



International Congress on Advanced Energy Studies -II

*August 24-26, 2025
New York*

CONGRESS PROGRAM



ONLINE PRESENTATIONS

Meeting ID: 870 6274 8180

Passcode: 242526

PARTICIPANT COUNTRIES (6):

Türkiye, Morocco, India, Algeria, Nigeria, Bangladesh

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25.08.2025

Session-1 / Hall-6

New York Time: 09⁰⁰-11⁰⁰

Ankara Time: 16⁰⁰-18⁰⁰

HEAD OF SESSION: Assist. Prof. Dr. Alişan AYVAZ

TOPIC TITLE	AUTHORS	AFFILIATION
ENERGY EFFICIENCY INCREASE WITH HIGH COP TECHNOLOGIES IN MILK AND BEVERAGE COOLING SYSTEMS: AN APPLICATION OF INDUSTRIAL BEVERAGE FACTORY	Alper DİBEKOĞLU	DİMES Gıda San. Ve Tic. A.Ş.
PROCESS IMPROVEMENTS FOCUSED ON WATER RECOVERY AND ENERGY EFFICIENCY IN INDUSTRIAL BEVERAGE PRODUCTION: A CASE STUDY	Alper DİBEKOĞLU	DİMES Gıda San. Ve Tic. A.Ş.
EVALUATION OF THE BIOMASS POTENTIAL OF HARD-SHELLED AGRICULTURAL WASTES IN TERMS OF ENERGY IN TÜRKİYE	Betül ŞAHİN	Trabzon University, Türkiye
DEVELOPMENT OF BIODIESEL TECHNOLOGY AND EVALUATION OF FUEL PROPERTIES	Betül ŞAHİN	Trabzon University, Türkiye
MULTI-CRITERIA EVALUATION OF HEAT PUMP REFRIGERANT MIXTURES IN TERMS OF ENERGY EFFICIENCY AND ENVIRONMENTAL IMPACT	Kaan Niyazi BAŞKAL Hüsamettin TAN	Kırıkkale University, Türkiye
ANALYSIS OF GREEN HYDROGEN PRODUCTION USING WIND ENERGY IN THE SAMSUN-AMASYA REGION	Alişan AYVAZ	Amasya University, Türkiye
IMPROVING ENERGY CONSUMPTION THRU DATA DRIVEN METHODS AND OPTIMIZATION: A PAPER PRODUCTION CASE	Meltem KAYHAN Berfin ÖNAL	Beykoz University, Türkiye

25.08.2025

Session-1 / Hall-7

New York Time: 09⁰⁰-11⁰⁰

Ankara Time: 16⁰⁰-18⁰⁰

HEAD OF SESSION: Assoc. Prof. Dr. Murat UYAR

TOPIC TITLE	AUTHORS	AFFILIATION
REMAINING USEFUL LIFE ESTIMATION IN PROTON EXCHANGE MEMBRANE FUEL CELLS USING AN ATTENTION-ENHANCED LSTM TIME SERIES APPROACH	Murat UYAR Burak ALTAŞ	Bursa Uludağ Üniversitesi
FROM SILICON TO PEROVSKITE: TRACING THE TECHNICAL EVOLUTION OF PHOTOVOLTAIC PANELS	LAAROUSSI Karima, HARKANI Assia, EL AISSAOUI Abdellah, JEMJAMI Saloua	University Hassan 1st, Settat, Morocco Laboratory of agricultural machinery, energy and precision agriculture, INRA, Settat, Morocco
COST-PERFORMANCE EVALUATION AND DESIGN OPTIMIZATION OF ELECTRIC VEHICLE CHARGING STATIONS UNDER INFRASTRUCTURE AND GRID CONSTRAINTS	Mohd Asif, Viqar Ahmad, Umrana	Meerut Institute of Engineering and Technology, India ITM College, Aligarh, 202140, India Raj Kumar Goel Institute of Technology, India
EXPLORING THE INFLUENCE OF INTERNATIONAL ENERGY ORGANIZATIONS ON SUSTAINABLE ENERGY DEVELOPMENT THROUGH THE LENS OF INTERNATIONAL LEGAL PARADIGM	Priya Chaudhuri Tuhina Sinha	Amity University Jharkhand, India
EFFECT OF ZINC SULFIDE INSULATION LAYER ON THE PERFORMANCE OF CIGS SOLAR CELLS	Abdelali Laid, Bouguenna Abdellah, Meksi	University Djillali Liabes of Sidi Bel Abbes, Algeria University of Sciences & Technology of Oran, Algeria
FIRST-PRINCIPLES ANALYSIS OF THE OPTOELECTRONIC AND THERMOELECTRIC PROPERTIES OF BLACK PHOSPHORENE FOR ENERGY HARVESTING APPLICATIONS	Zakariya Arbaoui, Soufiane Elhadfi, Mourad Boutahir, Abdelhai Rahmani	Moulay Ismail University FSM- ESTM-ENS, BP 11201, Zitoune, Meknes, Morocco
SENSORY PROPERTIES AND MINERAL COMPOSITION OF LOCALLY PRODUCED OKPA FROM BAMBARA GROUNDNUT PACKAGED WITH DIFFERENT MATERIALS	Nwakalor Chizoba Nkiru, Ofem Owai Ajah	Federal Polytechnic Oko, Anambra State, Nigeria
OPTIMIZATION OF MULTIPLE PARTICLE IMPACT ON COLD SPRAYED INCONEL POWDERS	Al-murisi Abdulaziz Hamed Abdulrahman, MD Helal Uddin, Ikbal Ahmed, Mohammad Nur-E-Alam	Universiti Tenaga Nasional, Selangor CCN University of Science & Technology, Bangladesh

25.08.2025

Session-1 / Hall-8

New York Time: 09⁰⁰-11⁰⁰

Ankara Time: 16⁰⁰-18⁰⁰

HEAD OF SESSION: Melik Sami

TOPIC TITLE	AUTHORS	AFFILIATION
TAILORING INSULATION SYSTEMS TO CLIMATE ZONES: MAXIMIZING ENERGY SAVINGS THROUGH LOCALIZED SOLUTIONS	Melik Sami, Khelil Sara, Tallal Abdel Karim Bouzir	Mohamed Khider Biskra University, Biskra, Algeria / LACOMOFA Biskra laboratory. Algeria
HARNESSING TRADITION: INDIGENOUS DESIGN PRINCIPLES FOR CONTEMPORARY ENERGY-EFFICIENT ARCHITECTURE	Melik Sami, Khelil Sara, Tallal Abdel Karim Bouzir	Mohamed Khider Biskra University, Biskra, Algeria / LACOMOFA Biskra laboratory. Algeria
NEXT-GENERATION INSULATION TECHNOLOGIES: A PARADIGM SHIFT IN BUILDING ENERGY EFFICIENCY	Melik Sami, Khelil Sara, Tallal Abdel Karim Bouzir	Mohamed Khider Biskra University, Biskra, Algeria / LACOMOFA Biskra laboratory. Algeria
RETROFITTING HERITAGE BUILDINGS: BALANCING CONSERVATION WITH ENERGY PERFORMANCE	Melik Sami, Khelil Sara, Tallal Abdel Karim Bouzir	Mohamed Khider Biskra University, Biskra, Algeria / LACOMOFA Biskra laboratory. Algeria
ENERGY CONSUMPTION PATTERNS AND CONSERVATION OPPORTUNITIES IN NIGERIAN UNIVERSITIES: CASE STUDY OF AN ENERGY AUDIT OF BENUE STATE UNIVERSITY, MAKURDI	Aondosoo Ijir Terkuma Caleb Lumun Aondona Isaac Terwase Orseer Achimba Aondona Israel Nyityo Msughter Joseph Guusu Calvin Azo Barakur Barnabas Ikyo	Center for Food Technology and Engineering Research BSU Makurdi Joseph Sarwuan Tarka University, Makurdi-Nigeria
MODELING THE IMPACT OF DEFECT DENSITY AND INTERFACE STATES ON PEROVSKITE DEVICE EFFICIENCY	Fatima Zahra ZNAKI, Khalid. SAID, Mohamed ADADI, Hassane MOUSTABCHIR, Souad ELKHATTABI	Sidi Mohamed Ben Abdallah University, Fez, Morocco
ROBUST FAULT-TOLERANT CONTROL FOR DFIG WIND-ENERGY SYSTEMS: MATRIX-CONVERTER OPERATION UNDER OPEN-SWITCH FAULTS	Aboubaker Essaddiq MAZOUZ, Said HASSAINE, Hamid BOUMEDIENE, Lallouani HELLALI, Oussama MOUSSA	University of Tiaret, Algeria University Mohamed Boudiaf of Msila, Algeria University of Ghardaia, Algeria