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Partners



Sponsors



Venue

Day – I | Thursday – March 24, 2022

Department of Chemical Engineering,
University of Engineering & Technology, Lahore,
G.T. Road – 54890, Pakistan

Day – II | Friday – March 25, 2022

Institute of Chemical Engineering & Technology,
University of the Punjab, Lahore,
Quaid-i-Azam Campus – 54590, Pakistan



International Conference on Chemical Engineering (ICCE – 2022)

March 24 - 25, 2022



Conference Programme

Day – I | Thursday – March 24, 2022 | Department of Chemical Engineering, University of Engineering and Technology, Lahore

0900 – 1000 Hours | Registration [Seminar Hall]

1000 – 1100 Hours | Opening Ceremony [Seminar Hall]

1100 – 1130 Hours | Tea Break [Main Lobby]

1130 – 1200 Hours | Keynote Talk – I [Seminar Hall]

1200 – 1330 Hours | Session – I | Catalysis and Chemical Reaction Engineering / Heat Transfer [Seminar Hall]

- Furfural synthesis over zeolite-based catalysts | Muhammad Mujahid Anwar
- Investigating the effects of inherent alkali and alkaline earth metal catalysis on biochar gasification | Muhammad Umar Arshad
- Photocatalytic degradation of cancerous pollutant (Bisphenol A) from aqueous waste using Bismuth based nanomaterial | Azka Tariq
- Synthesis and catalytic property of Chiral Pd@Cu nanomaterials with of purine nucleotides | Muhammad Javed Iqbal
- Synthesis of 1-Tetradecene via thermal decomposition of castor oil | Rameesha Ghuias
- A Rapid Method of analysis of insulating oil through non-destructive Spectroscopic techniques | Salahuddin Khan

1200 – 1330 Hours | Session – II | Computing, Control, and Process Systems [Model Classroom]

- Simulation and optimization study for CO₂ and H₂S removal from natural gas using MDEA and sulfinol-M with piperazine as activator | Mansab Rafique
- Development and simulation of a methanol production plant from CO₂ hydrogenation using captured CO₂ considering cost effectiveness | Saman Khawaja
- Sorption enhanced gasification of biomass in a circulating fluidized bed to produce H₂ rich syngas - An investigative study on Aspen Plus | Abdul Rehman
- Natural gas condensate stabilization with CO₂ removal through steady state optimization processes | Mohsin Ehsan Baig
- Design and modeling of a novel reactor-heat exchanger system for the dehydrogenation of methylcyclohexane | Dr. Muhammad Sarfraz Akram
- Simulation of chemical vapor deposition reactor | Muhammad Arslan Haider

1330 – 1430 Hours | Lunch Break and Poster Session [Main Lobby]

- Fabrication and characterization of stimuli-responsive hydrogels for drug release applications | Muhammad Saad Fasih | Ayesha Sharif
- Mineralogical investigation and exploration of the mineral potential areas of Chitral, Pakistan | Usman Ghani
- The implementation of membrane technology processes to resolve water problems in Pakistan | Khuzaima Bin Noaman | Dr. Noaman Ul-Haq

1430 – 1500 Hours | Keynote Talk – II [Seminar Hall]

1500 – 1700 Hours | Session – III | Computing, Control, and Process Systems / Energies [Seminar Hall]

- Thermal modelling of a high-power lithium-ion cell using equivalent circuit modelling approach | Quratul Ain
- Simulation of lithium-Ion battery half cell using pore network modelling approach | Dr. Zohaib Atiq Khan
- Modeling and simulation of a coupled reactor for hydrogen production in an integrated fuel cell power system | Mahnoor Tahir
- CFD modeling and parameter optimization of anode-supported solid oxide fuel cell (SOFC) | Huma Hussain
- Computational fluid dynamics simulation of indoor air flow | Minahil Zia
- Evaluation of Energy potential and methane generation from municipal solid waste (MSW) of Gujranwala city (Pakistan) | Dr. Chaudhry Haider Ali
- Thickness optimization of non-toxic germanium based Perovskite Solar Cell Using SCAPS-1D | Waqar Ahmad
- Investigation of synergistic/inhibitive effects during Biochar Gasification in the mixture of CO₂ and H₂O | Iftikhar Saleem

Day – II | Friday – March 25, 2022 | Institute of Chemical Engineering & Technology, University of the Punjab, Lahore

0800 – 0900 Hours | Registration [Conference Room]

0900 – 1030 Hours | Session – I | Biotechnology, Bioeconomy, and Bioengineering / Food and Pharmaceutical [Conference Room]

- Production of fuel graded ethanol by fermentation starting from molasses | Muneeb ur Rehman
- Feasibility study and process optimization of citric acid production plant in KPK, using sugarcane molasses | Syed Umar Hussain
- Process development for production of bioethanol from lignocellulosic kitchen waste | Memoona Saif
- Prediction and optimization of process parameters for biomass demineralization using RSM and ANN | Kamran Hyder
- Kinetic study and application of artificial neural network (ANN) model to predict the degradation behavior of dairy manure | Muhammad Zeeshan Azam
- Synergic removal of CO₂ and NO using chemically modified activated carbon prepared from food waste and scrap tire | Dr. Zaeem Bin Babar

1030 – 1100 Hours | Keynote Talk – I | Prof. Dr. Aamir Ijaz [Conference Room]

1100 – 1130 Hours | Tea Break [Main Lobby]

1130 – 1145 Hours | Keynote Talk – II | International professional services opportunities for engineers | Engr. Khalid Bashir

1145 – 1300 Hours | Session – II | Materials and Nanotechnologies [Conference Room]

- Multicomponent dyes adsorption onto adsorbent derived from plant waste | Namrah Akhtar
- Titanium and Zirconium based metal organic framework (MOF) for pollutant gas purification | Khizra Karim
- Construction of Zn-based 3D-dimensional MOF via sequential insertion technique, accompanied by SC-SC transformation | Khalid Talha
- Design and Synthesis of 2-D Cu-MOF, their structural diversity and applications | Alamgir
- Synthesis and performance of La-doped TiO₂ nanocomposites for supercapacitors | Tayyaba Raza

1145 – 1300 Hours | Session – III | Safety, Health, and Environment [Meeting Room]

- Controlling pollution in hydroprocessing units of oil refinery | Engr. Nasir Hussain
- Novel and Facile Synthesis of Graphitic Carbon Nitride and Tungsten Oxide Nanocomposites Photocatalyst for the effective degradation of Methylene Blue | Muhammad Usman
- Response surface methodology for optimization of operational parameters for electrochemical disinfection of drinking water | Allah Ditta
- Synthesis of composite membranes for reverse osmosis applications | Abdul Rauf
- Sodium alginate-based nanocomposite membranes for oil-water separation from wastewater | Mehwish Ehsan

1300 – 1430 Hours | Prayer and Lunch Break [Main Lobby]

1430 – 1530 Hours | Session – IV | Safety, Health, and Environment [Conference Room]

- Relationship between air quality index and meteorological parameter among the major cities of Pakistan | Shabana Bano
- Status of greenhouse gases in Pakistan, associated health & environmental effects, & future directions for their mitigation | Mashhood Urfi
- Turnaround safety considerations | Engr. Nasir Hussain

1530 – 1600 Hours | Closing Ceremony [Conference Room]