



**ADVANCES IN CHEMICAL ENGINEERING AND SCIENCE (ICACES)  
INTERNATIONAL CONFERENCE 2021**

**INTERNATIONAL CONFERENCE ON ADVANCES IN CHEMICAL ENGINEERING AND SCIENCE  
(ICACES 2021)**

9<sup>th</sup> JUNE 2021 – 9:00 AM to 4:00 PM PAKISTAN STANDARD TIME

**VIRTUAL CONFERENCE ON ZOOM**

**OPENING CEREMONY – MAIN LOBBY**

9:05 AM	9:10 AM	Recitation of Holy Quran
9:10 AM	9:12 AM	National Anthem
9:12 AM	9:16 AM	Welcome Reception and Conference Day Proceeding by General Secretary
9:16 AM	9:20 AM	Welcome Talk by the Convener / Chairman Chemical Engineering Department (New Campus)
9:20 AM	9:24 AM	Address by Dean CMPE Faculty - UET Lahore
9:25 AM	9:35 AM	ICACES-2021 Highlights

**Session-I (9:35 am to 12:00 pm) Pakistan Standard Time**

Time Track – ROOM 1		Oral Presentation Track	Time Track - ROOM 2		Oral Presentations Track
Session Chair: Dr. Adeel Anwar			Session Chair: Dr. Asma Khan		
9:35 AM	10:00 AM	<b>Dr. Serene Lock Sow Mun</b> Molecular Simulation of Graphene Oxide/Polysulfone Mixed Matrix Membrane for CO <sub>2</sub> /CH <sub>4</sub> Gas Separation	9:35 AM	10:00 AM	<b>Dr. Liyuan Fan</b> Direct Internal Methane Steam Reforming Reaction in Solid Oxide Fuel Cells
10:00 AM	10:25 AM	<b>Dr. Muhammad Moniruzzaman</b> Recent advances in exploiting ionic liquid surfactants for oil spill remediation	10:00 AM	10:25 AM	<b>Dr. David Alejandro de Haro del Río</b> Biomass-Derived Platform Molecules Hydrogenation Using Zeolitic Catalysts
10:25 AM	10:50 AM	<b>Dr. Muhammad Shahzad Kamal</b> Development of Surfactants for Oilfield Applications	10:25 AM	10:50 AM	<b>Dr. Peng Zhang</b> Latent heat thermal energy storage by the packed bed system
10:50 AM	11:15 AM	<b>Dr. Zaeem Baber</b> Exploring The Potential Of Secondary Particulate Formation From The Photochemical Degradation Of Amines Employed For CO <sub>2</sub> Capture	10:50 AM	11:15 AM	<b>Dr. Atta Ullah</b> Computational hydrodynamics study of turbulent contact absorber
11:15 AM	11:30 AM	<b>Mohsin Ali</b> Effect of Nano-silanzed Silica on the mechanical properties of Textile Cot	11:15 AM	11:30 AM	<b>Ujala Farooq</b> Toughening of epoxy using thermoplastic (PEI)
11:30 AM	11:45 AM	<b>Kainat Amin</b> Dopamine Coated Engineered Nano Material Based Polymeric Membrane for Forward osmosis Waste Water Treatment	11:30 AM	11:45 AM	<b>Aqeel Ahmed</b> Role of Ionic liquid on the mechanical properties of polyetheretherketone-multiwalled carbon nanotubes (PEEK-MWCNTs) nanocomposites



11:45 AM	12:00 PM	<b>Dr. Muhammad Khurram Waqas</b> Formulation Development And In-vitro Evaluation Of Topical Niosomal Gel	11:45 AM	12:00 PM	<b>Muhammad Abdullah</b> Development of Reinforced Polymer Composite by integrating Functionalized Carbon Nanotubes with Fiberglass
12:00 PM	1:00 PM	<b>Poster Presentations - MAIN LOBBY</b> Session Chair: Dr. Asif Jamil			
<b>Session-II (1:00 pm to 4:00 pm) Pakistan Standard Time</b>					
<b>Time Track - ROOM 1</b>		<b>Oral Presentation Track</b>	<b>Time Track - ROOM 2</b>		<b>Oral Presentations Track</b>
Session Chair: Dr. Shafaq Muzammal			Session Chair: Dr. Qandeel Almas		
1:00 PM	1:25 PM	<b>Dr. Sahil Garg</b> Understanding the effects of anion interactions with Ag electrodes on electrochemical CO <sub>2</sub> reduction in choline halide electrolytes	1:00 PM	1:25 PM	<b>Dr. Claire Chassagne</b> Flocculation of Clay Suspensions by Anionic and Cationic Polyelectrolytes: A Systematic Analysis
1:25 PM	1:50 PM	<b>Dr. Faheem Akhtar</b> Polymeric membranes for gas and vapor separation	1:25 PM	1:50 PM	<b>Dr Shaghraf Javaid</b> Synthesis of magnetically separable Fe <sub>3</sub> O <sub>4</sub> -Au-CdS kinked heterotrimers incorporating plasmonic and semiconducting functionalities
1:50 PM	2:15 PM	<b>Dr. Abhishek Sharma</b> Waste to Energy: Global Challenges and Potential Solutions	1:50 PM	2:15 PM	<b>Dr. Aderval S. Luna</b> Multivariate regression models obtained from near-infrared spectroscopy data for prediction of the physical properties of biodiesel and its blends
2:15 PM	2:40 PM	<b>Dr. Hassan Zeb</b> Biomass Liquefaction in Solvent: How to change biomass to solvent ratio?	2:15 PM	2:40 PM	<b>Dr. Nehar Ullah</b> Fabrication of transparent superhydrophobic surfaces with functionalized nano-silica
2:40 PM	2:55 PM	<b>Muneeb Ahmed</b> Modelling and Experimental Assessment of Natural Gas Sweetening Plant	2:40 PM	2:55 PM	<b>Wajeaha Umer</b> Preparation, characterization and Degradation potential of polystyrene Fe-ZnO/ clay Nanocomposite
2:55 PM	3:10 PM	<b>Umer Abid</b> Development of High-Performance MPU/Gelatin/Nano-Silanized Silica Based Green Elastomeric Blends	2:55 PM	3:10 PM	<b>Nabeel Imtiaz</b> Performance and Economic evaluation of Solar based Hybrid CV-CC Capacitive Deionization desalination system: A case Study



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3:10 PM	3:25 PM	<b>Faysal Naeem</b> Enhancement of electromechanical properties of Niobium Doped lead-free piezoceramic material for energy harvesting applications	3:10 PM	3:25 PM	<b>Marriyam Sultana</b> Replacement of liquid electrolyte with Polyaniline/Multi-walled carbon nanotubes (PANI/MWCNTs) based solid-state electrolytes for efficient and stable third-generation Dye-sensitized solar cell (DSSCs)
3:25 PM	3:40 PM	<b>Hasnat Muhammad</b> CXCR4-Receptor-Targeted Liposomes for the Treatment of Peritoneal Fibrosis	3:25 PM	3:40 PM	<b>Anas Khan</b> Effect of Electric Vehicles Induction in the Power Section of Pakistan with CO2 Emission Consideration

CONCLUDING REMARKS - MAIN LOBBY

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