



5th Pak-Turk International Conference on Emerging Technologies in the field of Sciences and Engineering
1-2, December 2022
Organized by University of Wah

Program Schedule Day 1

| Inauguration Program Schedule (1st December, 2022) | | |
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| Auditorium UW | | |
| 09:00-09:05 AM | Opening and Recitation of a few verses from the Holy Quran | |
| 09:06-09:10 AM | National Anthems of Pakistan and Türkiye | |
| 09:11-09:20 AM | Welcome Speech | Prof. Dr. Jameel-Un Nabi, Vice Chancellor UW |
| 09:21-09:35 AM | Address by the Chief Guest | Prof. Dr. Inayatullah Khan, Vice Chancellor UET Taxila |
| 09:36-09:45 AM | Address by the Guest of Honour | Honourable Mr Mehmet Kiraz, Turkish Embassy |
| 09:46-10:05 AM | Keynote Speech | Prof. Mahmut Büyükata, Kırıkkale University, Türkiye |
| 10:05-10:25 AM | Keynote Speech | Prof. Dr Muhammad Shahab, Vice Chancellor SBBU |
| Group Photo and Tea Break 10:30-11:00 o'clock | | |
| Technical Session 1 (Day 1)- Physical Sciences | | |
| Venue: Auditorium UW | | |
| Session Chair: Prof. Mahmut Büyükata | | |
| Moderator: Dr Matti Ullah Shah | | |
| Keynote Talks | | |
| 11:01-11:15 AM | Effect of Dead Layer Thicknesses of a HPGe Detector on Full Energy Peak Efficiency | Prof. Dr. Tuncay Bayram (Keynote Speech) |
| 11:16-11:30 AM | Quality and energy optimization of AlSi10Mg parts manufactured by selective laser melting (SLM) technique | Dr. Arfan Majeed (Keynote Speech) |
| 11:31-11:45 AM | Phase space generation of nuclei in high energy reactions | Prof. Dr. Nihal Buyukcizmeci, (ONLINE) |
| 11:46-12:00 PM | A Self-Consistent Explanation of Allowed and First-Forbidden Beta Transitions within pn-QRPA Formalism | Prof. Dr. Serder ÜNLÜ (ONLINE) |
| 12:01-12:15 PM | New era of Radiation: FLASH Radiotherapy | Prof. Dr. Ismail Sarpun (ONLINE) |
| 12:16-12:30 PM | Preliminary results for the relationship between dmax and stopping power for incident electron beams | Prof. Dr. M. Çağatay Tufan (ONLINE) |
| 12:31-12:45 PM | Q&A Session | |
| Lunch/Prayer Break 12:46-1.55 PM | | |

| Technical Session 2 (Day 1 Parallel)- Computer Science/ Mechanical Engineering | | |
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| Venue: Seminar Hall-UW | | |
| Session Chair: Dr. Wazir Zada Khan | | |
| Moderator: Dr. Javeria Amin | | |
| 11:01-11:15 AM | Artificial Intelligence and Human Factors towards Intelligent Transportation Systems | Prof. Zahid Halim (Keynote Speech) |
| 11:16-11:30 AM | AI in agriculture for sustainable precision farming | Dr. Mudassar Raza (Keynote Speech) |
| 11:31-11:45 AM | Gender Classification Using Novel Acoustics Deviated Local Ternary Patterns | Azmat Hayat |
| 11:46-12:00 PM | Automatic filling of a product form in an E-commerce application from a video using machine learning | Muhammad Ibrahim |
| 12:01-12:15 PM | Comparative Analysis of Software Development Process Models | Engr Inam Ullah Khan (ONLINE) |
| 12:16-12:30 PM | From Grid Computing to Dew computing; opportunities and challenges. | Kainat Umar |
| 12:31-12:45 PM | Design and Development of Solar Assisted hybrid bicycle | Mamoon Ahmad Khilji |
| 12:46-01.00 PM | Design and Development of Speed Bumps System for Energy Scavenging | Engr. Zubair Butt |
| Lunch/Prayer Break 01:00-1.55 PM | | |

| Technical Session 3 (Day 1 Parallel)- Statistics/ Data Science/ Civil Engineering | | |
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| Venue: LR-04 | | |
| Session Chair: Dr. Javid Shabbir | | |
| Moderator: Dr. Sidra Rana | | |
| 11:01-11:15 AM | A Novel Estimator of Finite Population Variance | Dr. Shameem Alam |
| 11:16-11:30 AM | A Data Mining Perspective on Polio Eradication in Pakistan | Mr. Muhammad Uzair Tariq |
| 11:31-11:45 AM | Forecasting GDP and Exchange Rate Using Arima Models: Evidence from Pakistan | Mr. Abdul Rehman Malik |
| 11:46-12:00 PM | Modelling of Socioeconomic and Cultural Discrepancies affecting Fertility Patterns in Pakistan: Evidence from 2017-2018 Pakistan Demographic and Health Survey | Dr. Maryam Siddiq (ONLINE) |
| 12:01-12:15 PM | Classification of Multivariate data using Regression Analysis and Artificial Neural Network | Ms. Zara Omar (ONLINE) |
| 12:16-12:30 PM | Performance Analysis of Fiber Reinforced Concrete using different Fiber Proportions. | Shahrukh Abbas (ONLINE) |
| 12:31-12:45 PM | MECHANICAL AND DURABILITY PROPERTIES OF 3D PRINTING CONCRETE A-REVIEW | Haseeb Murtaza (ONLINE) |
| Lunch/Prayer Break 12:46-1.55 PM | | |

Technical Session 4 (Day 1 Parallel)- Mechanical Engineering**Venue: Auditorium UW****Session Chair: Prof. Dr. Necla Cakmak****Moderator: Dr Saleem Iqbal**

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| 02:00-02:15 PM | Experimental Study of the Efficiency of a Tank Storage Gas Water Geyser by Applying Energy-efficient Techniques | Muhammad Kashif |
| 02:16-02:30 PM | A Statistical Framework for Optimization of Cylindrical Grinding Parameters on AISI-D6 Steel | Iftikhar Ali Waleedy |
| 02:31-02:45 PM | Numerical Analysis of wire rope using different Meshing Techniques | Haris Khan |
| 02:46-03:00 PM | Analysis the Thermal Efficiency of the Pin Fin PCM Based Heat Sinks Utilizing Free and Forced Convection | Muhammad Umar Munir |
| 03:01-03:15 PM | Design of a Low-Cost Prototype Underwater Vehicle | Ahsan Tanveer (ONLINE) |
| 03:16-03:30 PM | Comparatively Study Between Monocrystalline and Polycrystalline Photovoltaic Panel Based on PCM | Bushra Nadeem (ONLINE) |
| 03.31-03.45 PM | Engine fan speed control in a Short Take-off and Landing (STOL) Aircrafts | Kamran Ahmad Cheema (ONLINE) |

Technical Session 5 (Day 1 Parallel)- Mechanical Engineering**Venue: Seminar Hall-UW****Session Chair: Prof. Dr. Tuncay Bayram****Moderator: Prof. Dr. Waseem Shahzad**

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| 02:00-02:15 PM | Tribological Analysis of Ionic Liquid as an Additive to the Bio Based Oils | Hira Nawaz |
| 02:16-02:30 PM | Performance Analysis of Desalter and Vacuum Distillation Column in Oil Refinery | Muhammad Shahrukh Atta |
| 02:31-02:45 PM | Energy, Exergy Analysis of PCM Based Solar Photovoltaic Panel. | Muhammad Tayyab Mohsin |
| 02:46-03:00 PM | Implementation of Six Sigma Methodology for Design of Portable Water Filtration System | Ahmed Usman Yasir |
| 03:01-03:15 PM | Assessing Pakistan Climate Mitigation to Support Nationally Determined Contributions Goals | Danish Hameed (ONLINE) |
| 03:16-03:30 PM | Thermal Investigation of Rectangular Header Normal Channel Facile Heat Sink using Hybrid Nano Fluids | Amna Adil (ONLINE) |
| 03.31-03.45 PM | Numerical Investigation of Dual Flow Integral Fin Mini channels using Nano Fluid | Taha Baig (ONLINE) |
| 03:46-04:00 PM | The Influence of Fillers on Wear Behaviour of Epoxy Composite Coatings for Sliding Tribo-pair | M. Kamran Shaukat |

Technical Session 6 (Day 1)- Chemistry & Chemical Engineering**Venue: LR-04****Session Chair: Dr. Khurram Shahzad Baig****Moderator: Dr Shaukat Ali**

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| 02:00-02:15 PM | Protonated Polyanilines as potential adsorbents for Removal of Dyes | Anila Tabasam |
| 02:16-02:30 PM | Integration of Water Gas Shift (WGS) Reactions Using Membrane Reactors (MRs): A Review | Nidarish Gohar |
| 02:31-02:45 PM | Adsorption Studies for The Removal of Arsenic from Contaminated Water | Engr. Aasia Farrukh |
| 02:46-03:00 PM | Biosorption Studies of Arsenic (As) removal from Industrial Wastewater by using Fixed and Fluidized Bed | Ghulam Abbas |
| 03:01-03:15 PM | Analysis of 1-Tetradecene Production from Thermal Cracking of Castor Oil & Ethylene Oligomerization by Modified Ziegler Process | Muhammad Bilal |
| 03:16-03:30 PM | A Review on CO2 Capturing from Air through Reactive Absorption Technique | Hashir Farhan Arif |
| 03.31-03.45 PM | Green synthesis of Propylene Glycol Via Hydrogenation of Biodiesel Production By-product Glycerol | Salman Khalid |

**Posters Session
Day 1 (Parallel) E-Hall-UW**

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| 01.00-3.00 PM | Poster Presentation | All Poster Presenters |
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Program Schedule Day 2

| Technical Session 7 (Day 2 Parallel)- Physical Sciences/ Material Science | | |
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| Venue: Auditorium UW | | |
| Session Chair: Prof. Mahmut Büyükata | | |
| Moderator: Dr Matti Ullah Shah | | |
| 09:00-09:15 AM | Impact of Modified Gravity on the Stability of the Einstein Universe | Prof. Dr. Muhammad Sharif (Keynote Speech) |
| 09:16-09:30 AM | Beta decay chain between Lu-170 and Er-170 isotopes | Prof. Dr. Necla Cakmak (Keynote Speech) |
| 09:31-09:45 AM | Asymmetric Piperidines from Substituted pyridine N-oxides | Prof. Munawar Hussain (Keynote Speech) |
| 09:46-10:00 AM | Level Density and Talys | Prof. Dr. Ismail Sarpun (ONLINE) |
| 10:01-10:15 AM | Primary Standardization by Counting Alpha-Particles at a Defined Solid Angle | Prof. Dr. Meryem Seferinoglu (ONLINE) |
| 10:16-10:30 AM | Structural and Electrical Characterization of Pr _{0.5} Ca _{0.5} MnO ₃ | Kamran Shahzad |
| 10.31-10.45 AM | Dielectric relaxaction and hopping mechanisms of charge transport in $La_{0.3}Ca_{0.7}MnO_3$ | Muhammad Shahzad Rauf (ONLINE) |

| Technical Session 8 (Day 2)- Biotechnology/ Microbiology/ Environmental Sciences & Engineering | | |
|---|---|---|
| Venue: Seminar Hall-UW | | |
| Session Chair: Prof Mushtaq Ahmad | | |
| Moderator: Dr Shumaila Naz | | |
| 09:00-09:15 AM | Communication between Plant and Phytomicrobiome under salinity stress and the role of Bioactive metabolites. | Prof. Asghari Bano (Keynote Speech) (ONLINE) |
| 09:16-09:30 AM | Utilization of targeted next-generation sequencing for quick identification of causative mutations to resolve dystrophic epidermolysis bullosa phenotypes | Dr. Pakeeza A. Shaiq |
| 09:31-09:45 AM | Biocontrol rhizobacteria enhances growth and yield of wheat (<i>Triticum aestivum</i>) under field conditions against <i>Fusarium oxysporum</i> | Syed Inayatullah Agha |
| 09:46-10:00 AM | Genome-wide identification and evolutionary analysis of CNGC gene families in sixteen Brassicaceae plant genomes | Akram Ali |
| 10:01-10:15 AM | The challenges and prospects of EVs in Pakistan: An overview considering the environmental concerns | Zainab Rehman (ONLINE) |
| 10:16-10:30 AM | Production, characterization and emission monitoring of biodiesel produced from fish waste | Javairia Ansar (ONLINE) |
| 10.31-10.45 AM | Biogas Production from Fallen Leaves Using Physical and Chemical Pre-treatment | Iftikhar Ul Hassan (ONLINE) |

| Technical Session 9 (Day 2)- Chemistry & Chemical Engineering | | |
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| Venue: LR-04 | | |
| Session Chair: Dr. Khurram Shahzad Baig | | |
| Moderator: Dr Kashif Iqbal | | |
| 09:00-09:15 AM | COD and BOD removal of textile waste water using rice husk activated carbon (RHAC) | Muhammad Sulaiman (ONLINE) |
| 09:16-09:30 AM | Magnetite-Siltstone-Biochar composite for heavy metal adsorption from aqueous solution | Dr. Salah ud din (ONLINE) |
| 09:31-09:45 AM | Highly Flexible Amino Functionalized Metal Organic Framework/rGO Composite Film for Advanced Anodes for Li-ion Batteries | Dr. Adnan (ONLINE) |
| 09:46-10:00 AM | A Short Review on Latest Technologies for the Pre-treatment of Lignocellulosic Biomass | Engr. Aasia Farrukh |
| 10:01-10:15 AM | Graphene Oxide based BaTiO ₃ Nanocomposite Films, Durable and Efficient Energy Harvesting Materials | Dr. Muhammad Sohail |
| 10:16-10:30 AM | Process Design for Production of Synthetic Natural Gas from Gasification of Solid Waste -A Case Study of Lahore City | Muhammad Usama Saeed |
| 10:31-10:45 AM | Production of Biodiesel from Algae to Overcome Energy Crises | Laiba Ashraf |

| Closing Program Schedule | | |
|---------------------------------|--|---|
| Venue: Auditorium UW | | |
| 11.00-11.05 AM | Recitation of a few verses from the Holy Quran | |
| 11.06-11:20 AM | Guest of Honor and Keynote Speech | Prof. Dr Mushtaq Ahmad |
| 11:21-11.35 AM | Chief Guest and Keynote Speech | Prof. Dr Mansoor Hameed Inayat |
| 11.36-11.45 AM | Recap and Conference Statistics | Dr Syed Waqas Hassan (Conference Secretary) |
| 11.46-11.55 AM | Thought sharing by Pakistani Speakers | Pakistani Speakers |
| 11:56-12.05 PM | Thought sharing by Turkish Speakers | Turkish Speakers |
| 12.06-12.15 PM | Vote of Thanks | Vice Chancellor UW (Patron in-chief) |

Organizing Committee

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On Emerging Technologies in Field of Science & Engineering

Email: pakturk5@uow.edu.pk

<http://www.uow.edu.pk/pakturk/>