. Murat ERDEM Assoc. Prof. Dr. Mert GÜRTÜRK	Fırat University, Türkiye	A YEKDEM Assessment for Solar Energy Between 2015-2023
Assist. Prof. Dr. Dilan ALP Azize ACAR	Şırnak University, Türkiye	The Use and Importance of Biopolymers in Solar Cell Production
Prof. Dr. Hatice KANBUR ÇAVUŞ Dr. Caner İLDEŞ Assist. Prof. Dr. Murat ÇAVUŞ Prof. Dr. Recep ŞAHİNGÖZ	Yozgat Bozok University, Türkiye	Investigation of CdTe Schottky Diodes at High Frequencies for Solar Cell Applications
Assist. Prof. Dr. Semih YURTAŞ Assoc. Prof. Dr. Ziya AYDIN	Karamanoğlu Mehmetbey University, Türkiye	Effect of Rosamine Derivative Doping on Organic Solar Cell's Efficiency
Lect. Emre ÖZER Assoc. Prof. Dr. Furkan DINCER	Gaziantep Islam Science and Technology University, Türkiye Kahramanmaraş Sutcu Imam University, Türkiye	Effect of Soiling Loss and Structure Shading Factors on the Performance of Bifacial Panels
Lect. Emre ÖZER Assoc. Prof. Dr. Furkan DINCER	Gaziantep Islam Science and Technology University, Türkiye Kahramanmaraş Sutcu Imam University, Türkiye	Peak Shaving Modeling in Solar Power Plants with PVSYS
Lect. Selin Rüya ÇAKIR Assoc. Prof. Dr. Ümit Turgay ARPACIOĞLU	Istanbul Gelisim University, Türkiye Mimar Sinan Fine Arts University, Türkiye	An Evaluation of the Application of Photobioreactors in Buildings
Ahmet Eren AKKOÇ Assist. Prof. Dr. Müjdat ÖZTÜRK Prof. Dr. Gamze GENÇ	Erciyes University, Türkiye Kırşehir Ahi Evran University, Türkiye	Energy Analysis of PV/T and Fuel Cell Supported Hybrid Water Heating System in Different Climatic Conditions of Turkey

07.12.2024 / Hall-3 / Online Session-1 / TSI Time - 13⁰⁰:15⁰⁰



ZOOM ID: 833 1287 1999 / PASSCODE: 060708



HEAD OF SESSION: Dr. Ramona Birau

Authors	Affiliation	Presentation title
Virgil Popescu Dr. Ramona Birau	University of Craiova, Romania	The impact of Climate Finance on Economic Growth and Sustainable Development in the Case of Emerging Countries
Assoc. Prof. Dr. Luljeta Sadiku	International Balkan University, North Macedonia	Renewable Energy Transition and Resource Efficiency: Evidence from Companies in North Macedonia
Assoc. Prof. Dr. Luljeta Sadiku	International Balkan University, North Macedonia	Relationship Between Environmental Related Technologies and Production-Based CO ₂ Emissions In OECD Countries
Aashish Dhiman	Swami Vivekanand Subharti University, India	Strategic Innovations in Energy Efficiency Enhance Business Performance
Assist. Prof. Dr. Amritha LJ	SRM University, India	Governance Trends in Energy Finance: Challenges and Opportunities for Policy Fulfillment
Prof. Dr. Abdul Rauf Bhatti	Government College University, Pakistan	Renewables Global Status: Market & Industry Trends
Nehayatul Najwa Hendri Hermawan ADINUGRAHA	UIN K.H. Abdurrahman Wahid Pekalongan, Indonesia	Energy as an Economic Driver Exploring the Impact of Green Technologies on Global Markets
Sarah Essam Hasan shubbar Hussein jaafar Marwah Abdulkareem Mahmood Prof. Dr. Karrar Abdullellah Azeez	University of Kufa, Irak	Does Energy Utilization Affect the Degree of Sticky Costs? An Investigation of Energy Changes
Assist. Prof. Dr. Kamaljit Singh Assist. Prof. Dr. Pawan Kumar Assist. Prof. Dr. Simmi Vashishtha Prof. (Dr.) Satish Menon	SRM University, India Delhi Pharmaceutical Sciences and Research University, India	Determinants of Consumer Perception in Haryana's Electricity Sector: A Multi-Sectoral Analysis

07.12.2024 / Hall-4 / Online Session-1 / TSI Time - 13⁰⁰:15⁰⁰



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HEAD OF SESSION: Sanjana Sajan Gharat

Authors	Affiliation	Presentation title
R. Vidhyalakshmi K. Rajaganapathy	Bharath Institute of Higher Education and Research, India	Exploring the Foundations of Energy: Principles, Sources, and Future Perspectives
Nwafor, Lilian C. Dr. Kanu, Abednego C. Yusuf, Aishat A.	People's Comprehensive Academy, Nigeria University of Ilorin, Nigeria	Exploring Sustainable Energy Solution beyond Fossil Fuels: Mitigating Energy Crisis in Nigeria
Kajal Singh	VIT Bhopal University, India	Energy Efficiency
Kata Vijay Kumar	VIT AP University, India	Beyond Cooling: Rethinking Energy Efficiency in Data Centers Naturally
Prof. Dr. Pooja Sharma Vikas Sharma	Barkatullah University Bhopal, India VIT Bhopal University, India	Energizing Intelligence: Addressing Energy Challenges in AI and Stock Market Computations
Sanjana Sajan Gharat	VIT Bhopal University, India	Navigating the Energy Transition: Innovations, Challenges, and Pathways to Sustainability

07.12.2024 / Hall-5 / Online Session-1 / TSI Time - 13⁰⁰:15⁰⁰



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HEAD OF SESSION: Assoc. Prof. Dr. C. Vijai

Authors	Affiliation	Presentation title
Adel Deliou Khmissi Belkaid Meriem Dehbi Abdelkader Fidjah	University of Med Seddik Benyahia (UMSB of Jijel), Algeria University of Djelfa, Algeria	Study of the Performance of a solar still
Faten BELARBI	University of Mostaganem, Algeria	Photovoltaic performance in CZTS solar cells: effects of various parameters by simulation study
Zineb Benbouzid Mohammed Ridha Benzidane Noureddine Hassini Faten Belarbi	Abdelhamid Ibn Badis University- Mostaganem, Algeria University of Mostaganem, Algeria	Effect of active layer thickness on CIGS solar cell performance
Assoc. Prof. Dr. C. Vijai	Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, India	Economic Benefits and Environmental Trade-offs of Solar Energy Systems
Tasawar IQBAL Sidra ALTAF	University of Agriculture Faisalabad, Pakistan	Exploring Solar Energy Benefits and Potential Risks for Human and Animal Health
Rajaa Diany Mohamed El idrissi Mohammed Salah Abdessamad Tounsi	Sultan Moulay Slimane University, Morocco Chouaïb Doukkali University, Morocco	Using organic dye sensitizers based on quinoxaline to improve the performance of dye-sensitized solar cells
Dr. Ahmed Shawky	Central Metallurgical R&D Institute, Egypt	Nanostructured Carbon Allotropes for Sustainable Perovskite-based Solar Cells
Dr. Abderrahim ZEMMIT Abdelouaoud LOUKRIZ Riyadh ROUABHI Khaled BELHOUCHE	University of M'sila, Algeria University of Science and Technology Houari Boumediene, Algeria	An off-grid photovoltaic Brushless Motor irrigation system with intelligent MPPT algorithm
Archana Mishra Jyoti Pandey	Vindhya Institute of Management and Science, India	Solar Energy: Technology Used, Future Aspect, Benefits

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HEAD OF SESSION: Assist. Prof. Dr. Melike AKTAŞ BOZKURT

Authors	Affiliation	Presentation title
Prof. Dr. Meltem KUTLU GÜRSEL	University of Dokuz Eylül, Türkiye	The Concept of Renewable Energy Resource Area in Terms of Administrative Law
Assist. Prof. Dr. Melike AKTAŞ BOZKURT Assoc. Prof. Dr. İhsan Erdem KAYRAL	OSTİM Technical University, Türkiye Başkent University, Türkiye	Assessing Price Bubbles in Clean Energy Commodities: Evidence from COVID-19 and the Russia-Ukraine Conflict
Assist. Prof. Dr. Soner HAMZAÇEBİ	Trabzon University, Türkiye	China's Nuclear Energy Integration: The Role of Nuclear Power in Long-Term Energy Transition Plans
Assist. Prof. Dr. Fatih Volkan AYYILDIZ Assoc. Prof. Dr. Güller ŞAHİN	Ardahan University, Türkiye Kütahya Health Sciences University, Türkiye	A Systematic Compilation of the Material Kuznets Curve
Mehmet Mustafa DENİZ Assist. Prof. Dr. Mehtap BULUT DENİZ	Tunceli University, Türkiye İnönü University, Türkiye	Renewable Energy (Solar and Wind Energy) and Accounting Dimension
Assist. Prof. Dr. Mehtap BULUT DENİZ Mehmet Mustafa DENİZ	İnönü University, Türkiye Tunceli University, Türkiye	Renewable Energy Production in Turkey and Evaluation of Financial Statements of a Company Opinioning in this Field in Terms of IAS 700 Forming an Opinion and Reporting on Financial Statements Standard
Lect. Dr. Fatih AKIN Lect. Dr. Selin DİNÇER	Erzincan Binali Yıldırım University, Türkiye Kırıkkale University, Türkiye	The Impact of Energy Policy Uncertainty on Economic Growth: Panel Data Analysis on Selected EU Countries
Dr. Ferhat ARI	Bingöl University, Türkiye	Discussing the Relationship Between Energy Poverty and Human Rights in Türkiye's Energy Policy: The Case of Coal Subsidy
Dr. Ferhat ARI	Bingöl University, Türkiye	Analysis of Legal Recognition of the Right to Access Energy in Türkiye

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HEAD OF SESSION: Prof. Dr. Gamze GENÇ

Authors	Affiliation	Presentation title
Assoc. Pro. Dr. Mehmet BÜYÜK Lect. Ömer BERBER Assoc. Prof. Dr. Necdet Sinan ÖZBEK Assoc. Prof. Dr. Mustafa İNCİ	Adıyaman University, Türkiye İskenderun Technical University, Türkiye Adana Alparslan Türkeş Science and Technology University, Türkiye University of California, USA	Performance Analysis of High-Gain Quadratic Buck-Boost Converter for Electric Vehicle Applications
Sezin KARAOĞLAN Assoc. Prof. Dr. Pınar ÖZKURT	Tarsus University, Türkiye	A Literature Review on the Environmental Impact of Using Electric Vehicles in Transportation
Res. Assist. Sevgi SAMYELİ Assist. Prof. Dr. Ahmet DOĞAN Prof. Dr. Mustafa ALÇI	Erciyes University, Türkiye Nuh Naci Yazgan University, Türkiye	Improvement of Voltage Profiles in Electric Power Systems with BESS Integration Using GWO Algorithm
Assist. Prof. Dr. Fatih SERTTAŞ	Afyon Kocatepe University, Türkiye	Short-Term Electricity Load Forecasting Using Artificial Neural Networks
Betül Sena ÇAĞLAR Prof. Dr. Devrim AKGÜN	Sakarya University, Türkiye	Anomaly Detection in Industrial Machines Using Explainable AI and Acoustic Signals
Assist. Prof. Dr. Netice DUMAN Prof. Dr. Halil İbrahim ACAR	Sivas Cumhuriyet University, Türkiye	Design and Simulation of Acoustically Driven Laboratory Scale Thermoacoustic Refrigerator
Dila EKICI Prof. Dr. Gamze GENÇ	Erciyes University, Türkiye	A Research on the Carbon Emission Reduction for the A-Building in Erciyes Engineering Faculty
Sevde ERTÜRK ÇETİNKAYA Muhammet ÇELİK Prof. Dr. Gamze GENÇ	Erciyes University, Türkiye	Parameter Sensitivity Analysis for Electrochemical Performance of A Sodium-Ion Battery

07.12.2024 / Hall-3 / Online Session-2 / TSI Time - 15³⁰:17³⁰



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HEAD OF SESSION: Prof. Dr. Faiz Muhammad Shaikh

Authors	Affiliation	Presentation title
Ephesus O. Fatunmbi	Federal Polytechnic, Nigeria	Thermal Migration and Haphazard Motion of Williamson Hybridized Nanofluid Tiny Particles for Convective Cooling Cylinder
Fowotade, S. A. Umar, A. A. Murtala Y. D. Haruna D. A. Hafsat, U. K.	Hussaini Adamu Federal Polytechnic, Nigeria	Physicochemical Analysis of Spent Lube Oil for Automobiles and its Impact on Energy Consumption
Thomas, Ekaobong Akan	Akwa Ibom State Polytechnic, Nigeria	Assessing the Policies and Programs Initiated to Promote the Utilization of Compressed Natural Gas in Nigeria
Prof. Dr. Faiz Muhammad Shaikh Rasool Bux Junejo Saeed Ahmed Muhammadi Muhammad Zafar Wassan Syed Mujeeb Hyder Shah Syed Mehtab Ali Shah	University of Larkano, Pakistan Agri.Extension- Government of Sindh Auaid Awam Larkana, Pakistan	Energy Crisis in Pakistan and strategies to develop solar energy system in Pakistan
Mrutyunjaya Muduli Kunjabihari Swain Murthy Cherukuri	PWC Accelerator, India NIST University, India	Reliability Enhancement of Power System Using Phasor Measurement Units
Zineb MOUJOD Abdeslam EL BOUARI Omar TANANE	Hassan II University of Casablanca, Morocco	Elaboration of Eco-friendly and Cost-Effective Geopolymer Foams Using Combined Saponification/Peroxide Route for Thermal Insulation Applications
Mustafa Ozan ÖZKÖK Rüştü AKAY	Erciyes University, Türkiye	Implementation of Hybrid Deep Learning Architectures for Aircraft Engine Predictive Maintenance

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HEAD OF SESSION: Faisal Nazir

Authors	Affiliation	Presentation title
Faisal Nazir	University of Agriculture, Pakistan	Production and Characterization of Carbon Nanotubes from Biochar Under Microwave Irradiation
Mohanapriya. P Assoc. Prof. Dr. Chamundeeswari. M	St. Joseph's College of Engineering, India	Integrative Approach Towards CO2 Sequester from Plastic Waste Microbial Treatment Using Microalgae- an Era of Next Generation Bioenergy Resource
S. Dahri A. Jabar L. Bahmad L. B. Drissi R. Ahl Laamara	Mohammed V University in Rabat, Morocco Hassan II University of Casablanca, Morocco	First principles investigation of structural, elastic, thermoelectric, electronic and optical properties XH ₃ (X=Ac, La) for hydrogen storage
Aminu Ibrahim bello Yahaya Riko Yunusa	Umaru Musa Yaradua University Katsina, Nigeria	Biohydrogen for Renewable Energy in Nigeria: Emerging Trends and Innovations
Nworah Florence N Jisike Oluchukwu F Eje Ozoemena E Igwebuike Nancy C	University of Nigeria, Nigeria	Microbial Powerhouses: Unlocking the Potentials of Biofuels through Micro-organisms
ADJOU DJ Abdellatif SMAOUNE Ghiles	University Center of Tipaza, Algeria Laboratory of Dynamics and Biodiversity, Algeria	Valorization of the Algal Biomass of Dunaliella Salina From The Bethioua Salt Flats (Algeria)
Daikwo S. Amuna O.T. Simon V.O. Akowe N.A.	Federal University Lokoja, Nigeria	Comparative Production of Biogas from Cow Dung and Poultry Droppings
Eshkulov Nuriddin Potes Tatyana Xayitov Fayozjon	Jizzakh Polytechnic Institute, Uzbekistan Belarusian National Technical University, Belarus	Use of Energy-Saving Building Materials in the Energy Sector
Bate, Garba Barde	Federal University Dutse, Nigeria	Application of Urea and Poultry Dung In Enhancing Anaerobic Digestion and Biogas Production From Sweet Sorghum and Maize Straw

07.12.2024 / Hall-5 / Online Session-2 / TSI Time - 15³⁰:17³⁰



ZOOM ID: 833 1287 1999 / PASSCODE: 060708



HEAD OF SESSION: Prof. Dr. Farid B. Chaaban

Authors	Affiliation	Presentation title
Chaima Gherari Farid Berrezzek Khaled Khelil	University of Souk ahras, Algeria	Current Sensors Faults Detection and Isolation of DFIG for Wind Turbine based on generalized observer scheme (GOS)
Siya Swarnima Evangeline Christina	VIT Bhopal University, India	Microbial Fuel Cells: Innovations in Sustainable Energy and Wastewater Treatment
Laxmi Vandana Ujjal Dey Subhasis Mahata Sandipan Mallik	Biju Patnaik University of Technology, India NIST University, India	Low-Cost Production of Textured Flexible Solar Cells Using Additive Manufacturing Techniques
Subhasish Das Rani Nayak Aswi Rani Sahu Sandipan Mallik	NIST University, Berhampur, India	Improved Light Harvesting in ZnO/Se _{1-x} Te _x Solar Cells via ZnO Nanorods in-corporation
Res. Assist. Mohamad Y. Mawlawi Prof. Dr. Farid B. Chaaban	American university of Beirut, Lebanon	Feasibility of PV Allocation Options
Artūras TRUKŠINAS	Lithuanian Energy Institute, Lithuania	Methodology for Ranking Important and Critical Power Transmission Lines
Anas Muazu Abdullahi Haruna Abubakar Danyaya Mansur Bala Sufyan	Federal Polytechnic Daura, Nigeria	Exploring Sustainable Energy: Biodiesel Production from Soybeans as a Viable Alternative to Fossil Fuels
Riyadh ROUABHI Salim DJERIOU Noureddine CHAMI Eloualid ZOUGGAR	Mohamed Boudiaf University of M'sil, Algeria university of formation continue dely brahim, Algeria	A new Maximum Power Extraction (MPPT) technique applied to a wind turbine

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HEAD OF SESSION: Assist. Prof. İbrahim YILMAZ

Authors	Affiliation	Presentation title
Assist. Prof. İbrahim YILMAZ Dr. Nihan CAGLAYAN Ahmet Süha HANCIOĞLU	Ankara Yıldırım Beyazıt University, Türkiye Kırşehir Ahi Evran University, Türkiye	Evaluation of Hydrogen Energy Storage Risks: An Integrated Fuzzy Entropy and TOPSIS Approach for Sustainable Energy Supply
Dr. Nihan CAGLAYAN Assist. Prof. İbrahim YILMAZ Ahmet Süha HANCIOĞLU	Kırşehir Ahi Evran University, Türkiye Ankara Yıldırım Beyazıt University, Türkiye	Selection of the Hydrogen Energy Storage Method Using the Hybrid Fuzzy MCDM Approach: A Pathway to Sustainable Energy Solutions
Assist. Prof. Dr. Aykut Fatih GÜVEN	Yalova University, Türkiye	Cost-Effective and Sustainable Off-Grid Hybrid Energy Systems: Optimizing Hydrogen Integration in Microgrids Using Homer Pro
Assist. Prof. Dr. Aykut Fatih GÜVEN Necat UZUNER Yusuf KAYA Sümeyra İBİŞ	Yalova University, Türkiye	Energy Efficiency And Emission Impacts of Hybrid Energy Systems for Public Buildings: Analyzing the Role of Boilers, Natural Gas, and Gasoline Generators
Res. Assist. Mehmet Enes ERSÖZ Assist. Prof. Dr. Halit ARAT Prof. Dr. Özer AYDIN	Kütahya Dumlupınar, Türkiye	Development and Establishment of the Experimental System Required for the Combustion of Hydrogen and Natural Gas Mixtures
Res. Assist. Mehmet Enes ERSÖZ Assist. Prof. Dr. Halit ARAT	Kütahya Dumlupınar, Türkiye	Economical Assesment of Heating a House with Different Systems in Kütahya
Assoc. Prof. Dr. Sertaç HOPOĞLU Res. Assist. Gözde GÖKGÖZ ÇORUK	İskenderun Technical University, Türkiye	The Importance of Hydrogen in Meeting Clean Energy Needs
Assist. Prof. Dr. Ayşe Nuray CANAT	Istanbul Sabahattin Zaim University, Türkiye	Green Ammonia
Assist. Prof. Dr. Mahmut Suat DELİBALTA	Niğde Ömer Halisdemir University, Türkiye	Current Situation Analysis of the Primary Energy Sources Involved in the Socio-Economic Development of Turkey

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HEAD OF SESSION: Prof. Dr. Mustafa Serdar GENÇ

Authors	Affiliation	Presentation title
Assoc. Prof. Dr. Halil ŞENOL Assist. Prof. Dr. Emre Aşkın ELİBOL Assoc. Prof. Dr. Halil ÇOLAK	Giresun University, Türkiye	Forecasting Wind with Machine Learning: 60-Month Analysis of Turkey's Wind Energy Production with XGBoost
Assoc. Prof. Dr. Halil ŞENOL Emre ÇOLAK	Giresun University, Türkiye	The Future of Türkiye's Electricity Generation with Machine Learning: Comparative Analysis of ANN and ARIMA Models
Assist. Prof. Dr. Zeynep H. OZKUL BIRGOREN Yavuz Selim DEMIREL	Ankara Yıldırım Beyazıt University, Türkiye	Foundations of Offshore Wind Farms: Historical Developments and Future Outlook
Res. Assist. Tekmile CÜREBAL Prof. Dr. Yücel ÖZMEN	Karadeniz Technical University, Türkiye	Numerical Investigation of the Impact of Lift-Up Building Designs with Different Core Numbers on Pedestrian-Level Wind Environment
Emir ALACA Assist. Prof. Dr. Seçil VARBAK NEŞE	Marmara University, Türkiye	Design of Permanent Magnet Synchronous Generator for Wind Power Plants and Increasing its Efficiency with Genetic Algorithm
Ali Onur ÇOŞKUN Sinem KESKİN Mustafa Serdar GENÇ	Erciyes University, Türkiye	Thermal and Flow of a Vacuum Tube Solar Collector Using Computational Methods
Koray Alp ARSLAN Rafet Kerem ALBAYRAK Sinem KESKİN Mustafa Serdar GENÇ	Erciyes University, Türkiye	Integrating Artificial Intelligence and Blockchain for Carbon Emission Management a Case Study at Erciyes University
Nisanur ASLAN Muhammed HATEM Sinem KESKİN Mustafa Serdar GENÇ	Erciyes University, Türkiye	Numerical Investigation of The Effect of Different Shapes Applied to the Trailing Edge of the Naca2415 Airfoil on Aerodynamic Performance
Furkan MAHMUT BERKET Assist. Prof. Dr. Halil Hakan AÇIKEL Prof. Dr. Gamze GENÇ	Erciyes University, Türkiye	Structural Analysis of Turbine Blade at Different Wind Speeds

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HEAD OF SESSION: Prof. Dr. Sanjeev Kumar

Authors	Affiliation	Presentation title
Shayesteh fard Mohammad Motamedi Majid Darvish Motevali Moahammad Hosein Movahedi Mohammad Mehdi	Rode hen Azad university, Iran Islamic Azad University, Iran	Design of Multi-Level Mathematical Model for Radial Supply Networks in Power Systems
Dr. Jogendra Kumar	Govind Ballabh Pant Institute of Engineering and Technology, India	Performance Analysis of Dynamic Manet On-Demand (Dymo) Routing Protocol Using Energy Model
Jyothi A Goudar Thrinethra S N Murugendrappa M V Sharanappa Chapi	B.M.S. College of Engineering, India Mangalore University, India	Balancing Power and Energy: Analysis of Electrical and Electrochemical Techniques
Abderrahim Ait Lhaj Brahim Ouazik Mohamed El Hasnaoui Hassan Chaib	Ibn Tofail University, Morocco	Analytical Study of the Structural, Electronic, and Optical Properties of SnO ₂ Single Crystal Using DFT with the VDW-DF-OB86 Functional
Prof. Dr. Sanjeev Kumar Assist. Prof. Dr. Sowmya Anand	Sri Siddhartha Institute of Technology, India Bapuji Institute of Engineering and Technology, India	Modelling of Hybrid AC/DC Microgrid and power flow analysis
Dhivya C R Arunkumar	Tamil Nadu Agricultural University, India	Digital Solutions for Energy Monitoring in Agri-Supply Chains
Muhammad Dawood Fareed Awan Dr. Ausnain Naveed	University of Azad Jammu & Kashmir, Pakistan	Novel Approach for Assessing Stability Margin Computation of LFC System with EV Aggregators and Incommensurable Delays
Dr. Jogendra Kumar	Govind Ballabh Pant Institute of Engineering and Technology, India	Energy Model-Based Simulation Scenario Design for the LANMAR Routing Protocol Using a Grid Framework

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HEAD OF SESSION: Sabrina Roguai

Authors	Affiliation	Presentation title
Sabrina Roguai	Abbes Laghrour University, Algeria	Investigated Structural, Morphological, and Optical Properties of Ni-Doped SnO ₂ Thin Films Deposited via Pneumatic Spray Pyrolysis for photovoltaic application
Syed Anam Shaheen Abbas Shah Muhammad Shoaib Muhammad Yasin Naz Shazia Shukrullah	University of Agriculture Faisalabad, Pakistan	Synthesis and Characterization of Silica-Chitosan Decorated Magnetic Nanostructure for Wastewater Treatment
Bilal Shah Dicky Muslim Raden Irvan Sophian	Padjadjaran University, Indonesia	Petrological Insights into Landslide Prevention: A Case Study of Indonesia's Volcanic, Sedimentary, and Metamorphic Terrains
Muneeb Hassan	Pakistan Institute of Engineering and technology Multan, Pakistan	Exploring the Mechanics and Applications of Adaptive Smart Polymer Particles and Surfaces
Fatima Ezzahra Atmani Aziz Hasib	Sultan Moulay Slimane University, Morocco	Methylene blue removal from wastewater using activated carbon/ chitosan- based adsorbents : Optimization, Effect of physicochemical properties, kinetic models and thermodynamic parameters
Abdelfateh BENMAKHOUL Rabie MEZOUAR	University Mohamed El Bachir El Ibra-himi, Algeria	Phonon Contribution to Internal Energy, Thermal Expansion Coefficient and Grüneisen Parameter of Cubic Boron Nitride
Hamiani Zohra Berrichi Amina Bachir Redouane	University of Tlemcen, Algeria University of Ain Temouchent, Algeria	Green and Efficient heterocyclic synthesis via Phosphate Nanomaterials
El.Majdi C.MOUKHI S. Zerraf S. Belaouad	Hassan II University of Casablanca, Morocco	Experimental and Theoretical Investigation of 2-Methyl-6-Nitroanilinium Hydrogen Sulfate: Synthesis, Structural, Spectroscopic, and Quantum Chemical Properties
M. Oudahman M. Houmad R. Masrouf A. Rezzouk	Sidi Mohamed Ben Abdellah University, Morocco Mohammed V University in Rabat, Morocco	Exploring the Electronic and Photocatalytic Potential of t-Germagrapene and GeC-Graphene

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HEAD OF SESSION: Dr. BOUDRAHAM Salima

Authors	Affiliation	Presentation title
Dr. ABROUKI Younes	Mohammed V University in Rabat, Morocco	Sustainable Energy Solutions for Water Desalination: Toward Green and Resilient Water Systems
Dr. AIT OUJALLAL Ilham MABROUKI Jamal Dr. BOUDRAHAM Salima MOUSSADIK Ali ABROUKI Younes	Mohammed V University in Rabat, Morocco	Alternative Energy Integration in Water Desalination: A Sustainable Solution for Water Scarcity
Dr. BOUDRAHAM Salima MABROUKI Jamal Dr. AIT OUJALLAL Ilham ANOZLA Abdelkader ABROUKI Younes	Mohammed V University in Rabat, Morocco	Renewable Energy-Driven Water Desalination: A Pathway to Sustainable Water Management
OMISANDE Lawrence Ademola ADEGBESAN Ololade Oluwatosin ADENAIYA Olumide A	Federal Polytechnic, Nigeria	Performance of Polyethylene Terephthalate (Pet) Bottles
Sadiq, M.S Singh, I.P Ahmad, M.M	Federal University Dutse, Nigeria Swami Keshwanand Rajasthan Agricultural University, India	Carbon Farming as a Tool for Climate Resilience in Smallholder Agriculture
Sadiq, M.S Singh, I.P Ahmad, M.M Sani, B.S	Federal University Dutse, Nigeria Swami Keshwanand Rajasthan Agricultural University, India Bayero University, Nigeria	The Role of Agribusiness in Facilitating Farmers' Access to Carbon Markets
Ebrahim Mohammadi	Graduate University of Advanced Technology, Iran	Hydrocarbon potential and petroleum system of the Oligo-Miocene Qom Formation, Iran: A review
Farhan Ahmad Kusumiyati Kusumiyati Mochamad Arief Soleh Muhammad Rabnawaz Khan Ristina Sifi Sundari	Universitas Padjadjaran, Indonesia The University of Agriculture Peshawar, Indonesia	The Microclimate of Screen House: An Optimal Environment for Growth, Disease Resistance, and Quality Fruit Development in Solanaceous Crops (Cherry Tomato and Chili)
DAHMANI Yacine Mohamed Prof. Dr. ARKOUB Ouali	Mouloud Mammery University, Algeria University of M'Hamed Bougara Boumerdes, Algeria	Accounting for Carbon Emissions in the Hydrocarbon Industry

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HEAD OF SESSION: Assoc. Prof. Dr. Bilal SUNGUR

Authors	Affiliation	Presentation title
İbrahim ÇAKICI Yalçın DOĞAN Murat UYSAL	Teksan Generator, Türkiye	Thermal Performance Study of Bottom and Side Liquid Cooling Systems in Lithium-Ion Prismatic Battery Module Using CFD Method
Res. Assist. Yasir Ziya GÜLTAK Prof. Dr. Alkan ALKAYA	Mersin University, Türkiye	Estimating the State of Charge of a Lithium-Ion Battery Using Machine Learning Algorithms
Kübra DEMİREL Fatih KARAKOÇ Uğur ÖLMEZ	Teksan Generator, Türkiye	Desulfurization of Lead-Acid Batteries Using Organic Polymer Activators
Dr. Mehmet Nurullah ATEŞ	Bogazici University, Türkiye	One-Pot Recovery of Cathode Active Materials Used in Spent Lithium Ion Batteries
Res. Assist. Furkan MUMCU Assoc. Prof. Dr. Bilal SUNGUR Assoc. Prof. Dr. Alirza KALELİ	Samsun University, Türkiye	Experimental Investigation of the Effect of Air-Cooled Thermal Management System on Cell Temperatures in A Lithium- Ion Battery Module
Res. Assist. Furkan MUMCU Assoc. Prof. Dr. Bilal SUNGUR Assoc. Prof. Dr. Alirza KALELİ	Samsun University, Türkiye	Experimental Investigation of the Effect of Different Discharge Rates on Cell Temperatures in A Lithium-Ion Battery Module
Melisa EKŞİ Abdullah ZORLU Assoc. Prof. Dr. Mustafa ÖZCAN	Kocaeli University, Türkiye SGS Supervise Gözetme Etüd Kontrol Servisleri A.Ş., Türkiye	Photovoltaic Module Production and Quality Standards and The Evaluation of Testing in Manufacturer's Quality Processes
Pınar Yeşim AKGÖZ Assoc. Prof. Dr. Mustafa ÖZCAN	Smart Solar Technologies Gebze Production Factory, Türkiye Kocaeli University, Türkiye	Recycling of End-of-Life Photovoltaic Panels in Türkiye: A Step Towards Circular Economy

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HEAD OF SESSION: Assoc. Prof. Dr. Burak MARKAL

Authors	Affiliation	Presentation title
Güngör POLAT Assist. Prof. Dr. Sümeyye ÜSTÜNTAĞ	Erciyes University, Türkiye	Investigation of Air Filtration Efficiency of Keratin/Pla-Based Nanofibrous Surfaces
Assist. Prof. Dr. İkrım BABAZADE	"Geotechnological Problems of Oil, Gas and Chemistry" Scientific Research Institute, Azerbaijan	Activator of Low-Frequency Mechanical Vibrations to Increase the Debit of Hard-To-Recover Deposits
Dr. Emre Aşkın ELİBOL	Giresun University, Türkiye	Numerical Investigation of Thermal and Flow Characteristics of Manure in Reactor Digestion Tank
Res. Assist. Ömer ÖKSÜZ Assoc. Prof. Dr. Burak MARKAL	Karadeniz Technical University, Türkiye	Effect of Refrigerant Types on Flow Boiling in Microchannels
Lect. Fatih ATCI Assoc. Prof. Dr. Burak MARKAL	Karadeniz Technical University, Türkiye	The Role of Surface Wettability for Flow Boiling in Microchannels
Assist. Prof. Dr. İkrım BABAZADE Dr. O. Aliyeva N. Shıxkarimov X. Zulfuqarova	"Geotechnological Problems of Oil, Gas and Chemistry" Scientific Research Institute, Azerbaijan	Increasing the Efficiency of Oil and Gas Production Enterprises Through the Use of Smart Grids Technologies
Ress. Assist. Alperen EVCİMEN Assoc. Prof. Dr. Burak MARKAL	Recep Tayyip Erdogan University, Türkiye Karadeniz Technical University, Türkiye	Correlations Developed for Microchannel Flow Boiling
Lect. Dr. Betül ŞAHİN	Trabzon University, Türkiye	Coal and Pyrolysis of Coal
Assist. Prof. Dr. Mehmet Erkan SOYKAN Assoc. Prof. Dr. Azize ESMEYAY	Kayseri University, Türkiye	Volatility and Correlation Interaction Between USA and Turkish Index: DCC-GARCH Approach

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HEAD OF SESSION: Assist. Prof. Dr. Priti Rana

Authors	Affiliation	Presentation title
Satish Kumar Singh Sachin Singh Parihar Sadanand Patel	Central University of Punjab, India	Addressing Legal Barriers in Environmental Impact Assessments for Renewable Energy Projects: Policy Gaps and Practical Solutions
Nanda Kartika Putri	UIN K.H. Abdurrahman Wahid Pekalongan, Indonesia	Utilisation Of Renewable Energy As A National Electrification Solution In Remote Areas
Bello Ibrahim Monday Habeb Bolaji Onisabi Olojede Abayomi Opeyemi Bankole Mustapha Olatunji Abbas Hussein Enezoza	Federal University Lokoja, Nigeria Federal University of Technology, Nigeria	Application of North West Corner Optimization Method to Rural Electrification Using Renewable Energy Sources
Diksha Shankar Ankit Deepak Mishra Taneesha Gupta Pankaj Malhotra	Sushant University, India	Optimizing Sustainability in Healthcare: Integration of Renewable Energy with Smart Hospital Technologies
Mohammed Ouachekradi Yasser Karzazi	University Mohammed I, Morocco	Utilization of azo dyes with D- π -A structure as sensitizers in dye-sensitized solar cells: A computational investigation
Yassine Mouniane Fatima Zahra Aoujl Hadjab Slimane Amol D. Vibhute	Ibn Zohr University, Morocco Mohammed Seddik Ben Yahia-Jijel University, Algeria Symbiosis International (Deemed University), India	Enhancing Renewable Energy Systems Through Artificial Intelligence Integration
Assist. Prof. Dr. Priti Rana	University of Delhi, India	India's Adoption of Electric Vehicle Policy: A Step Towards Sustainability
Assist. Prof. Dr. K.R.Padma K.R.Don	Sri Padmavati Mahila Visvavidyalayam (Women's) University, India Bharath University, India	Biotechnological Innovation in Marine Pollution Control: Its Prospects and Challenges for Environmental Sustainability
Saloua FILALI Abdelkader NASSER Abdelhamid KERKOUR-EL MIAD	Mohammed Premier University, Morocco	Assessment of Mechanical Performance and Sustainability of Concrete with Recycled Marble Waste

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HEAD OF SESSION: Dr. BOUDRAHAM Salima

Authors	Affiliation	Presentation title
Driss Azdem Jamal Mabrouki Souad El hajjaji	Mohammed V University in Rabat, Morocco	Environmental Impacts of Seawater Desalination Brine Discharge on Marine Ecosystems: Case Study of Douira, Morocco
Shahryar Ahmadi Nasrin Karami	Ahvaz Jndishapur University of Medical Sciences, Iran Kermanshah University of Medical Sciences, Iran	Energy Optimization in Food Processing
Ganesh Kumar R.Y Hiranmai Ajay Neeraj	Central University of Gujarat, India	Transformation of organic waste into bio-based manure -a sustainable solution for environment quality management
Adesanmi, Moses Ademola Sobiye, Tolulope Christiana	Federal Polytechnic, Nigeria	A Lexical-Semantic Study of Change in Energy and Climate Terminology in Niyi Osundare's They Too Are the Earth and Earthwatch
DAHMANI Yacine Mohamed Prof. Dr. ARKOUB Ouali	Mouloud Mammery University, Algeria University of M'Hamed Bougara Boumerdes, Algeria	Carbon Accounting for Environmental Compliance and Risk Management in Business Operations
Chisom C. Okpala Ifeoma F. Chukwuma Victor O. Apeh Ozoemena E. Eje	University of Nigeria Nsukka, Nigeria Federal University of Allied Health Sciences, Nigeria	Artificial Intelligence in Biodiesel Production: A Systematic Review
Dr. BOUDRAHAM Salima MABROUKI Jamal Dr. AIT OUJALLAL Ilham ABROUKI Younes	Mohammed V University in Rabat, Morocco	The Role of Green Energy in Sustainable Development: Challenges and Opportunities
Amin Ghaderi Seyed Reza HASSAN-BEYGI Rasol Hematiyan	University of Tehran, Iran Irankhodro powertrain co. Iran	Numerical investigation of the effect of diesel-biodiesel-bioethanol fuel mixtures on the performance parameters and emissions of a direct injection diesel engine.
Anas Umar Aliyu Adam Salihu Kila	Bayero University Kano, Nigeria	Assessing the Potentials of Graminoids in the Production of Biojet Fuel in Bayero University Kano, Nigeria

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HEAD OF SESSION: Prof. Dr. Muralidhar MANAPURAM

Authors	Affiliation	Presentation title
Adirek Vajrapatkul Boonta Wayupab Pinmanee Vajrapatkul	Sukhothai Thammathirat Open University, Thailand Central Food Retail Company Limited, Thailand Srinakharinwirot University, Thailand	The Determinant of Natural Resource Rents in BVAR Framework
Adirek Vajrapatkul Boonta Wayupab Pinmanee Vajrapatkul	Sukhothai Thammathirat Open University, Thailand Central Food Retail Company Limited, Thailand Srinakharinwirot University, Thailand	Dynamic Interrelationships Among Crude Oil, Natural Gas, Gold, and Oil Prices in Thailand: A Bayesian Vector Autoregressive Approach
Adirek Vajrapatkul Boonta Wayupab Pinmanee Vajrapatkul	Sukhothai Thammathirat Open University, Thailand Central Food Retail Company Limited, Thailand Srinakharinwirot University, Thailand	Exploring the Interrelationships between Economic Indicators and Natural Resource Rents in Thailand: A Two-Stage Least Squares Analysis
Megha Shruti	University – Vellore Institute of Technology, India	Energy Management in Building Management System by incorporating AI driven Smart Grids
Prof. Dr. Muralidhar MANAPURAM	North Eastern Regional Institute of Science and Technology, India	Why and How Much Energy Do We
Assist. Prof. Dr. Sakineh Sojoodi Laleh Dastmalchi	University of Tabriz, Iran Urmia University, Iran	The Factors Affecting the Technical Efficiency of Iranian Gas Power Plants: The Application of Super Efficiency Method
Muhammad Sufyaan Khan	Vellore institute of Technology, India	Energy Efficiency Economics and Policy
Julius Ademola OYEWOLE Dr. Ayoola, Yemisi Adeola Olaleye, Victor Olugbenga	University of Ilesa, Nigeria	Enhancing Education through the Lens of Communicating Energy: Using English as a Medium to Foster Environmental Literacy
Elmira Azizi Norouzabadi	University of Tabriz, Iran	Examining the Impact of Export Diversification on Energy Intensity of Iran

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HEAD OF SESSION: Assoc. Prof. Dr. Berna YAVUZ PEHLİVANLI

Authors	Affiliation	Presentation title
Lect. Dr. Semih YILMAZ Assist. Prof. Dr. Kubilay BAYRAMOĞLU Prof. Dr. M. Turhan ÇOBAN	Dokuz Eylul University, Türkiye Zonguldak Bulent Ecevit University, Türkiye Piri Reis University, Türkiye	Comparison of COP in Maritime Applications Using Modern Refrigerants
Assist. Prof. Dr. Kubilay BAYRAMOĞLU Lect. Dr. Semih YILMAZ	Zonguldak Bulent Ecevit University, Türkiye Dokuz Eylul University, Türkiye	The Impact of Waste Heat Recovery System of a Ship to EEXI
Fatih OĞUZ Assist. Prof. Dr. Cemil KOYUNOĞLU	Yalova University, Türkiye	Improvement of Boiler Room Ventilation in an Urban Health Center in a Computational Fluid Mechanics Study
Assoc. Prof. Dr. Berna YAVUZ PEHLİVANLI Prof. Dr. Hatice KANBUR ÇAVUŞ	Yozgat Bozok University, Türkiye	Potential of Yozgat Graphite Deposits and Contribution to Energy Technologies
Assoc. Prof. Dr. Berna YAVUZ PEHLİVANLI	Yozgat Bozok University, Türkiye	Turkey's Oil Shale Potential and Energy Future; Sorgun Basin (Yozgat)
Res. Assist. Ahmet DAYANÇ Assist. Prof. Dr. Feridun KARAKOÇ	Kutahya Dumlupinar University, Türkiye	Thermomechanical Stress Analysis of a Motorcycle Brake Disc Under Predefined Conditions Using Finite Element Method
Res. Assist. Ahmet DAYANÇ Assist. Prof. Dr. Feridun KARAKOÇ	Kutahya Dumlupinar University, Türkiye	Design of a Diamond TPMS Heat Sink Using Implicit Modeling: Comparative Analysis of Thermal and Mechanical Properties
Assoc. Prof. Dr. Turan UYSAL Esra ÇIRAK	Gümüşhane University, Türkiye	Rare Earth Element Recovery from Kemiklitepe (Karaman-Turkey) Bauxite Ore by Water Leaching

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HEAD OF SESSION: Prof. Dr. Cengiz KARACA

Authors	Affiliation	Presentation title
Cemre YILMAZ Prof. Dr. Dilek ERDİRENÇELEBİ	Konya Technical University, Türkiye	A Physical Separation Methodology and its Effects on the Waste Animal Fat Content Prior to Biodiesel Production Process
Cemre YILMAZ Prof. Dr. Dilek ERDİRENÇELEBİ	Konya Technical University, Türkiye	The Effect of Reaction Time on Biodiesel Quality from Waste Animal Fat Using Ethanol
Assoc. Prof. Dr. Sedat BOYACI Prof. Dr. Atılgan ATILGAN	Kırşehir Ahi Evran University, Türkiye Alanya Alaaddin Keykubat University, Türkiye	Determination of Energy Potential of Plant Residues from Greenhouse Courgette Cultivation
Assoc. Prof. Dr. Sedat BOYACI Prof. Dr. Atılgan ATILGAN	Kırşehir Ahi Evran University, Türkiye Alanya Alaaddin Keykubat University, Türkiye	Investigation of the Effect of Energy Saving Measures on Heat Energy Requirement in Greenhouses
Mehmet Can ÖZTÜRK	Osmaniye Korkut Ata University, Türkiye	Effects of Wooden Structures on Energy Performance and Carbon Emissions
Yasir Tümay DOST Assist. Prof. Dr. Cemil KOYUNOĞLU	Yalova University, Türkiye	Biomass-Based Energy Production Plant Feasibility Study
Prof. Dr. Cengiz KARACA	Hatay Mustafa Kemal University, Türkiye	Energy Production Potential from Agricultural Residues in Kayseri Province
Prof. Dr. Cengiz KARACA	Hatay Mustafa Kemal University, Türkiye	The Potential of Biogas Production from Livestock Manure and Effects on Greenhouse Gas Reduction in Kayseri Province

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HEAD OF SESSION: Assist. Prof. Dr. Ramireddy Sushmitha

Authors	Affiliation	Presentation title
Melik Sami Khelil Sara Tallal Abdel Karim Bouzir	Mohamed Khider Biskra University, Algeria Blida University, Algeria	Orientation-Driven Design: A Pathway to Sustainable Energy Use in Architecture
Melik Sami Khelil Sara Tallal Abdel Karim Bouzir	Mohamed Khider Biskra University, Algeria Blida University, Algeria	Heritage and Sustainability: Energy-Efficient Solutions for Historical Structures
Melik Sami Khelil Sara Tallal Abdel Karim Bouzir	Mohamed Khider Biskra University, Algeria Blida University, Algeria	Reducing Energy Loss in Buildings: The Role of Next-Generation Insulation Systems
Merouane GUETIOUI Yasmina KELLOUCHE Abdelkader BOUGARA	Chlef University, Algeria	Quantifying Activation Energy of Blended Cements Using Machine Learning
Astha Bagjilewale	VIT BHOPAL University, India	Transitioning from Fossil Fuels: Addressing Environmental Challenges and Advancing Sustainable Energy Solution
Astha Bagjilewale	VIT BHOPAL University, India	Addressing Greenhouse Gas Emissions: Sources, Effects, and Mitigation Strategies for a Sustainable Future
Fatemeh DERAKHSHAN Mehrdad KARIMIMOSHAVER	Bu-Ali Sina University, India	Thermal Effects of High-Rise Buildings: A Case Study of Tehran
Assist. Prof. Dr. Ramireddy Sushmitha	G. Pulla Reddy Engineering College, India	A Study on Waste Plastic in Bitumen
Lect. Sinan GÜNEŞ Prof. Dr. Mustafa TOMBUL	Ankara University, Türkiye	The Role of Window Sizes in Time Series Analysis: An Evaluation for Energy Consumption Prediction in Public Buildings
Dr. Serkan YILDIZ Lect. Sinan GÜNEŞ	Ankara University, Türkiye	Sustainable Mosques: Design Aspects and Good Practice Examples

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HEAD OF SESSION: Prof. Dr. Jafar MASSAH

Authors	Affiliation	Presentation title
Soha SAMI Prof. Dr. Jafar MASSAH Mohammad HAJIAN Dr. Tayyeb NAZGHELICHI Prof. Dr. Seyed Reza HASSAN-BEYGI	University of Tehran, Iran Gorgan University of Agricultural Sciences and Natural Resources, Iran	AI-Driven Prediction of Grid Electricity Imports for Industrial Buildings: A Case Study Using GRU in Konstanz
Soha SAMI Prof. Dr. Jafar MASSAH Mohammad HAJIAN Dr. Tayyeb NAZGHELICHI Prof. Dr. Seyed Reza HASSAN-BEYGI	University of Tehran, Iran Gorgan University of Agricultural Sciences and Natural Resources, Iran	Development and Evaluation of a Hybrid AI Algorithm for Enhancing the Accuracy of Photovoltaic Power Generation Prediction
Soha SAMI Abolfazl AGHAJANLOU Mohammad HAJIAN Prof. Dr. Jafar MASSAH Dr. Tayyeb NAZGHELICHI	University of Tehran, Iran Gorgan University of Agricultural Sciences and Natural Resources, Iran	Photovoltaic Power Generation Forecasting: A Systematic Review of Methods for Forecasting and Analyzing Time and Weather Inputs
Bahijjah Abdallah	Federal Polytechnic Kabo, Nigeria	Hybrid Blockchain Solutions for Supply Chain Management: Enhancing Secure and Transparent Traceability with Advanced Privacy Measures
Chaymae Sergent Prof. Dr. Yasser Karzazi	University Mohammed I, Morocco	Theoretical Design of Novel Organic Materials for Applications in Organic Solar Cells
ATMANE Amal SENGENT Chaymae KARZAZI Yasser	University Mohammed First, Morocco	Theoretical study of new organic materials of D-A-A architecture for application in solar cells
Mohamed CHOKRI Ilyas JALAFI Omar AZOUGAGH Amine BENDAHHOU Youssef EL Ouardi Mohamed ABOU-SALAMA Soufian EL BARKANY	University Mohammed Premier, Morocco University of Technology LUT, Morocco	New Photocatalysts Based on Tungsten and Niobium-Modified TiO ₂ Rutile Active Under Sunlight

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Authors	Affiliation	Presentation title
Abdulgaffar Muhammad Halima Abdulaziz Anthony Kolade Adesugba Ibrahim Mallam Fali Anthony Unyime Abasido	Independent Researcher, Nigeria Ahmadu Bello University, Nigeria	The Financial and Energy Security Implications of Iran's Missile Development on Regional Economic Stability in the Middle East
Prof. Dr. Shalva Zarnadze Mariam Chokheli Ana Toria Lizi Nikoleishvili	Tbilisi State Medical University, Georgia	Alternative Energy and Reducing Firewood Consumption to Reduce Environmental Impact
Oleh ZIKH Assoc. Prof. Dr. Yurii IVASHUK	West Ukrainian National University, Ukraine	Powering Performance: Compensation Strategies for a Thriving Energy Sector
Vitalii BOYKO Assoc. Prof. Dr. Yurii IVASHUK	West Ukrainian National University, Ukraine	Navigating Volatility: Challenges and Opportunities for Businesses in the Energy Sector
Maksym RYBAK Assoc. Prof. Dr. Yurii IVASHUK	West Ukrainian National University, Ukraine	Driving Forces and Barriers to Energy Innovation: An Entrepreneurial Ecosystem Perspective
Mizanur Rahman	Bangabandhu Sheikh Mujibur Rahman Science and Technology University, Bangladesh	The Geopolitics of Energy Transition: Challenges and Opportunities in a Multipolar World
Assoc. Prof. Dr. Neha	Swami Vivekanand Subharti University, India	The Need of the World: Green Energy for Sustainable Development
Dr. Cumali TÜRKMENOĞLU Murat İN İsmail KARADAĞ	Fatih Sultan Mehmet Vakif University, Türkiye Hitsoft Harmony of Information Technologies, Türkiye	A Comprehensive Comparison of Machine Learning and Deep Learning Algorithms for System Marginal Price Forecasting in Electricity Markets