



Inauguration Session 09:00 to 11:30

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| 09:00 – 10:00 | Registration & Guests to be Seated |
| 10:00 – 10:05 | Arrival of Chief Guest |
| 10:05 – 10:10 | Recitation of the Holy Quran and Hadia Naat |
| 10:10 – 10:15 | National Anthem |
| 10:15 – 10:30 | Welcome Address by the Director |
| 10:30 – 10:55 | Address by the Chief Guest |
| 10:55 – 11:00 | Vote of thanks by the Dean |
| 11:00 – 11:30 | Poster Session and Refreshment |



Technical Session-I 11:30 to 12:30

Room – A			Room – B		
Session Chair: Prof. Dr. Shafqat Nawaz and Prof. Dr. Shahid Munir			Session Chair: Prof. Dr. Naseer Sheikh and Prof. Dr. Mahmood Saleem		
ID	Time	Title/Authors	ID	Time	Title/Authors
447	11:30 – 11:50	Bio-electrochemical conversion of CO₂ into biofuels and treatment of oily wastewater Farzeen Sheikh ¹ , Farhat Yasmeen ¹ , Humayun Ajaz ¹ , Aqsa Ahmed ¹ , Iftikhar Ahmed ² , Abdul Ghaffar ¹ , Hamid Raza ¹ ¹ Department of Chemistry, University of Engineering and Technology, Lahore ² Energy Research Center, COMSATS University Islamabad, Lahore Campus	493	11:30 – 11:50	The effects of coal blends and oxy-fuel combustion on the emission of particulate matter, SO_x and NO_x during pulverized coal combustion in drop tube furnace Shaukat Abbas, Hassan Zeb Centre for Coal Technology, University of the Punjab, Lahore
478	11:50 – 12:10	Parametric study of swirl and radial flow burners for comparison of thermal efficiency and pollution emission by using natural gas Ali Waqas, Hassan Zeb Centre for Coal Technology, University of the Punjab Lahore	464	11:50 – 12:10	Energy conservation and green building idea Akram Rashid Department of Electrical and Computer Engineering, Air University, Islamabad
470	12:10 – 12:30	Optimization of back surface reflector of thermophotovoltaic system Dr. Ali Hussain Kazim ¹ , Dr. Aqsa Shabbir ² ¹ Department of Mechanical Engineering, University of Engineering and Technology, Lahore ² Department of Electrical Engineering, Lahore College for Women University, Lahore	472	12:10 – 12:30	An investigating report for measuring thermal efficiency in pulverized coal fired power plant Bilal Mushtaq, Rida Fatima, Mahmood Saleem Centre for Coal Technology, University of the Punjab, Lahore

Prayer 12:30 – 13:30

Lunch 13:30 – 14:30



Technical Session-II 14:30 to 15:50

Room – A			Room – B		
Session Chair: Prof. Dr. Rafi Ullah Khan and Prof. Dr. Abdullah Khan Durrani			Session Chair: Prof. Dr. Syed Nadir Hussain and Dr. Hamid Sattar		
ID	Time	Title/Authors	ID	Time	Title/Authors
494	14:30 – 14:50	Synergistic effect by co-pyrolysis of coal with sugarcane bagasse and wheat straw Azka Abdur Rehman, Naseeruddin Sheikh, Shahid Munir, Mahmood Saleem Centre for Coal Technology, University of the Punjab, Lahore	477	14:30 – 14:50	Kinetic modeling and compositional analysis of filter press mud from sugar industry waste Aiman Umer Hayat ¹ , Iqra Shakeel ^{1,2} , Yousuf Jamal ¹ ¹ Institute of Environmental Sciences and Engineering, National University of Sciences and Technology, Islamabad ² School of Chemical and Materials Engineering, National University of Sciences and Technology, Islamabad
466	14:50 – 15:10	Implementing EU's air quality directives: A case study of Pakistan's airpocalypse Zarmina Khan Department of Environmental Sciences, Quaid-i-Azam University, Islamabad	451	14:50 – 15:10	Biomass based steam power plant - A case of brassica as fuel Adnan Sarwar, Muhammad Sarfraz Akram Centre for Coal Technology, University of the Punjab, Lahore
457	15:10 – 15:30	Comparative study of coal cleaning by different physical methods Muhammad Asif, Hassan Zeb Centre for Coal Technology, University of the Punjab, Lahore	474	15:10 – 15:30	Carbon aerosols to attenuate solar irradiance Aqsa Shabbir ¹ , Ali Hussain Kazim ² ¹ Department of Electrical Engineering, Lahore College for Women University, Lahore ² Department of Mechanical Engineering, University of Engineering and Technology, Lahore
471	15:30 – 15:50	Industrialization and climate change: A distributional analysis across regions Amina Qureshi, Muhammad Jamil School of Economics, Quaid-i-Azam University, Islamabad	455	15:30 – 15:50	Production of bio-fuel from sewage sludge of a municipal wastewater treatment plant using hydrothermal liquefaction Sana Fatima, Hassan Zeb Centre for Coal Technology, University of the Punjab, Lahore

Prayer Break 15:50 – 16:10



Technical Session-III 16:10 to 17:10

Room – A			Room – B		
Session Chair: Prof. Dr. Amir Shafeeq and Dr. Majid Majeed Akbar			Session Chair: Prof. Dr. H.M. Anwar Asghar and Dr. Javeed Ashraf Awan		
ID	Time	Title/Authors	ID	Time	Title/Authors
459	16:10 – 16:30	<p>p-Toluene sulfonic acid-catalyzed high yield esterification reaction for biodiesel production</p> <p>Muhammad Rizwan¹, Muhammad Sarfraz Akram¹, Fahad Rehman² ¹ Centre for Coal Technology, University of the Punjab, Lahore ² Department of Chemical Engineering, COMSATS University Islamabad, Lahore</p>	473	16:10 – 16:30	<p>Study of combustion characteristics of indigenous coals using TGA</p> <p>Muhammad Saad Ullah, Aysha Kanwal, Hafiz Abdul-Wahab, Mahmood Saleem Centre for Coal Technology, University of the Punjab, Lahore</p>
490	16:30 – 16:50	<p>Up-gradation of coal by using Diester table</p> <p>Amir Sohail¹, Javaid Akhtar², Khuram Shahzad² ¹ Centre for Coal Technology, University of the Punjab, Lahore ² Institute of Chemical Engineering & Technology, University of the Punjab, Lahore</p>	454	16:30 – 16:50	<p>Establishment of local coal inventory based on detailed physical, chemical and advanced analytical investigation</p> <p>Ayesha Hanif Centre for Coal Technology, University of the Punjab, Lahore</p>
458	16:50 – 17:10	<p>Torrefaction of biomass for the reduction of chlorine and sulphur</p> <p>Afifa Moeen, Hassan Zeb Centre for Coal Technology University of the Punjab, Lahore</p>	460	16:50 – 17:10	<p>Experimental study on thermogravimetric analysis of biomasses</p> <p>Sonam Ibrahim, Khuram Shahzad Centre for Coal Technology, University of the Punjab, Lahore</p>

Closing and Certificate Distribution 17:10 – 17:40



Poster Presentations

ID	Title/Author	ID	Title/Author
462	Experimentation study to investigate the effects of ground water depletion and contamination on environment and energy consumption: An overview Tayyab Usman Center for Coal Technology, University of the Punjab, Lahore	484	Production of biochar from agriculture waste biomass Amir Hayat Centre for Coal Technology, University of the Punjab, Lahore
469	Decentralized electric power delivery for rural electrification in Pakistan Shehroz Khan Centre for Coal Technology, University of the Punjab, Lahore	485	Study of durability of different coatings on anodeless gas network Talat Mahmood Centre for Coal Technology, University of the Punjab, Lahore
480	Study of production of biodiesel from animal fat Rida Sajjad Centre for Coal Technology, University of the Punjab, Lahore	486	Restriction of commercializing of fuel cell technologies Affan Inam Rana Centre for Coal Technology, University of the Punjab, Lahore
481	Desulfurization of coal through electrochemical process using alkaline and neutral electrolyte and different metallic electrodes Muhammad Zahid Centre for Coal Technology, University of the Punjab, Lahore	488	Efficiency improvement of titanium dioxide based dye-sensitized solar cells Shahid Iqbal Centre for Coal Technology, University of the Punjab, Lahore
482	Manufacturing of brick from fly ash with the strength of 3000 psi Rana Wasif Naeem Centre for Coal Technology, University of the Punjab, Lahore	489	Municipal solid waste for energy generation and its existing management practices in Pakistan Muhammad Waqas Centre for Coal Technology, University of the Punjab, Lahore
483	Bioenergy generation and wastewater treatment by biological fuel cell Muhammad Hamid Centre for Coal Technology, University of the Punjab, Lahore	491	Over the air wireless charging Abdur Rehman Khan Centre for Coal Technology, University of the Punjab, Lahore
495	Hot gas filtration: influence of temperature on filtration behavior and dust properties, hot gas filter systems and applications Waqas Majeed, Mahmood Saleem Institute of Chemical Engineering & Technology, University of the Punjab, Lahore	496	Process parameters optimization of corrugated plant and design optimization of corrugated box Assad Ali, Mahmood Saleem Institute of Chemical Engineering & Technology, University of the Punjab, Lahore
		467	Synthesis of graphene oxides from indigenous coal by solution-phase technique Muhammad Adnan Sami, Muhammad Adnan Khaliq, Hassan Zeb, Mahmood Saleem, Rizwan Haider Centre for Coal Technology, University of the Punjab, Lahore

