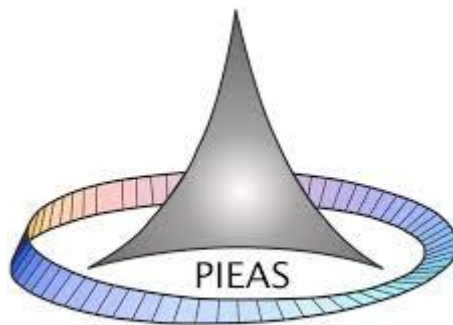




**International Symposium on
Chemical and Mineral Resource
Engineering
(24 - 26 September 2019)**



**Organized by:
Department of Chemical Engineering
PIEAS, PO Nilore, Islamabad**

Tuesday (September 24, 2019)

08:30-10:00	Registration		
10:00-10:45	Inauguration		
10:45-11:15	Tea Break		
11:15-13:15	Plenary Session in PIEAS Auditorium		
13:15-14:00	Lunch and Prayers Break		
Technical Session 1			
	Session Chairs: Prof. Dr. Wei WANG (Chinese Academy of Sciences, Beijing), Engr. Younas Khan (Askari Cement, Ltd.)		
1.	14:00-14:30	Prof. Dr. Igor Ivitskiy	Modelling and production of intelligent polymeric composite materials
2.	14:30-15:00	Dr. Muhammad Taqi Mehran	xxxxxxxxxxxxxxxxxxxxxxxxxxxx
3.	15:00-15:30	Dr. Shahzad Maqsood Khan	Polymer Materials; A Progressive Trend for Development of Modern Civilization
4.	15:30-15:45	Ghulam Mursalin	Development of Aspirine using Supercritical Carbon Dioxide (CO ₂)

Wednesday (September 25, 2019)

Technical Session 2

**Session Chairs: Prof. Dr. Faïçal Larachi (Laval University, Quebec, Canada),
Dr. Shahzad Maqsood Khan (Punjab University)**

1.	09:00-09:30	Prof. Dr. Faïçal Larachi	Understanding the behavior of packed columns on-board floating vessels – Quest for robust “marinisation” design methods
2.	09:30-10:00	Dr. Aamir Alaud Din	Computationally optimized synthesis of reverse osmosis polyamide membranes for seawater desalination: A molecular dynamics perspective
3.	10:00-10:15	Mr. Shakir Yaqoob	Study of effect of wall corrugation on heat transfer for single and multiphase flow
4.	10:15-10:30	Mr. Saqib Shahzad	Multifluid/Simulations of Polydispersed fluidized suspensions
5.	10:30-10:45	Mr. Danyal Qasim	Calculation of Drag and Lift Coefficients for Different Orientations of Rod like Particles, using smoothed profile method
	10:45-11:00	Tea Break	

Technical Session 3

**Session Chairs: Prof. Dr. Igor Ivitskiy (National Technical University, Ukraine),
Dr. Muhammad Taqi Mehran (NUST, Islamabad)**

6.	11:00-11:30	Prof. Dr. Baojin Qi	Study on the Bubble Distribution and Heat Transfer Enhancement on Sierpinski Hydrophobic / hydrophilic Fractal Pattern
7.	11:30-12:00	Dr. Muddasar Habib	Sustainable Separation Systems
8.	12:00-12:30	Dr. Usman Ali	Carbon Capture for Coal, Biomass and Gas Fired Power Plants – An Overview
9.	12:30-12:45	Mr. Adeel Arif	Optimal selection of integrated electricity generation system with reduced GHG emissions
10.	12:45-13:00	Dr. Naseer Ahmed Khan	Effect of reaction pressure and transition metal on the reduction of nitrous oxide (N ₂ O)
	13:00-14:00	Lunch and Prayers Break	

Technical session 4

Session Chairs: Prof. Dr. Baojin Qi (Xi’an Jiaotong University, China), Dr. Aamir Alaud Din (KFUEIT, Rahim Yar Khan)

11.	14:00-14:30	Prof. Dr. Wei WANG	Multiscale Computational Fluid Dynamics of Fluidized Beds
12.	14:30-15:00	Dr. Shamsul Qamar	Numerical Approximation of compressible two-phase flow models
13.	15:00-15:30	Engr. Younas Khan	Quality control & quality assurance in industrial processes
14.	15:30-15:45	Dr. Syed Naveed Ul Hasan	A computational study of hindered settling models for predicting density-based separation in a fluidized bed separator

Thursday (September 26, 2019)

Technical Session 5

**Session Chairs: Prof. Dr. Safak Gokhan Ozkan (Istanbul University, Turkey),
Dr. M. Zaka Emad (UET Lahore)**

15.	09:00-09:30	Prof. Dr. Rini Asnida Abdullah	Application of technologies for better slope assesment
16.	09:30-10:00	Dr. Nimat Ullah Khattak	Radon Gas in the Environment: A Conspicuous Mate or Dreadful Enemy?
17.	10:00-10:30	Dr. Ishaq Amad	Correlation between alumina and silica in bauxite
18.	10:30-10:45	Mr. Muhammad Husnain	Seismo-tectonic modeling of test site in islamabad
	10:45-11:00	Tea Break	

Technical Session 6

**Session Chairs: Prof. Dr. Rini Asnida Abdullah (Universiti Teknologi, Malaysia),
Dr. Nimat Ullah Khattak (University of Peshawar)**

19.	11:00-11:30	Prof. Dr. Safak Gokhan Ozkan	Recent trends on ultrasound use for advancing froth flotation
20.	11:30-12:00	Dr. Safi ur Rehman	Development and Deployment of Mining and Minerals Informatics System
21.	12:00-12:30	Dr. M. Zaka Emad	Blast vibration monitoring in underground mines
22.	12:30-12:45	Ms. Iqra Paerveen	Applicaton of GIS and remote sensing techniques for structural evaluation of test site in islamabad
23.	12:45-13:00	Mr. Khaleeq Ahmad	Comparitive analysis of ordinary kriging and polygonal method for estimation of ore reserves: A case study
	13:00-14:00	Lunch and Prayers Break	

Technical Session 7

Session Chairs: Dr. Adnan Hamid (PIEAS)

24.	14:00-14:30	Mr. Xiaowen Huang	Engineering education for intenational students at IPE, CAS
25.	14:30-15:00	Dr. Atta Ullah	Talk on activities of PIEAS and DChE
26.	15:00-15:45	Closing ceremony and certificate distribution	