

<b>4<sup>th</sup> INTERNATIONAL CONFERENCE ON ENERGY CONSERVATION AND EFFICIENCY– (ICECE 2021)</b> <b>16<sup>th</sup>-17<sup>th</sup> March 2021</b> <small>version 9.2</small>	
<b><u>OPENING CEREMONY</u></b>	
<i>Tuesday 16<sup>th</sup> March 2021   Duration [09:15 – 09:50] Hrs.</i>	
[09:15 – 09:17] Hrs [2 Min]	<b>National Anthem</b>
[09:17 – 09:20] Hrs [3 Min]	<b>Recitation: Holy Quran</b>
	<b>Welcome Notes</b>
[09:20 – 09:25] Hrs [5 Min]	<b>Prof. Dr. Waqar Mahmood</b> <i>Director, CERAD UET Lahore, Pakistan</i>
[09:25 – 09:27] Hrs [2 Min]	<b>ICECE Highlights</b>
[09:27 – 09:30] Hrs [3 Min]	<b>Prof. Dr. Syed Mansoor Sarwar</b> VC UET Lahore
[09:30 – 09:32] Hrs [2 Min]	<i>Mr. Adnan Mudassar</i> <b>MD PEECA</b>
[09:32 – 09:35] Hrs [2 Min]	<b>Prof. Dr. Fazal Ahmed Khalid</b> Chairman Punjab HEC
[09:35 – 09:40] Hrs [5 Min]	<b>Atta ur Rahman</b> Chairman Pakistan Science & Technology Task Force
[09:40 – 09:45] Hrs [5 Min]	<b>Dr. Muhammad Akhtar Malik</b> Minister Energy Punjab

<b>[Day – 1]   Session-I [10:00 - 13:00] Hrs Tuesday 16th March 2021</b> <b>Energy Storage Technologies and Utilization</b>			
<b>Time Track – 1A</b>	<b>Main Track</b>	<b>Time Track – 2A</b>	<b>Paper Track Electronics and Control Systems</b>
	<i>Session Chair: Dr. Asif Nadeem Tabish</i> <i>Chemical Dept, UET Lahore</i> <i>(KSK Campus)</i>		<i>Session Chair: Dr. Yaqoob Javaid</i> <i>Electrical Dept. Comsats</i>
[09:50 - 10:45] Hrs 55 Minutes	A Research Journey on Frequency Response Analysis for Power Transformer Fault Detection – Modelling, Experimental and Field Experiences <b>Prof. Syed Islam</b> Federation University Australia	[10:30-10:45] Hrs 15 Minutes	<i>Hybrid Grey Wolf Optimizer Sine Cosine Algorithm based Maximum Power Point Tracking Control of PV Systems under Uniform Irradiance and Partial Shading Condition</i> <b>Muhammad Hamza Zafar</b>

		[10:45-11:00] Hrs 15 Minutes	<i>Maximum Power Point Tracking of PV System under Uniform Irradiance and Partial Shading Conditions using Machine Learning Algorithm Trained by Sailfish Optimizer</i> <b>Noman Mujeeb Khan</b>
[10:45 - 11:30] Hrs 45 Minutes	Membranes for energy-efficient separation and sensing applications <b>Prof. Dr. Faheem Akhtar</b> KAUST KSA	[11:00-11:15] Hrs 15 Minutes	<i>Analysis and Evaluating the Effect of Harmonic Distortion Levels in Industry</i> <b>Haider Ali</b>
		[11:15-11:30] Hrs 15 Minutes	<i>An approach towards prepaid metering system using PowerStudio SCADA</i> <b>Allah Wasaya</b>
[11:30 -12:15] Hrs 45 Minutes	Stationary Storage Landscape in Pakistan and Case for Lithium-Ion Batteries <b>Prof. Dr. Nauman Zaffar</b> Electrical Engineering School of Science & Engineering, LUMS	[11:30-11:45] Hrs 15 Minutes	<i>Control of a High Voltage DC Modulator for an Industrial Magnetron</i> <b>Noman Khan</b>
		<b>Track: Energy management and Resource Conservation</b>	
		[11:45-12:00] Hrs 15 Minutes	<i>Efficient Energy Management System for Hybrid Power Sources</i> <b>Hassan Jamal</b>
[12:15 -13:00] Hrs 45 Minutes	Materials Challenges for decarbonized energy storage <b>Prof. Dr. Jawwad A. Darr</b> UCL University of London	[12:00-12:15] Hrs 15 Minutes	<i>Renewable Portfolio Standard from the Perspective of Policy Network Theory for Saudi Arabia Vision 2030 Targets</i> <b>Amjad Ali</b>
		[12:15-12:30] Hrs 15 Minutes	<i>Removal of Arsenic from synthetic-water using Iron Coated Sand Adsorbent and Modified Ceramic Clay House Hold Pitcher</i> <b>Raza Saeed</b>
<b>Break [13:00 – 13:45] Hrs</b>			

**[Day 1] Session-II [14:00 - 16:15] Hrs Tuesday 16th March 2021**

<b>Time Track – 1B</b>	<b>Main Track</b>	<b>Time Track – 2B</b>	<b>Paper Track Energy management and Resource Conservation</b>
<b>Session Chair: Dr. Tanveer Iqbal</b> Chemical UET KSK		<b>Session Chair: Dr. M Farooq</b> Mechanical- UET KSK	
[13:45 - 14:45] Hrs 60 Minutes	Chemical energy storage by means of carbon dioxide capture and utilization <b>Prof. Alberto Pettinau, Ph.D.</b> Sotacarbo - Sustainable Energy Research Centre	[14:00 - 14:15] Hrs 15 Minutes	<i>In Search of an Energy Miracle</i> <b>H. Bruce Glushakow</b>
		[14:15 - 14:30] Hrs 15 Minutes	<i>Development of Financial Model to Solarize Public Institutes in Pakistan</i> <b>Waqas Ali Khan</b>
[14:45 - 15:30] Hrs 45 Minutes	Volumetric expander applications in small scale heat to power energy systems <b>Dr. Muhammad Imran</b> Aston University, United Kingdom	[14:30 - 14:45] Hrs 15 Minutes	<i>Electrical Energy Management in Spinning Area of Textile Industry</i> <b>Muhammad Hassan Qaisar</b>
		[14:45 - 15:00] Hrs 15 Minutes	<i>Analysis and Design of Passive Filters for Power Quality Improvement in 3 phase Grid-Tied PV Systems</i> <b>Ayaz Qureshi</b>
[15:30 - 16:15] Hrs 45 Minutes	Storing Renewable Electrons into High Energy Density Molecules: A way forward for Renewable Energy Sector <b>Dr Shahid Rasul, PhD, PGCAP, FHEA</b> Northumbria University	[15:00 - 15:15] Hrs 15 Minutes	<i>The Effect of Operational Variables on the Performance of Electrochemical Water Treatment for Drinking Purposes</i> <b>Ufaq Zehra</b>
		[15:15 - 15:30] Hrs 15 Minutes	<i>Intelligent Hybrid Energy Resource Connected Demand Side Load Management System-Case of Pakistan</i> <b>Hassan Yousaf</b>
		[15:30 - 15:45] Hrs 15 Minutes	<i>Analysis Of Energy Consumption Intensity And Electric Power Quality In Undip Campus</i> <b>Jaka Windarta</b>
<b>Closing Remarks Day 1</b>			

**\*\*\*Day 1 Close\*\*\***

<b>Day 2</b>			
<b>Session-I   [10:00 - 13:00] Hrs Wednesday 17th March 2021</b>			
<b>Energy Efficiency and Conservation in Power Systems</b>			
<b>Time: Track-3A</b>	<b>Main Track</b>	<b>Time: Track-4A</b>	<b>Paper Track Renewable Energy</b>
<i>Session Chair: Dr. M Kamran Electrical Dept, UET Lahore (KSK Campus)</i>		<i>Session Chair: Dr. Farhan Mahmood Electrical Dept, UET Lahore (Main Campus)</i>	
[10:00 - 10:45] Hrs 45 Minutes	Potential of Integrated Waste Biorefinery in Circular Economy <b>Dr. Abdul Sattar Nizami</b> SDSC Government College University, Lahore, Pakistan	[10:30 - 10:45] Hrs 15 Minutes	<i>Economic and Performance Analysis of PV System and Grid Supply for High Rise Building and Luxury Villa in Pakistan</i> <b>Taimoor Asghar</b>
[10:45 – 11:30] Hrs 45 Minutes	Data Driven Efficiency of Natural Gas Utilization in Pakistan <b>Dr. Naveed Arshad</b> Electrical Engineering School of Science & Engineering, LUMS	[10:45 - 11:00] Hrs 15 Minutes	<i>Impacts of High Penetration of Wind Power on Transmission System</i> <b>Rizwan Ali</b>
		[11:00 - 11:15] Hrs 15 Minutes	<i>Free Energy Generator using Dynamo and Flywheel</i> <b>Aqsa Fatima</b>
[11:30 – 12:15] Hrs 45 Minutes	Digitalization of Distribution Grid for Energy Efficiency and Conservation <b>Dr. Sobia Baig</b> HOD Energy Research Center COMSATS Lahore <b>Vice Chair IEEE Lahore Section</b>	[11:15 - 11:30] Hrs 15 Minutes	<i>Abundance of Sun Resource Brings Extra Profits on Dish Stirling Solar Power Station</i> <b>Xianghui Hou</b>
		[11:30 - 11:45] Hrs 15 Minutes	<i>Biomass pelletizing: Characterization of cow dung assisted solid recovered bio- fuel from agricultural waste</i> <b>Hamza Sohail</b>
[12:15 – 13:00] Hrs 45 Minutes	Energy Conservation Strategies and Peak Loads Management in Sever Climate Countries <b>Prof. Hani Hussain Sait</b> king Abdulaziz university	[11:45 - 12:00] Hrs 15 Minutes	<i>Buffer Layered PbS Colloidal Quantum Dot Solar Cell With Enhanced Efficiency</i> <b>Faisal Saeed</b>
		[12:00 - 12:15] Hrs 15 Minutes	<i>Pyrolysis of Burley Tobacco: Impact of Process Parameters on Bio-oil Composition and Yield</i> <b>Tasya Muhamad Yasser</b>
<b>Break [13:00 - 14:00] Hrs</b>			

<b>[Day 2] Session-II [14:00 -16:15] Hrs Wednesday 17th March 2021</b>			
<b>Time Track – 3B</b>	<b>Main Track</b>	<b>Time Track – 4B</b>	<b>Paper Track Thermal Energy/ Energy Storage and Conversion</b>
<i>Session Chair: Dr. Amjad Hussain Past Chair IEEE Lahore Section</i>		<i>Session Chair: Dr. M Amjad Mechanical, UET Lahore (KSK)</i>	
[13:45 - 14:45] Hrs 60 Minutes	A Scalable Privacy Preserving Distributed Parallel Optimization for Smart Grids <b>Prof. Dr. Pierluigi Siano</b> Prof. of Electrical Energy Engineering University of Salerno, Italy	[14:00 - 14:15] Hrs 15 Minutes	<i>Thermo-economic evaluation of integrated gasification combined cycle co-generation system with carbon capture: A Pakistan’s perspective</i> <b>Muhammad Zaman</b>
		[14:15 - 14:30] Hrs 15 Minutes	<i>Performance Analysis of Geo Cooling Energy Storage Technique for Domestic Buildings in Areas Under Typical Weather Conditions</i> <b>Zulkarnain Abbas</b>
[14:45 - 15:30] Hrs 45 Minutes	5G/6G Use Cases that will help in Net-Zero Emission Goals <b>Prof. Dr Ali Imran</b> Glasgow University	[14:30 - 14:45] Hrs 15 Minutes	<i>Heat Transfer Comparative Analysis: Straight Channel and Dimple-Protrusion Overlapping with Copper Oxide Nano-Particles</i> <b>Zia ullah Khan</b>
		[14:45 - 15:00] Hrs 15 Minutes	<i>Finite Element Modeling Of Finned Double-Pass Solar Air Heaters</i> <b>Ali M. Rashan</b>
[15:30 - 16:30] Hrs 60 Minutes	<i>Energy and Environment Experts Panel Discussion</i>  <b>Moderator: Mr. Muhammad Ali/ Imran Ali Shah</b>	[15:00 - 15:15] Hrs 15 Minutes	<i>Energy Analysis and Working Fluid Selection of Combined ORC-VCC Refrigeration System Operated by Low-Grade Thermal Energy Sources</i> <b>Rajnesh Kumar</b>
		[15:15 - 15:30] Hrs 15 Minutes	<i>Solar to electric and – chemical energy conversion applications with the indigenously developed nickel oxide coatings</i> <b>Muhammad Awais</b>
<b>CLOSING REMARKS (16:30 HRS)</b>			
<b>CONFERENCE CLOSE</b>			