



1ST International Conference on



SEPARATION PROCESSES (ICSP 2017)

NISHAT HOTEL, LAHORE

• APRIL 26~27, 2017



ICSP-2017
Conference PROGRAM

Organizing Committee

CONFERENCE PATRONAGE

Prof. Dr. Raheel Qamar (T.I) Rector CIIT

Prof. Dr. Qaisar Abbas Director, CIIT Lahore

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Dr. Asim Laeeq Khan Co-Chair

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Mr. Akmal Rana Member

Mr. Zaman Tahir Member

Mr. Muhammad Raees Member

Mr. Zufishan Shumair Attari Member

Mr. Mohsin Ali Organizing Secretary

CONFERENCE VENUE

The Grand Ball Room – A

Nishat Hotels & Properties Limited

Trade and Finance Center Block, Near Expo Center

Abdul Haq Road, Johar Town, Lahore

Tel: +92(042)-111-001-007

Email: ICSP@ciitlahore.edu.pk

LANGUAGE

The official conference language is English.

REGISTRATION HOURS

Wednesday, April 26 8:30 AM – 9:30 AM

INTERNET ACCESS

Internet Service is available inside conference rooms.

Conference Structure and Events

PROGRAM

The technical program includes invited plenary and keynote lectures, oral sessions and poster presentations.

ORAL PRESENTATIONS

Oral presentations are scheduled for 12 minutes of presentation and 3 minutes of Q&A.

All presentations should be in PowerPoint or PDF formats. A laptop and LCD projector will be available in all sessions. Each presenter is requested to bring the presentation in a USB storage device and upload it to the laptop before the session begins. All presentations will be destroyed at the end of the session.

We urge all presenters to use the provided laptop for presentation so as to minimize changeover times.

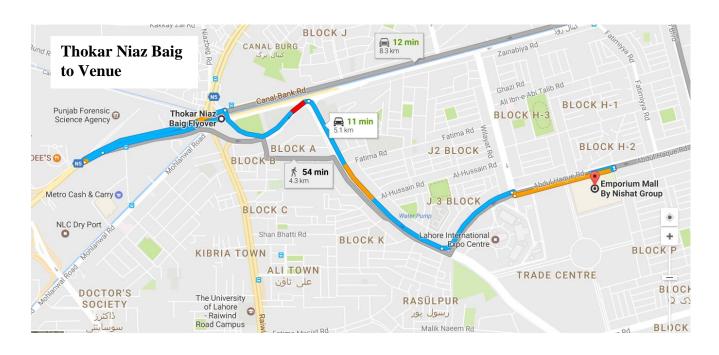
Since we have a very tight and fully packed program, we request all the delegates to be punctual and respect the allocated timeslots.

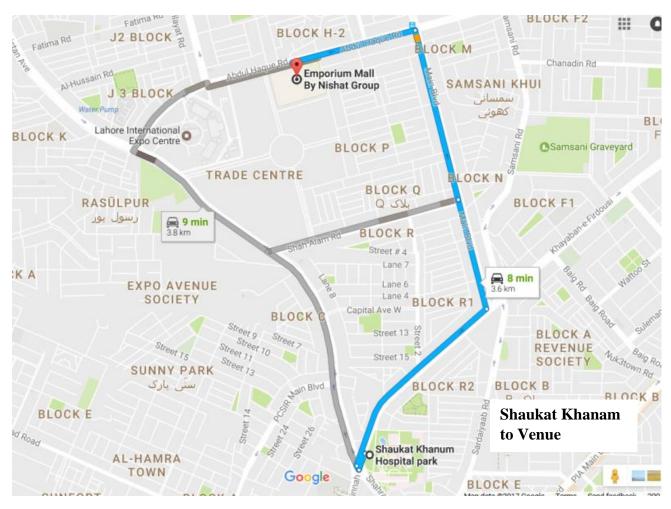
In case of absence of some presenter, next presenter shall be called for presentation.

POSTER SESSION

The dimensions of the poster board will be 594 mm (Width) x 841 mm (Height) (or equivalently 23.3 in (W) x 35 in (H)). This corresponds to A1 Size in portrait layout. Posters are to be put up according to the assigned Paper IDs.

Road Map of Conference Venue





Plenary Speakers

Prof. Dr. Paul F. Luckham Imperial College, London, United Kingdom





Prof. Dr. Ivo F. J. Vankelecom *KU Leuven, Belgium*

Prof. Dr. Xianfeng LiChinese Academy of Science, Dalian, China





Prof. Dr. Roil BiladUniversity Technology Petronas, Malaysia

Detailed Program

Wednesday, April 26

08:30 - 09:30	Registration			
09:30 - 10:00	Inauguration/ Opening Ceremony			
	09:30 Recitation of Holy Quran			
	09:35 Welcome Address by Conference Chair			
	09: 40 Address of Chief Guest			
	09:55 Vote of Thanks by Director, CIIT Lahore			
	Plenary Session-I			
10:00 - 10:40	High-throughput membrane technology at KU Leuven			
	Prof. Dr. Ivo F. J. Vankelecom			
	KU Leuven, Belgium			
10:40 - 11:10	Coffee/Tea Break (Networking + Poster Presentations)			
	Plenary Session-II			
11:10 – 11:50	Utilizing the layer by layer technique for the large scale manufacture of nanocapsules for controlled release and Cadmium extraction			
	Prof. Dr. Paul F. Luckham			
	Imperial College, London, UK			
11:50 – 12:30	Porous membrane in secondary battery application			
	Prof. Dr. Xianfeng Li			
	Dalian Institute of Chemical Physics, Chinese Academy of Sciences, China			

12:30 – 13:10	Fouling factor in membrane module design					
	Prof. Dr. Roil Bilad					
	University Technology Petronas, Malaysia					
13:10 - 14:15	Lunc	h Break				
	Technical Session I: Membrane Technology	Technical Session II: Absorption & Adsorption processes				
	Venue: TBD	Venue: TBD				
	Session Chair: Prof. Dr. Nasir M. Ahmad	Session Chair: Prof. Dr. Mahmood Saleem				
	Co-Chair: Prof. Dr. Murid Hussain	Co-Chair: Prof. Dr. Robina Farooq				
14:15 – 14:30	Advanced membranes based on intrinsically conducting polymers: Pervaporation and Ion-exchange applications	Adsorption-A low cost separation process for the removal of environmental pollutants				
	Prof. Dr. Asif Ali Qaiser	Prof. Dr. Haq Nawaz Bhatti				
	UET Lahore	Agriculture University, Faisalabad				
14:30 – 14:45	Techno-economic analysis of membrane based post-	Title to be decided				
	combustion CO₂ capture process	Prof. Dr. Basit Yameen				
	Prof. Dr. Arshad Hussain NUST, Islamabad	LUMS, Lahore				
14:45 – 15:00	Developing Solvent Resistant Nanofiltration (SRNF) Membranes for Treatment of Dye Solutions	Cu-oxide Coatings as Promising Electrode Materials for Microbial Fuel Cell				
	Prof. Dr. Fozia Tabassum Minhas	Prof. Dr. Nehar Ullah				
	Woman University, Multan	UET Peshawar				

15:00 – 15:15	Performance Evaluation of a Full-Scale Membrane	Combustion of Low Rank Coal with Municipal Solid Waste	
	Bioreactor (MBR) Plant from Unsteady to Steady State Condition	(MSW) and Impact on NO _x	
		Duef De Coleman Tabia	
	Prof. Dr. Sher Jamal	Prof. Dr. Suleman Tahir	
	NUST, Islamabad	University of Gujrat, Gujrat	
15:15 – 15:30	Membranes for Science & Engineering Applications	Separation of Hydrogen Sulfide from Natural Gas Using Low Cost Adsorbent	
	Prof. Dr. Tahir Jamil	Prof. Dr. Zaheer Aslam	
	University of Punjab, Lahore	UET Lahore	
15:30 – 15:45	Multifunctional weak polyelectrolyte multilayers for membrane applications	Bi-metallic decorated carbon nanotubes for polluted water treatment	
	Dr. Shazia Ilyas	Sadiya mushtaq	
	KU Leuven, Belgium	UET Lahore	
	The Urban Unit Lahore		
15:45 – 16:00	High CO₂ selective 3-(trimethoxysilyl)propan-1-aminium acetate based supported ionic liquid membrane	Aspen Hysys Simulation of Heat Integrated Cryogenic Plate and Packed Distillation Columns for Air Separation	
	Ayesha Ilyas	Abdul Qadir	
	COMSATS, Lahore	NFC Faisalabad	
16:00 – 16:20	Tea/Coffee Break (Networking + Poster Presentation)		

	Technical Session III: Membrane Processes	Technical Session IV: Novel Separation Techniques
	Venue: TBD	Venue: TBD
	Session Chair: Prof. Dr. Tahir Jamil	Session Chair: Prof. Dr. Haq Nawaz Bhatti
	Co-Chair: Prof. Dr. Asim Laeeq Khan	Co-Chair: Prof. Dr. Moeen-ud-Din Ghauri
16:20 – 16:35	Functional Polymer Membranes for Water Purification: Design, Development, and Applications	Advances in particle separation from flue gases
	Prof. Dr. Nasir M. Ahmad	Prof. Dr. Mehmood Saleem
	NUST, Islamabad	University of Punjab, Lahore
16:35 – 16:50	A review of the characterization of the synthetic polymeric membranes and fouled membrane: from the microscopic to macroscopic scale Prof. Dr. Rahma Tamime	Design, Mathematical Modelling, and Parametric Analysis of a Solar Desalination System with Humidification and Dehumidification
	Lahore School of Economics, Lahore	Rasikh Tariq HITEC University, Taxila
16:50 – 17:05	Solid Electrolyte Membrane Reactors for Efficient Synthetic Fuel Production Prof. Dr. Asif Mahmood	Pore scale numerical simulation of microfiltration of slotted pore filters via COMSOL Multiphysics - deformation behaviour of oil droplet
	PIEAS, Islamabad	Nabeel Ahmed UET Peshawar
17:05 – 17:20	Preparation of Polysulfone Membranes Modified with Polyethylene Glycol Functionalized Carbon Nanotubes for Antifouling Applications	Synthesis, characterization and application of iron nanoparticles based cellulose adsorbent for heavy metals removal from wastewater
	Arsalan Khalid	Attarad Ali
	King Fahd University, Saudi Arabia	Quaid-e-Azam University, Islamabad

17:35 – 17:45		Risk Management and Analysis of Silica Dust Hazards in Local Stone Crushing Industry Wajid Ali UET Peshawar	
17:45 – 18:00	Working Sessions Closing remarks & Prize Distribution		
20:00	Conference Gala Dinner		

Thursday, April 27

	Session I		
09:30 - 10:30	Annual Meeting of Pakistan Membrane Society		
	Prof. Dr. Asad U. Khan		
10:30 - 11:00	Coffee/Tea Break		
11:00 – 12:00	Graduate Seminar		
	Prof. Dr. Paul Luckham, Prof. Dr. Ivo F. J. Vankelecom, Prof. Dr. Xianfeng Li, Prof. Dr. Roil Bilad		
12:00 – 13:00	Round Table Panel Discussion		
13:00 – 13:30	Closing Remarks		
13:30 – 14:30	Lunch Break		

Poster Presentations

Sr. #	Paper ID	Presenter	Affiliation	Abstract Title
1	Paper_05	Ahmad Mukhtar	NFC	Textile Industry Wastewater Treatment using DAP, Urea, and Polymer
			Faisalabad	AQUATREAT @AR 06
2	Paper_06	Umar Shafiq	PU Lahore	Coagulation Flocculation Based Biological Treatment of Tannery
				Industry Wastewater using Potash Alum
				and Drewfloc
3	Paper_07	Atia Mubeen	NFC Faisalabad	Removal of Residual Carcinogenic Dyes from Industrial Wastewater
				using Flocculation Technique
4	Paper_09	Zaheer Asghar	University of	Modified sewage sludge for sustainable development
			Agriculture, Faisalabad	
5	Paper_10	Naveed Ahmad	University of agriculture	Leather industry effluent treatment using Phycoremediation and
			Faisalabad	Green Micro-algae
6	Paper_12	Muhammd Sadiq	UET	Preparation and Characterization of Mixed Matrix Memberane (MMM)
			Lahore	of Polyvinyl Chloride (PVC) and Titanium-dioxide (TiO2) for Water
				Desalination
7	Paper_13	Engr. Usman Ghani	UET Peshawar	Investigation of the Effect of Microwaves on Minerals Liberation and
				Grindability
8	Paper_16	Muhammad Sajid	UOG	Removal of methylene blue from the aquous solution of cannbis.sative
			Gujrat	(HEMP through adsorption
9	Paper_18	Muhammad	UET	Fouling reduction techniques in membrane bioreactor: A review
		Zeeshan	Taxila	
10	Paper_19	Saqib Iqbal Ch.	PU	Treatment of Ground Water using Sterilization, Softeners, Reverse
			Lahore	Osmosis, and Filtration
11	Paper_20	Sikandar Rafiq	CIIT	Hydrophilic nanocomposite membrane for carrier-mediated transport
			Lahore	for post-combustion CO2 capture
12	Paper_21	Hassan Anwar	Sharif College of	Desulfurization and Parametric Study of Bituminous Coal Via Froth
		Saleemi	Engineering &	Flotation Technique
			Technology	

13	Paper_22	Asma Javeed	PU Lahore	Synthesis and Application of Polyether & Polyester based
				Polyurethanes as Redox Catalyst
14	Paper_23	Micaiah Cyril Das	UET Peshawar	Plant Design for Bio-Ethanol fermentation from potato peels waste
				Simultaneous Saccharification and Fermentation of Starch by Very High
				Gravity process
15	Paper_25	Iqra Yasmeen	CIIT Lahore	ZIF-67 Ionic liquid based mixed matrix membranes for gas separation
16	Paper_27	Sidra Saqib	CIIT Lahore	Synthesis and characterization of CNT mixed matrix membrane
17	Paper_28	Usama Shakil	PIEAS	Simulation of Pre-Combustion CO2 Capture for IGCC Power Plants
			Islamabad	
18	Paper_29	Saba khan	Lahore School of	ZIF-7/PSF mixed matrix membranes: synthesis and performance for
			Economics	removal of chromium from water
19	Paper_31	Sidratel Muntaha	UET	Comparative Study of J-T Valve, Mechanical Refrigeration and Turbo
			Peshawar	Expander for Cryogenic Process
20	Paper_32	Uzair Tariq	UET	Desulphurization of Indigenous coal by Oil Agglomeration
			Peshawar	
21	Paper_33	Mian Yahya Gul	UET Peshawar	Desulphurization of coal from Cherat by froth flotation
22	Paper_35	Tanzila Anjum	Lahore School of	Preparation and Characterization of antifouling Mixed Matrix
			Economics	Ultrafiltartion Membrane tailored by UiO-66 and Zeolite4A for the
				Removal of Humic Acid
23	Paper_36	Sudeeha Ishaq	Lahore School of	Mixed Matrix Membranes comprising of BioMOF-1 in Polysulfone
			Economics	matrix for CO2 Separation
24	Paper_37	Waleed Yaseen	University of	Photocatalytic activity of Magnetite TiO2-rGO nanocomposite as
			Agriculture Faisalabad	photocatalyst for the degradation study of aquatic pollutants
25	Paper 38	Muhammad Sher	UET Peshawar	Sensitivity analysis of key parameters of a Amine Sweetening Unit
		Khan		
26	Paper 39	Muhammad Imran	UET Peshawar	Statistical design of experiments for co-pyrolysis of used diapers and
	_	Ahmad		waste plastics
27	Paper_40	Kiran Mustafa	The Women University	Optimization of Kinetic Variables for the Permeation of Dye across Bulk
	' -		Multan	liquid Membrane

28	Paper_41	Saima Noreen	University of Agriculture Faisalabad	Continuous study for removal of Actacid Orange-RL dye using the agropolymer composite
29	Paper_42	Maria Tabasum	The Women University Multan	Remediation of Dye from Textile Wastewater using Polymer Inclusion Membrane
30	Paper_44	Muhammad Imran Ahmad	UET Peshawar	Process design for production of fuel by co-pyrolysis of used diapers and waste plastics
31	Paper_45	Muhammad Raees	CIIT Lahore	MOF-5 based mixed matrix membranes for solvent resistant nanofiltration
32	Paper_46	Zaman Tahir	CIIT Lahore	Tuning the Gas Separation Performance of Fluorinated and Sulfonated PEEK membranes by incorporation of Zeolite 4A
33	Paper_47	Shafiq Ur Rehman	CIIT Lahore	Synthesis, characterization and application of MOF based solid acid catalyst: an esterification of oleic acid
34	Paper_48	Zunaira Habib	NUST Islamabad	Surface modification and characterization of polyamide nanofiltration membrane for better performance and and anti-biofouling properties
35	Paper_49	Farah Munawar	CIIT Lahore	Zeolitic Imidazolate Framework-71 (ZIF-71) based Mixed Matrix Membrane for Reverse Osmosis
36	Paper_52	Dr. Muhammad Imran Ahmad	UET Peshawar	Extraction of Sweetener from Stevia Leaves
37	Paper_54	Rabia Farooq	University of Karachi	Biotransformation of steroids as key step towards the production of new drugs at industrial level
38	Paper_55	Dr. Waseem	Hazara University Mansehra Pakistan	Adsorption efficiency of anatase TiO2 nanoparticles against cadmium ions
39	Paper_58	YASMIN NERGIS	Bahria University, Karachi	Reed Bed Technology and Recharging on Groundwater: How Can We Mitigate the Climate Effect of Coastal Areas?
40	Paper_59	Saad Ullah Khan	UET Peshawar	Prediction of Size Distribution of Crude Oil Drops Through a Non- Converging Slotted Pore Membrane
41	Paper_60	Mohsin Najam	CIIT Lahore	Investigation of meso-porous silica (KIT-6 and SBA-15-S) effect on property balance of Styrene Butadiene Rubber(SBR) nanocomposites

42	Paper_61	Umar Wahid	UET Peshawar	Computational Analysis of Membrane Oscillation and its Influence on Fouling
43	Paper_62	Qazi Sohaib	UET Peshawar	Desalination of water: Design, Fabrication and Performance Evaluation of Active Solar Still Coupled with Solar Collector
44	Paper_63	Usama Shakeel	CIIT Lahore	Synthesis and characterization of high surface area mesoporous HPW/KIT-6 Catalysts for the esterification of oleic acid
45	Paper_65	Fazli Saeed	UET Peshawar	Synthesis of Geopolymeric Membrane Using locally available Rice Husk Ash as a Source Material

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