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# -OPENING CEREMONY-

DATE: 06.12.2024 / TSI TIME-09<sup>00</sup> : 09<sup>30</sup>  
VENUE: FACULTY OF ENGINEERING, ERCIYES UNIVERSITY  
(F BLOK KONFERANS SALONU)  
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-09<sup>40</sup> : 10<sup>40</sup>  
VENUE: FACULTY OF ENGINEERING, ERCIYES UNIVERSITY  
(F BLOK KONFERANS SALONU)

## **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-11<sup>00</sup> : 12<sup>00</sup>  
VENUE: FACULTY OF ENGINEERING, ERCIYES UNIVERSITY  
(F BLOK KONFERANS SALONU)  
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-13<sup>20</sup> : 14<sup>50</sup>

VENUE: FACULTY OF ENGINEERING, ERCIYES UNIVERSITY  
(MAKINE MÜH TOPLANTI SALONU)

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 Anıl 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 Anıl 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-15<sup>00</sup> : 18<sup>00</sup>

VENUE: FACULTY OF ENGINEERING, ERCIYES UNIVERSITY  
(MAKINE MÜH TOPLANTI SALONU)

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-14<sup>00</sup>:16<sup>30</sup>



VENUE: Erciyes University, Faculty of Engineering (F BLOK KONFERANS SALONU)



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

Authors	Affiliation	Presentation title
<b>Dr. Mithat ŞİMŞEK</b> <b>Dr. Nurullah GÜLTEKİN</b>	Tokat Gaziosmanpaşa University, Türkiye	Studying the Effects of Adding Bronze to Polymer Composite Sliding Bearings for Vehicle Applications on Vibration, Noise, and Friction Coefficient
<b>Dr. Gizem Hazan AKÇAY</b> <b>Prof. Dr. İrfan AR</b>	Muş Alparslan University, Türkiye Gazi University, Türkiye	Domestic Wastewater Treatment and Electricity Generation Using a PTFE Based Electrode and Nested Cylindrical Dual Chamber Microbial Fuel Cell
<b>Dr. Sevda YETİMAN</b> <b>Assoc. Prof. Dr. Fatma KILIÇ DOKAN</b> <b>Prof. Dr. Mustafa Serdar ÖNSES</b> <b>Prof. Dr. Ertuğrul ŞAHMETLİOĞLU</b>	Erciyes University, Türkiye Kayseri University, Türkiye	Assessment of The Energy Storage Dynamics of Carbon Quantum Dots Embedded Perovskite Calcium Titanate
<b>Seda BELEN</b> <b>Assist. Prof. Dr. Ramazan AYZAZ</b>	Yıldız Technical University, Türkiye	Comparison of Battery Performances Within the Scope of Electrical Load Analysis in Aircraft
<b>Assist. Prof. Dr. Duygu AGHAZADEH</b>	University of Turkish Aeronautical Association, Türkiye	Predictive Modeling of Greenhouse Gas Emissions in Urban Areas Using Machine Learning for Real-Time Mitigation
<b>Assist. Prof. Dr. Ahmet GANI</b>	Kayseri University, Türkiye	Design of Photovoltaic Panel-Fed Step-Up Luo Converter for Renewable Energy Applications
<b>Assist. Prof. Dr. Ahmet GANI</b>	Kayseri University, Türkiye	Design of Boost Converter for Sustainable Energy Applications
<b>Lect. İlker KAYALI</b> <b>Assoc. Prof. Dr. Gülşah ELDEN</b>	Kapadokya University, Türkiye Erciyes University, Türkiye	A Numerical Study of a Vanadium-Redox Flow Battery with Several Flow Field Channel Geometries
<b>Mourad Kaddiri</b> <b>Bilal El hadoui</b>	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-14<sup>00</sup>:16<sup>30</sup>



VENUE: Erciyes University, Faculty of Engineering (BB039 KONFERANS SALONU)



HEAD OF SESSION: Prof. Dr. Gamze GENÇ

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