

ICAME-21 Program (25th August, 2021)

Inaugural Session

Chair: Dr. Mahabat Khan

Co-Chair: Dr. M. Javed Hyder

Registration (online) 09:30 - 09:45 AM

Opening Ceremony 09:45 - 10:00 AM

Keynote Lecture I 10:05 - 10:50 AM

LIQUID METAL FLOW IN A CHANNEL WITH A MAGNETIC OBSTACLE AND HEAT TRANSFER

Dr. Ruben Avila, Professor, Faculty of Engineering, National Autonomous University of Mexico

Stream A

Technical Session A-I 11:00 - 13:00 AM

Chair: Dr. Waqas Akbar Lughmani

Co-Chair: Engr. Tauseef Ahmed

Time	Speaker	Title
11:00 –11:20	Mahad Shakeel, Muhammad Anis, Muhammad Ali	Fatigue Analysis of Low-Pressure Steam Turbine Blades During Start-Up Using Probabilistic Concepts
11:20 – 11:40	Danyal Alam, Nazeer Ahmad Anjum, Muhammad Usman Tahir	Investigation of Notch Fatigue Behaviour of Aluminium Alloy-2024 Processed Through Equal Channel Angular Pressing (ECAP).
11:40 – 12:00	Asad Yousaf, Riffat Asim Pasha, Ashfaq Muhammad	Effect of Filler Materials on Mechanical Properties of Shielded Metal Arc Welded AISI 316L Austenitic Stainless-Steel Joints
12:00 – 12:20	Muhammad Ahmed, Muhammad Irfan	Evaporation Dynamics of Two Differently Sized Interacting Droplets
12:20 – 12:40	Talal Bin Irshad, Abid Hussain	Numerical Analysis of Thermal Management System for Li-Ion Batteries
12:40 – 13:00	Asif Durez, Hassan Shehwar, Nausherwan Ahmed	Safety Lesson: Transferring of Patients in Hospitals using Rack and Pinion based Mechanism

Prayer and Lunch Break 13:00 - 14:00 PM

Note :

- Present 15 mins followed by 5 mins Q & A session

Technical Session A-II 14:00 - 17:00 PM

Chair: Dr. Muhammad Irfan

Co-Chair: Engr. Shumaila Rasheed

Keynote Lecture A-I 14:00 - 14:30 PM

COMPUTATIONAL MODELLING OF AIRWAY CLOSURE & REOPENING: Dr. Metin Muradoglu, Professor, Department of Mechanical Engineering, Koc University, Turkey

Time	Speaker	Title
14:30 –14:50	Muhammad Zulfiqar, Ubaid ur Rehman Zia,	Prospects of bioenergy potential in Punjab (Pakistan) under different scenarios of agricultural growth.
14:50 –15:10	Misha Urooj Khan, Syeda Zuriat-e-Zehra Ali	A Novel Intelligent Model for COVID-19 Detection Using Cough Auscultations and Hjorth Descriptors
15:10 – 15:30	Misha UroojKhan, Sana Samer, Asad-ur-Rehman	Nanoscale CMOS Scaling Trends, Challenges and Their Solutions

Keynote Lecture A-II 15:30 - 16:00 PM

STOCHASTIC MODELS OF SPRAY IN THE UNDER-RESOLVED TURBULENCE: Dr. Mikhael Gorokhovski, Professor, LMFA, Ecole Centrale de Lyon, France

16:00 – 16:20	A. Jehanzeb Joya, M. J. Hyder, Yasir Zulfiqar	Deformation and Stress Analysis of Cylindrical HCl Storage Tank with Piping Attachments on HCl Sloshing Upon Kashmir 2005, Earthquake
16:20 – 16:40	Huzafa Ahmed*, A. Jehanzeb Joya, Yasir Zulfiqar	Modelling and Analysis of Faults in a Nominal Π Model of a Medium Transmission Line Using Simulink
16:40 – 17:00	Yasir Zulfiqar, A. Jehanzeb Joya, M. Javed Hyder	Stress Analysis of Flat and Conical Roof Cylindrical Tank Due to Seismic Sloshing

Closing Ceremony 17:00 - 17:15 PM

Networking and Refreshments 17:15 - 18:00 PM

Note :

- Present 15 mins followed by 5 mins Q & A session

Stream B

Technical Session B-I 11:00 - 13:00 AM

Chair: Dr. Salman Sagheer Warsi

Co-Chair: Engr. Manzar Masud

Time	Speaker	Title
11:00 –11:20	Faisal Hassan, Abid Hussain	Advanced phase change materials applications in thermal management field: A topical review
11:20 –11:40	Tariq Mehmood, Najam ul Hassan Shah, Muzaffar Ali	Phase Change Material (PCM) Based Thermal Energy Storage with Hybrid Salts
11:40 – 12:00	Asif Durez, Muzaffar Ali	Model Based Assessment of Phase Change Material (PCM) for Effective Cooling of PV Panels Considering Pakistani Climate
12:00 – 12:20	Arslan Ibrahim, Muzaffar Ali, Wasim Ahmed	Real-time Thermal Performance of a Solar Parabolic Trough Collectors Array with Multiple Receiver Materials under Subtropical Climate Conditions
12:20– 12:40	Muteeb ul Haq, Ali Turab Jafry	A CFD approach to investigate the fuel spray characteristics for castor oil and its blends in diesel engine
12:40 – 13:00	Najam us Saqib, Kamran Ansari, Munir Babar	Analysis of Pressure Profiles and Energy Dissipation across the stepped Spillways having Curved Treads using Computational Fluid Dynamics

Prayer and Lunch Break13:00 - 14:00 PM

Note :

- Present 15 mins followed by 5 mins Q & A session

Technical Session B-II 14:00 - 17:00 PM

Chair: Dr. Taiba Zahid

Co-Chair: Engr. Rizwan Siddiqui

Keynote Lecture B-I 14:00 - 14:30 PM

SMART TRANSPORTATION SYSTEM: Dr. Barış Yıldız, Assistant professor, Department of Industrial Engineering, Koc University, Turkey

Time	Speaker	Title
14:30 –14:50	Malik Kamal Mazhar, Muhammad Jawad Khan,	Real Time Vehicle State Estimation Using Low-Cost Inertial Measurement Unit
14:50 –15:10	Arslan Ishtiaq, Misha Urooj Khan, Asad-ur-Rehman	A Review of System on Chip (SOC) Applications in Internet of Things (IOT) and Medical
15:10 – 15:30	Jawaria Ahad, Amjad Farooq, Masroor Ahmad	Iodine Removal in Self- Priming Venturi Scrubber

Keynote Lecture B-II 15:30 - 16:00 PM

INDUSTRY 4.0 AND ENGINEERING CHALLENGES: Dr. Tariq Masood, Reader, Design, Manufacturing & Engineering Management, University of Strathclyde, UK

16:00 – 16:20	Rizwan Sabir, Muhammad Mahabat Khan, Nadeem Ahmed Sheikh	Thermal Hydraulic Performance Augmentation of Dimpled Enhanced Tubes for Different Dimple Shapes Using Variation in Radial Dimples
16:20 – 16:40	Rizwan Sabir, Muhammad Mahabat Khan	Thermal hydraulic performance enhancement of U-tubes using inward ellipsoidal 45-degree dimples
16:40 – 17:00	Muhammad Ejaz, Imran Akhtar, Imran Raouf Malik	Simulation Based Design of a Polymerase Chain Reaction- Thermal Block

Closing Ceremony 17:00 - 17:15 PM

Networking and Refreshments 17:15 - 18:00 PM

Note :

- Present 15 mins followed by 5 mins Q & A session