

Conference Program Guide

International Conference on Engineering Sciences (ICES-2012)

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28-29 February, 2012

Lahore-Pakistan

Organized by

Institute of Chemical Engineering & Technology,

University of the Punjab, Lahore, Pakistan

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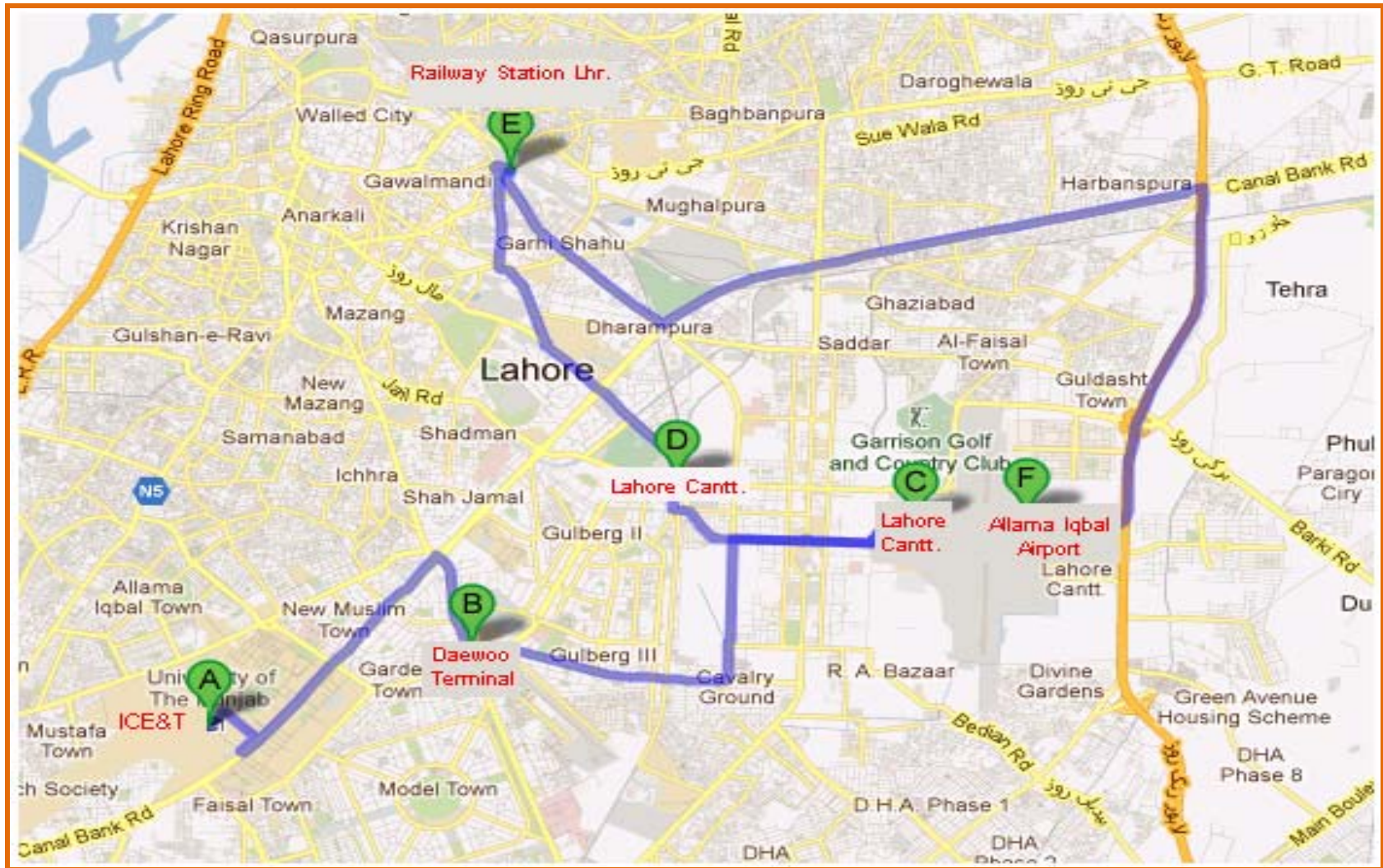
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Lahore- Cultural and Intellectual Centre of Pakistan

Lahore has been the capital of Punjab for nearly 1,000 years and commonly known as cultural, academic and intellectual centre of Pakistan. For 200 years, beginning from about 1525 AD, Lahore remained a thriving cultural centre of the great Mughal Empire, when the city was beautified with palaces, gardens, monuments and mosques. During the British regime, many monuments sprang up in Lahore which blended beautifully with the Mughal, Gothic and Victorian styles of architecture.

Lahore is also referred to as the cultural heart of Punjab as it hosts most of the arts, cuisine, festivals, film-making, music, gardening and intelligentsia of the country. It has the largest number of educational institutions in Punjab and some of the finest gardens in the continent. Lahore has always been a centre for publications, where 80 percent of Punjab's books are published and remains the foremost centre of literary, educational and cultural activity in Punjab.

Participants will enjoy the lovely weather, attractive culture, and architecture of Lahore like Badshahi Mosque, Wazir Khan Mosque, Shalimar Garden, Lahore Museum, Lahore Fort, and many more.



ICES-2012- Partners

Institute of Chemical Engineering & Technology (ICE&T)

Higher Education Commission (HEC)

University of the Punjab, Lahore (PU)

National Textile University (NTU)

National Fertilizer Cooperation (NFC)

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Water Engineering & Management Services (WEMS)

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Pakistan Institute of Chemical Engineers (PIChE)

Program Guide

Venue: Hall 1 - Seminar Room (ICE&T)

Morning, February 28, 2012

Registration	8:00AM
Opening Ceremony	8:30AM-9:30AM
Guest to be seated	8:30AM
Opening Session (Stage Secretary: Prof. Dr. Shahid Munir)	8:40AM
Recitation from Holy Quran	8:45AM
Welcome Note (Prof. Dr. S.Z. H. Rizvi, Director ICE&T)	8:50AM
Key Note Speech (Worthy Vice Chancellor, University of the Punjab)	9:00AM
Souvenir Distribution	9:10AM

Tea Break

9:30AM

Plenary Lecture - I

10:00AM-10:40AM

(Prof. Dr. Gordon E. Andrew, “*Biomass Gasification Boilers*”, University of Leeds, UK)

Plenary Lecture - II

10:40AM-11:20AM

(Prof. Dr. Mohamed Ibrahim Abdul Mutalib, “*Research Framework for Ionic Liquids in Green Technology*”, Universiti Teknologi PETRONAS, Malaysia)

Oral Session-1**SC-1**

Venue: Hall 1
Time: 11:30AM-1:10PM
Session chair Prof. Dr. Zahoor ul Hassan Rizvi
Session co-Chair Prof. Dr. Mahmood Saleem

SCA-1	Javeed A. Awan, Georgios M. Kontogeorgis, "Thermodynamics of Natural Gas Containing Organic Sulfur Species (OSS): VLE Measurements and Modeling Using the Cubic-Plus-Association Equation of State", Center for Energy Resources Engineering, Department of Chemical and Biochemical Engineering, Technical University of Denmark, Denmark.	11:30AM-11:50AM
SCA-2	S.K.Ansari, Seema Ansari , "Fuel and Energy with Fischer Tropsch Gasification Processing", ICPL- Pakistan.	11:50AM-12:10PM
SCA-3	Adnan Hayat and Zahir Khan, "Wind-Solar Hybrid Model For Reliable Energy Production In Rural Area Of Pakistan", Pakistan Telecommunication Company Limited (PTCL), Pakistan.	12:10PM-12:30PM
SCA-4	Rabya Aslam, Muhammad Rashid Usman, Muhammad Faisal Irfan, "Kinetics of NO oxidation over Cobalt based Catalyst", Institute of Chemical Engg. & Tech ,University of the Punjab, Lahore, Pakistan.	12:30PM-12:50PM
SCA-5	Mohamed A. Altaher, Hu li, Gordon E. Andrews, "Effect of Biodiesel & its blends co-firing with Natural gas on emissions in a low NO _x gas turbine combustors", University of Leeds, UK.	12:50PM-1:10PM

Lunch Break/ Poster session

1:10PM

Oral Session-2**SC-2**

Venue: Hall 1
Time: 2:00PM-4:00PM
Session chair Prof. Dr. Arshad Chughtai
Session co-chair Prof. Dr. A.R. Saleemi
Invited Talk 2:00PM-2:40PM
Engr. Saleem Ullah Malik (CEO WEMS Lahore)

SCB-1	Amna Anam Durrani, Zulfiqar A. Bhatti , Qaisar Mahmood, “Integrated treatment system and removal of oil contents from carwash industry wastewater using hexane and UASB”, Department of Environmental Sciences, COMSATS Institute of Information Technology, Abbottabad, Pakistan.	2:40PM-3:00PM
SCB-2	Engr. Ihsan Ullah, Najeeb Ullah, Shadman Khan, Inayat Ur Rehman, Inam Ullah “Optimization of the process for slaughterhouse waste Treatment by using design of experiment (DOE)”, Department of Chemical Engineering, University of Engineering and Technology Peshawar, Pakistan.	3:00PM-3:20PM
SCB-3	H.M.Anwaar Asghar, “Water treatment by adsorption and electrochemical regeneration” Institute of Chemical Engg. & Tech. University of the Punjab, Lahore, Pakistan	3:20PM-3:40PM
SCB-4	Mohamed A. Altaher, Gordon E. Andrew, Bernard M.Gibbs, Seyad A. Hadavi, “Comparison of particulate Mass and Size Distribution from Wood pellet and oil Fired Combustion”, University of Leeds, UK.	3:40PM-4:00PM

Oral Session-3**SC-3**

Venue: Hall 1
Time: 4:10PM-5:30PM
Session Chair Engr. Saleem Ullah Malik
Session Co-Chair Prof. Dr. Rafi Ullah Khan

SCC-1	Arshid Mahmood Ali, "Nano ZnO and Photo-Catalysis" Institute of Chemical Engg. & Tech. University of the Punjab, Lahore, Pakistan.	4:10PM-4:30PM
SCC-2	Sabir Sardar, Idrees Ahmad, Syed Shoaib Raza, Naseem Irfan, and Farrukh Shahzad, "Sensitivity of environmental parameters on cumulus parameterization schemes of MM5 for Pakistan", Pakistan Institute of Engineering & Applied Sciences (PIEAS), Nilore, Islamabad, Pakistan.	4:30PM-4:50PM
SCC-3	Bilal Haider, Rabya Aslam, Muhammad Rashid Usman, Waheed Afzal, Sarfraz Akram, Rafi Ullah Khan, Mahmood Saleem, "Densities and Volumetric Properties of Various Pure and Mixed Solvents", Institute of Chemical Engg. &Tech.University of the Punjab, Lahore, Pakistan	4:50PM-5:10PM
SCC-4	Muhammad Younas, Engr. Ihsan Ullah, Mohsin Raza Ali Khan, Muhammad Sher Khan, and Hassan Elahi "Improving the characteristics of biodiesel produced from mustered oil, Department of Chemical Engineering, University of Engineering and Technology Peshawar, Pakistan.	5:10PM-5:30PM

Day 1 Parallel Session

Oral Session-1

SM-1

Venue: Hall 2
Time: 11:30AM-1:10PM
Session Chair Prof. Dr. Rafiq Ahmad
Session Co-chair Dr. Muhammad Kamran

SMA-1	Fazal ur Rehman, Rizwan M. Gul, "Heat Treatment Cycle for the Manufacture of Aluminum Pots and Pans" Department of Mechanical Engineering, University of Engineering and Technology, Peshawar, Pakistan.	11:30AM-11:50AM
SMA-2	Shahid Khan Durrani, Anam Asif, Ubaid ur Rehman, Nazir Hussain, and Shahid Naveed, "Hydrothermal Synthesis and Characterization of nanosized Zinc Cobaltite Spinel Ceramic", 1Materials Division, Directorate of Technology, PINSTECH, Islamabad, Pakistan.	11:50AM-12:10PM
SMA-3	Tehmina Naz Humaira Masood Siddiqi, and Javeed Akhtar, "Synthesis and characterization of sized controlled ZnO Nanoparticles and their use in epoxy based nanocomposites", ¹ Department of Chemistry, Quaid-i-Azam University, Islamabad Pakistan	12:10PM-12:30PM
SMA-4	Muhammad Kamran, Salman Siddiqui, Syed Maaz Hasan, "Comparison among Conventional Blocks and Bricks with Compressed Stabilized Earth Blocks", National University of Science & Technology ,Rawalpindi, Pakistan.	12:30PM-12:50PM
SMA-5	Afaq Habib Piracha, Changming XU "Effect of sintering temperature on densification and mechanical properties of Talc addition in B4C by using Spark Plasma Sintering", GIK Institute of Engineering Sciences and Technology, Topi, NWFP, Pakistan.	12:50PM-1:10PM

Lunch Break/ Poster session

1:10PM

Oral Session-2**SM-2**

Venue: Hall 2
Time: 2:00PM-3:40PM
Session Chair Prof. Dr. Abdus Salaam
Session Co-Chair Engr. Aamir Nadeem Malik

SMB-1	K. M. Deen, I. H. Khan, R. Ahmad1, M. A. Virk, “Engineering Failure Analysis in Chemical Process Industries”, Department of Metallurgy & Materials Engineering, CEET, University of the Punjab, Lahore, 54590, Pakistan.	2:00PM-2:20PM
SMB-2	G. Abbas, F. Hussain, K.M. Deen, R. Ahmad, “Investigating the affect of welding on Electrochemical Behavior of SA516 (Grade 70)”, Department of Metallurgy & Materials Engineering, CEET, University of the Punjab, Lahore, 54590, Pakistan.	2:20PM-2:40PM
SMB-3	M. Z. Khalid, K. M. Deen, F. Hussain, R. Ahmad, M. A. Butt, “Electrochemical Comparison of API x70 steel surfaces in Base Oil”, Department of Metallurgy & Materials Engineering, CEET, University of the Punjab, Lahore, 54590, Pakistan.	2:40PM-3:00PM
SMB-4	M. Irfan, S. Alam, Waqas Iqbal, B. D. Soomro, “Optimization Of Passivation Conditions For Martensitic Steel Used For Surgical Instruments” PCSIR Labs Complex Ferozpur Road, Lahore, Pakistan.	3:00PM-3:20PM
SMB-5	M.Salman Siddiqui, Syed Maaz Hasan, and Kamran Kayani “Quick Return, Flexible Flap Angle Mechanism for a Flapping Wing Micro Air Vehicle” National University of Science & Technology , Rawalpindi, Pakistan.	3:20PM-3:40PM

Oral Session-3**SQ-1**

Venue: Hall 2
Time: 3:50PM-5:50PM
Session Chair Prof. Dr. Aamir Ijaz
Session Co-Chair Prof. Dr. Zafar Rashid

SQA-1	A.Imran, S. Alam, M. Irfan “Tribological and Mechanical Properties Study of Hard Coatings by Thermal Spraying Method”, PCSIR Laboratories Complex, Lahore,Pakistan.	3:50PM-4:10PM
SQA-2	Imran Ahmad, Sahar Noor, “Simulation Based Performance Analysis of a Ceramic Factory”, University of Engineering and Technology Peshawar, Pakistan	4:10PM-4:30PM
SQA-3	Imran Mir, Amjad Farooq and M. Junaid Arshad, “Social Match in Social Network, Pakistan.	4:30PM-4:50PM
SQA-4	A.Imran, S. Ramzan, S. Alam, M. Irfan, M.A. Qazi,“Case Study: Integration of Six Sigma with Total Quality Management for effective project/operations management”, PCSIR Laboratories Complex, Lahore-Pakistan.	4:50PM-5:10PM
SQA-5	M.Salman Siddiqui, Syed Maaz Hasan, and Kamran Kayani, “Stress Analysis for Active Flapping and Pitching Mechanism of an Micro Air Vehicle”, National University of Science & Technology , Rawalpindi, Pakistan.	5:10PM-5:30PM
SQA-6	Dr. Anwar Khitab, Muhammad Saad, “Recent advancements in Concrete” Department of Civil Engineering, Wah Engineering College, Pakistan.	5:30PM-5:50PM

Day 1 Parallel Session

Oral Session-1

SEE-1

Venue: Hall 3
Time: 11:30PM-1:15PM
Session Chair Dr. Shafay Shamail
Session Co-Chair Dr. Kamran Abid

SEEA-1	Shahid Latif and Rahat Ullah "Improving the Information Security using Multiple Spreading Codes in DSSS Technology", Sarhad University of Sciences and Information Technology SUIT, Peshawar Pakistan.	11:30AM-11:45AM
SEEA-2	Hafiz Muhammad Mudassir, Aihab Khan "Network Planning Framework using Genetic Algorithms: a Review", Department of Computing, Iqra University, Islamabad Pakistan.	11:45AM-12:00PM
SEEA-3	Waqas Haider, Aihab Khan " Compiler Optimization Frameworks: A Review", Department of Computing, Iqra University, Islamabad Pakistan.	12:00PM-12:15PM
SEEA-4	Abdul Rauf Bhatti, Abdul Ghafoor Bhatti, Yasir Saleem "On-Line Operational Database System for UET Power Plant", Electrical Engg. Deptt. GC University Faisalabad.	12:15PM-12:30PM
SEEA-5	Muhammad Aslam, M. Junaid Arshad, and Amjad Farooq "Cross-Platform Service for Nomadic Devices"	12:30PM-12:45PM
SEEA-6	Irum Javaid, Muhammad Shoaib, Aihab Khan "Role of Automated Management Tools to reduce software project failure", Department of Computing & Technology, Iqra University, Islamabad, Pakistan.	12:45PM-1:00PM
SEEA-7	Ayesha Muhammad, Aihab Khan "Analysis of Approaches used for Exception Handling", Department of Computing, Iqra University, Islamabad Pakistan.	1:00PM-1:15PM

Lunch Break/ Poster session

1:15PM

Oral Session-2**SEE-2**

Venue: Hall 3
Time: 2:00PM-4:00PM
Session Chair Dr. Abid Ali Minhas
Session Co-Chair Mr. Nafeel Aslam

SEEB-1	Arslan Ahmad, Imran Ali, Faiza Batool, Aihab Khan "Reasons of ineffective use of exception handling by novice and expert programmers of JAVA language"	2:00PM-2:15PM
SEEB-2	Waqas Ahmed, Zubair Ali, Shahid Aziz, Raessa Naseem, Hidayat-ullah Khan "Design and Simulation Omni-directional, Ultra Wide Band Circular Microstrip Patch Antenna", Army Public college of Management and Sciences, Rawalpindi, Pakistan.	2:15PM-2:30PM
SEEB-3	Aashir Waleed, Hasan Erteza Gelani "Horn Antenna Parameters Alteration By Lightning", Electrical Engg. Department UET Lahore.	2:30PM-2:45PM
SEEB-4	Sunbal Pervez, Rabeea Mirza, and Sadia Manzoor "Proactive Routing Supporting Multiple Physical Networks for Extended Coverage and Operations", Hamdard University, Islamabad Campus, Pakistan.	2:45PM-3:00PM
SEEB-5	Saima Shehzadi, M.K. Islam, M. Zafrullah "Comparison of Different Dispersion Decreasing Profiles to Reduce the Interaction between Co-Propagating Soliton Pulses", Hamdard University, Islamabad Campus, Pakistan.	3:00PM-3:15PM
SEEB-6	Farrukh Javed, Imran Shafi, and Asad Mahmood "Time Frequency Analysis based Radio Mode Identification for Cognitive Radios", Centre for Advanced Studies in Engineering, Islamabad, Pakistan.	3:15PM-3:30PM
SEEB-7	Hafiz Tahir Mustafa, Muhammad Omar Ashraf "WiMAX over Satellite"	3:30PM-3:45PM
SEEB-8	MTE Khan and ABO Mubinya "Impairments that Limits Data Transmission Distance in Optical Fiber", Department of Electrical Engineering, Cape	3:45PM-4:00PM

Day 2

February 29, 2012

Oral Session-1

SC-1

Venue: Hall 1
Time: 9:00AM-10:40AM
Session Chair Prof. Dr. M.Ibrahim Abdul Mutalib
Session co-chair Prof. Dr. Shahid Munir

SCD-1	Al Jumaiah O., Andrew E. Gordon, Jimez A., Duhoon N.R. & Phylaktou H., "Low ventilation pool fires", University of Leeds, UK.	9:00AM-9:20AM
SCD-2	Shafqat Nawaz, KhurramShahzad, SumairaKanwal and N. Sheikh, "Effects of Moisture and Coal Blending on HardgroveGrindability Index of Pakistani Coals", Centre for Coal Technology, University of the Punjab, Lahore, Pakistan.	9:20AM-9:40AM
SCD-3	Syed Muzammil, Waqas Ahmed, and S.M. Fattah Moin Jah, "Coal Water Slurry In Energy Sector", KESC Pakistan.	9:40AM-10:00AM
SCD-4	M. Suleman Tahir, Ikram Ullah Khan, M. Usama Ali, Sharjeel Fayyaz, "Feasibility study of biogas production from animal dung, municipal and agri - waste and to develop the regional energy resources of Pakistan", NFC, Institute of Engineering and Fertilizer Research Faisalabad.	10:00AM-10:20AM
SCD-5	Imran Ashraf, Sumaira Kanwal, M. Khurram Shehzad, N. Sheikh, S. Munir,"Upgradation of Dandot Coal by heavy Media separation", Centre for Coal Technology, University of the Punjab, Lahore,Pakistan	10:20AM-10:40AM

Tea Break

10:40AM

Oral Session-2**SC-2**

Venue: Hall 1
Time: 11:00AM-1:00PM
Session Chair Prof. Dr. Javed Rabbani
Session co-Chair Engr. Arif Jamil
Invited Talk 11:00AM-11:40AM
(Prof. Dr. M. Ibrahim Abdul Mutalib, Malaysia)

SCE-1	Al- Sayegh W.A., Aljumaih O., Andrew G.E. & Phylaktou H., Electrical Cable Fires using the Cone Calorimeter for Toxic Gas Investigations”, University of Leeds, UK.	11:40AM-12:00PM
SCE-2	Shahid Naveed, Abdullah Malik, Muhammad Akram, Wajeaha Kiran, “Suitability of Auto Shredder Residue (ASR) as a Fuel Source”, University of Engineering & Technology, Lahore, Pakistan.	12:00PM-12:20PM
SCE-3	M. S. Tahir, M. Saleem,S.R.malik, J.R. Khan, M. Siebenhofer “UV-radiation in Wet-tube Electrostatic Precipitator (WESP), Department of Chemical Engineering and Environmental Technology, Graz University of Technology, Graz, Austria.	12:20PM-12:40PM
SCE-4	Wajahat Ullah Khan Tareen, Mohammad S Akbar, Gareth Taylor, “Investigation of large-scale Energy Storage for Wind farms”, School of Engineering and Design, Brunel University, London, United Kingdom.	12:40PM-1:00PM

Lunch Break/ Poster session

1:00PM

Oral Session-3**SC-3**

Venue: Hall 1
Time: 2:00PM-4:40PM
Session Chair Prof. Dr. Niaz Ahmed
Session Co-Chair Prof. Dr. A.K Durrani
Invited Talk 2:00PM-2:40PM
(Prof. Dr. Gordon E. Andrew, UK)

SCF-1	Sohaib Ahmad, Hafiz Asghar Ali, Hafiz Abdul Mannan, Abdul Sattar, Arshad Chughtai, "Fischer-Tropsch Synthesis in a Fixed Bed Tubular Reactor using Cobalt and Iron Catalysts", " Institute of Chemical Engg. & Tech. University of the Punjab, Lahore, Pakistan	2:40PM-3:00PM
SCF-2	Abdul Ghafoor Bhatti, Abdul Rauf Bhatti, Ijaz Ahmad Ch., Muhammad Naheed Javed, "Energy Crisis in Pakistan, Adaptation and Mitigation Measures", GC University Faisalabad.	3:00PM-3:20PM
SCF-3	Engr. Ihsan Ullah, Asad Ali Khan, Jawad Mustafa, Muhammad Yasir Khan, Zafar Mehood, "Optimizing operations of counter flow cooling tower using statistical experimental design" Department of Chemical Engineering, University of Engineering and Technology Peshawar, Pakistan.	3:20PM-3:40PM
SCF-4	Batool Bibi, Hajra Nasim, Mohammad Younas, "Performance Evaluation of Hollow Fiber Membrane Contactors for the Extraction of Aroma Compounds, Department of Chemical Engineering, University of Engineering & Technology, Peshawar, Pakistan.	3:40PM-4:00PM
SCF-5	Mohammad Younas, Batool Shabir, Hajra Nasim, "Hollow fiber membrane contactors: A novel separation technology for value added product industry", Department of Chemical Engineering, University of Engineering & Technology, Peshawar, Pakistan.	4:00PM-4:20PM
SCF-6	Farrukh Shahzad, Sabir Sardar, Muhammad Imran Ahmad, Naseem Irfan, "Numerical simulation of flow parameters of a flowing fluid through an experimental stack", University of Engineering and Technology, Peshawar, Pakistan.	4:20PM-4:40PM

Day 2 Parallel Session

Oral Session-1

SEE-1

Venue: Hall 3
Time: 9:00AM-10:30AM
Session Chair: Dr. Abid Ali Minhas
Session Co-Chair: Dr. Sabieh Anwar / Mr. Nafeel Aslam

Invited Talk: **Dr. Abid Ali Minhas** (Wireless Sensor Networks)

09:00 AM - 09:30 AM

SEEC-1	Muhammad Yasin, Pervez Akhtar, and Amir Hassan Pathan "Tracking Performance of Blind Algorithms in Rayleigh Fading Channel Model Using Smart Adaptive Antenna System in Digital Modulation Environment", National University of Sciences and Technology, Islamabad, Pakistan.	9:30AM-9:45AM
SEEC-2	Tanveer Saad, Aslam Muhammad, Junaid Arshad M., Farooq Amjad, Zia ul Qayyum "Emotional Modeling for Intelligent-agents in Process Industry", Department of CS&E, U. E. T., Lahore, Pakistan.	9:45AM-10:00AM
SEEC-3	Salman Afghani, Mohsin Ali, Sania Safdar "Smart Vest for Monitoring and Support of Medial Staff", APCOMS, Rawalpindi Pakistan.	10:00AM-10:15AM
SEEC-4	Lal Hussain , Imran Shafi, Raja Muhammad Ayaz Sadiq, Syed Ismail Shah, Jamil Ahmad "Real-time Emotion Recognition in Human Speech using Neural Networks", University of Azad Jammu and Kashmir, City Campus Muzaffarabad, Pakistan.	10:15AM-10:30AM

Tea Break

10:30AM

Oral Session-2**SEE-2**

Venue: Hall 3
Time: 11:00AM-1:15PM
Session Chair Dr. Tahir Izhar
Session Co-Chair Dr. Kamran Abid

SEED-1	Hammad Ghaffar, Syed Mohsin Ali, Ashir Waleed, Hassan Erteza Gellani "Economic and Environmental Viability of Hybrid Solar Vehicle in Pakistan", Electrical Engg. Department UET Lahore (Fsd Campus).	11:00AM-11:15AM
SEED-2	Athar Hanif, Imran Javed, Umar Farooq "Design and Control of 5 Robotic Arm for Education", Department of Electrical Engineering, The University of Lahore, Pakistan.	11:15AM-11:30AM
SEED-3	Muhammad Usman Asad, Umar Farooq, Ghulam Abbas "Design and Implementation of a Classical Controller for Self Balancing Robot", 1Lyon Institute of Nanotechnology CPE France.	11:30AM-11:45AM
SEED-4	Umar Farooq, Fahad Raza, Usama Tahir, Iqra Bilal, Abdul Shakoor "Sonar Based 2-D Indoor Mapping and Navigation of a Mobile Robot".	11:45AM-12:00PM
SEED-5	Umar Farooq, K. M. Hasan, Muhammad Usman Asad, Syed Omer Saleh "Fuzzy Logic Based Wall Tracking Controller for Mobile Robot Navigation", Department of Electrical Engineering, University of The Punjab Lahore Pakistan.	12:00PM-12:15PM
SEED-6	Muhammad Riaz ur Rehman, Gulistan Raja "MicroBlaze based Design of Lapped Biorthogonal Transform for JPEG XR Compression on FPGA", Department of Electrical Engineering University of Engineering and Technology Taxila, Pakistan.	12:15PM-12:30PM
SEED-7	Salman Afghani, Yasir Raza, and Bilal Haider "Low Cost Intelligent Arm Actuator Using Pneumatic Artificial Muscle with Biofeedback control", APCOMS, Khadim Hussain Road, Rawalpindi Pakistan.	12:30PM-12:45PM

SEED-8	Muhammad Riaz ur Rehman, Gulistan Raja "Implementation of Lapped Biorthogonal Transform for Image Compression", Department of Electrical Engineering University of Engineering and Technology Taxila, Pakistan.	12:45PM-1:00PM
SEED-9	Umar Farooq, Muhammad Amar, Ghulam Abbas, Muhammad Usman Asad "Neural Network Controller for Cartesian Plotter", Department of Electrical Engineering, University of The Punjab Lahore-54590 Pakistan.	1:00PM-1:15PM

Lunch Break/ Poster session

1:15PM

Oral Session-3**SEE-3**

Venue: Hall 3
Time: 2:00PM-3:15PM
Session Chair Dr. Tahir Izhar
Session Co-Chair Mr. Nafeel Aslam

SEEE-1	Ghulam Abbas, Umar Farooq, and Muhammad Usman Asad "Design and FPGA Implementation of 1-Degree-of-Freedom Discrete PID Controller for Power", Department of Electrical Engineering, University of the Punjab, Lahore-54590 Pakistan.	2:00PM-2:15PM
SEEE-2	Yasir Saleem, Tahir Izhar, and M. Junaid Arshad "Comparative Evaluation of Asymmetric Half Bridge Drive Modes for SRM", Department of Electrical Engineering, University of Engineering and Technology, Lahore, Pakistan.	2:15PM-2:30PM
SEEE-3	Iftikhar Ahmed Khan and Sheeraz Ahmed "Electronic Ballast Circuit Configurations for Fluorescent Lamps", Department of Electrical Engineering, University of Engineering and Technology, Peshawar.	2:30PM-2:45PM
SEEE-4	Hafiz Mustafa and W.Wang "Single Channel Music Sound Source Separation Based on Non-negative Matrix Factorization and Instrument Classification", Centre for Vision, Speech and Signal Processing (CVSSP) University of Surrey, UK.	2:45PM-3:00PM
SEEE-5	Muhammad Usman Asad, Umar Farooq, Syed Omer Saleh "Design and Implementation of Microcontroller Based Automatic Patient Assistant", Department of Electrical Engineering The University of Lahore, Pakistan.	3:00PM-3:15PM

Closing Remarks (Prof. Dr. Mahmood Saleem)

4:40PM