



5TH PAK-TURK INTERNATIONAL CONFERENCE ON CHEMICAL SCIENCES

December 04-05, 2025

Organized by: NCEAC, University of Sindh, Jamshoro, Pakistan

Hybrid Conference (In-person+Virtual)

Day-2 : Friday 5th December 2025

9:00 a.m. - 9:35 a.m.	Plenary Lecture (Prof. Salimuzzaman Siddiqui Auditorium) ICCBS
9:45 a.m. -12:20 p.m.	Concurrent Technical Sessions-III
12:20 p.m. – 1:30 p.m.	Plenary Lectures (Prof. Salimuzzaman Siddiqui Auditorium) ICCBS
1:30 p.m. – 3:00 p.m.	Prayers & Lunch Break
3:00 p.m. – 4:30 p.m.	Concurrent Technical Sessions-IV
4:30 p.m. - 5:30 p.m.	Concluding Ceremony

Chair: Prof. Dr. Mustafa Soylak		Co-Chair: Prof. Dr. Jamil Anwar	
Time	Speaker/ Title		
9:00 a.m. - 9:35 a.m.	Prof. Dr. Fatih Demirci, Anadolu University, Faculty of Pharmacy, Pharmacognosy Department PL-4: Phyto-Aroma-Dermatological Applications		
9:35 a.m. – 9:45 a.m.	Short Break		

Concurrent Technical Session-IIIA <i>(Prof. Salimuzzaman Siddiqui Auditorium)</i> ICCBS		Online Session-I
Chair: Prof. Dr. Najma Memon		Co-Chair: Prof. Dr. Uzma Ashique
Time	Speaker/ Title	
9:45 a.m. – 10:05 a.m.	Prof. Abdou Lachgar Department of Chemistry, Wake Forest University, NC, USA KN-11: Green Hydrogen Production Using Semiconductor Heterojunctions Technology	
10:05 a.m – 10:25 am	Dr. Haider A. Khwaja Department of Environmental Health Sciences, College of Integrated Health Sciences, University at Albany, Albany, New York, United States KN-12: Association of Ambient Fine Particulate Air Pollution (PM2.5) with Cardiovascular Morbidity in a Megacity Karachi, Pakistan	
10:25 a.m. – 10:40 am	Ms. Maha Sharif Department of Chemistry, Wake Forest University, Winston-Salem, 27109, North Carolina OP-15: Visualizing Ultrafast Spectral and Spatial Heterogeneity in Photoexcited Nanomaterials via Broadband Transient Absorption Microscopy	
10:40 a.m. -11:00 a.m.	Prof. İbrahim Ender Mülazımoğlu Necmettin Erbakan University, Chemistry Department, Konya, Türkiye KN-25: From Waste Leather to Electrochemical Sensors: Green Approach For Sustainable Electroanalytical Chemistry	
11:00 a.m. – 11:20 a.m.	Prof. Dr. Karim Adil Mohammed VI Polytechnic University, Ben Guerir, Morocco KN-14: Fluorinated MOF Materials for Gas Separation	
11:20 a.m. – 11:40 a.m.	Prof. Dr. Ayşe Müge Andaç Molecular Science Research Hub, Imperial College London, 82 Wood Lane, London KN-15: Molecular Recognition-Based Biosensors	

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11:40 a.m. – 12:00 p.m.	Prof. Dr. İsmail Murat Palabıyık Ankara University, Türkiye KN-26: Green Synthesis of Nanoparticles from Plant-Based Wastes: Characterization and Evaluation of Biological Activities
12: 00 p.m. – 12:20 p.m.	Prof. Ayşen Demir Mülazımoğlu Necmettin Erbakan University, Konya KN-27: The use of pencil graphite electrodes as sensor electrodes in electroanalytical chemistry
Concurrent Technical Session-IIIB L.E.J Hall A	
<i>Chair: Prof. Dr. Nasreen Fatima</i>	<i>Co-Chair: Dr. Muhammad Imran Malik</i>
Time	Speaker/ Title
9:45 a.m. – 10:05 a.m.	Prof. Dr. Syed Ghulam Musharraf H.E.J. Research Institute of Chemistry, International Center for Chemical and Biological Sciences, University of Karachi, Karachi, Pakistan. KN-16: High-throughput and Sensitive Detection of Plant and Human-based Metabolome: Few interesting Mass Spectrometry-based Pipelines
10:05 a.m – 10:25 am	Prof. Duri Şehvar ÜNAL Istanbul University, Istanbul, Türkiye KN-17: Genotoxic Impurities in Drug Substances
10:25 a.m. – 10:45 am	Prof. Dr. Saima Q. Memon Dr. M. A Kazi Institute of Chemistry, University of Sindh, Jamshoro, 76080, Sindh, Pakistan KN-18: Deep Eutectic Solvents in Catalysis and Material Development
10:45 a.m. -11:05 a.m.	Prof. Mustafa Topkafa Konya Technical University, Vocational School of Technical Sciences KN-19: The Graphene Oxide Derivative Liquid Chromatography Stationary Phases And Application Of Carotenoids Separation
11:05 a.m. – 11:20 a.m.	Dr. Zainab Manzoor Memon Liaquat University of Medical & Health Sciences Jamshoro, 2University of Sindh, Jamshoro OP-16: A green ultrasonic-assisted liquid–liquid microextraction technique based on deep eutectic solvents for flame atomic absorption spectrometer determination of trace level of lead in tobacco and food samples
11:20 a.m. – 11:35 p.m.	Dr. Nazar Hussain Kalwar Institute of Chemistry, Shah Abdul Latif University Khairpur OP-17: Copper Oxide-Based Anodes for Highly Sensitive Electrochemical Detection of Amlodipine
11:35 p.m. – 11:50 p.m.	Dr. Naved Iqbal International Center for Chemical and Biological Sciences, University of Karachi OP-18: Unveiling sustainable methodology for the synthesis of Dihydropyrimidinones utilizing Biginelli reaction
11:50 p.m. – 12:05 p.m.	Dr. Ayisha Aman Ullah Department of Biotechnology, Jinnah University for Women OP-25: Fabrication of a calcium alginate–based immobilization system for novel alkaline β -amylase derived from bacillus subtilis
12:05 p.m. – 12:20 p.m	Dr. Jamshed Ali Institute of Chemistry, Shah Abdul Latif University, Khairpur Mir's-66020. Sindh, Pakistan “Dispersive Solid Phase OP-30: Microextraction Method for the Determination of Arsenic in Food Samples Using a Gadolinium Oxide based Block Copolymer as a composite adsorbent

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Concurrent Technical Session-IIIC <i>L.E.J Hall B</i>		Health & Life Sciences / Medicinal Chemistry	
<i>Chair: Professor Mustafa YILMAZ</i>		<i>Prof. Dr. Rafia Azmat</i>	
Time	Speaker/ Title		
9:45 a.m. – 10:05 a.m.	Prof. Dr. Aysegul Golcu Istanbul Technical University, Istanbul, Türkiye KN-20: Voltammetric Strategies for Quantitative Determination of some Anti-Diabetic Drugs		
10:05 a.m. – 10:25 am	Dr. Khalida Parveen Institute of Chemistry, Shah Abdul Latif University Khairpur, Pakistan KN-21: Development and Validation of an RP-HPLC Method for the Determination of Organic α -Keto Acids in Serum of Diabetic Patients		
10:25 a.m. – 10:45 am	Dr. Zaheer Ahmed Gpge Timergara Higher Education, Archives And Libraries Department Government Of Khyber Pakhtunkhwa, Pakistan KN-22: Hypoxia and pH responsive polyamino acid-based polymers: synthesis, characterization and drug delivery applications		
10:45 a.m. – 11:05 a.m.	Prof. Imtiazullah Khawaja Department of Physics, Hazara University Manasehra, KPK, Pakistan KN-23: Morphological Properties of Laser Irradiated Biomaterials		
11:05 a.m. – 11:25 a.m.	Prof. Dr. Abdul Majeed Khan FEDERAL URDU UNIVERSITY, Karachi, Pakistan KN-24: Development of Green Energy Technologies: An Alternative Approach to Development of Green Energy Technologies: An Alternative Approach to Promote Green Energy and Waste Management		
11:25 p.m. – 11:40 a.m.	Dr. Abdul Rauf Jamali Department of Materials Engineering, NEDUET, Karachi, University of Karachi OP-27: Mitigation of Thermal Fatigue Cracking in Automotive Brake Discs (GCI, FC250-A) : A Case Study on Material Optimization Using Alloyed Grey Cast Iron		
11:40 a.m. – 11:50 a.m.	Dr. Shagufta Noreen Department of Biotechnology, Jinnah University for Women OP-28: Exploring textile dyes and effluent-treating bacteria: isolation, characterization, and phytotoxic impact of treated effluent		
11:50 a.m. – 12:05 p.m.	Dr. Qurat-ul-ain Shaikh Institute of Chemistry, Shah Abdul Latif University, Khairpur Mir's, Sindh 66020, Pakistan OP-24: Silk fibroin-graphene oxide composite membranes for selective separation of ions and molecules from water		
12:05 p.m. – 12:20 p.m.	Dr. Muhammad Farooque Lanjwani Department of Human & Rehabilitation Sciences, The Begum Nusrat Bhutto WomenUniversity, Sukkur, Sindh, Pakistan OP-29: Photocatalytic degradation of Sudan black B dye by using synthesized SnO2 nanoparticles as a catalyst: factorial design model		

12:20 p.m. - 1:30 p.m.

Plenary Lectures

(Prof. Salimuzzaman Siddiqui Auditorium) ICCBS

1:30 p.m. – 3:00 p.m.

Prayers and Lunch Break

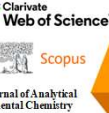
3:00 p.m. – 4:30 p.m.

Concurrent Technical Sessions-IV

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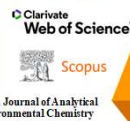
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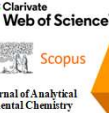
Hybrid Conference (In-person+Virtual)

Chair: Prof. Dr. Mustafa Tuzen		Co-Chair: Prof. Dr. Syed Ghulam Musharraf	
Time	Speaker/ Title		
12:20 p.m. - 12:55 p.m.	Prof. Dr. Mustafa YILMAZ Department of Chemistry, Selcuk University, Konya 42075, Turkiye PL-5: Nanobasket Fluorescent calixarenes: Drug carriers and anticancer properties		
12:55 p.m. – 1:30 p.m.	Prof. Dr. Mustafa Soylak Erciyes University, Faculty of Sciences, Department of Chemistry, 38039 Kayseri, Turkey PL-6: Green extraction procedures for trace species from environmental samples		
Concurrent Technical Session-IVA (Prof. Salimuzzaman Siddiqui Auditorium) ICCBS		Online Session-II	
Chair: Prof. Dr. Mustafa Topkafa		Co-Chair: Prof. Dr. Abdul Majeed Khan	
Time	Speaker/ Title		
3:00 p.m. - 3:20 p.m.	Prof. Dr. Renata Adami Department of Physics "E.R. Caianiello", University of Salerno, Italy KN-13: Hydrocarbon from waste cooking oil by electro-assisted reaction process		
3:20 p.m. – 3:40 p.m.	Prof. Naseer Ahmed Khan University Of Engineering and Technology, Peshawar, Pakistan KN-28: Process development for recovering and purifying vanadium pentoxide (V ₂ O ₅) from spent sulphuric acid catalysts Online		
3:40 p.m. – 3:55 p.m.	Dr. Ismail Tarhan Selçuk University, Konya OP-20: Investigation of the effects of high intensity ultrasound on the secondary structures of proteins using FTIR spectroscopy		
3:55 p.m. – 4:10 p.m.	Dr. Fatih Durmaz Selçuk University, Konya OP-21: Investigation of some chemical removals in domestic wastewater treatment plants		
4:10 p.m. – 4:20 p.m.	Dr. Muhammad Balal Arain Department of Chemistry, Faculty of Sciences, Erciyes University, 38039 Kayseri, Türkiye OP-22: g-C ₃ N ₄ @LDH Nanocomposite for Efficient trace and toxic metal Extraction from Environmental and Food Samples		
Concurrent Technical Session-IVB L.E.J Hall A		Artificial Intelligence, Data Science & Automation	
Chair: Prof. Dr. Sirajuddin		Co-Chair: Prof. Firdous Imran Ali	
Time	Speaker/ Title		
3:00 p.m. - 3:20 p.m.	Prof. Dr. Rafia Azmat Department of Chemistry, University of Karachi, Pakistan KN-29: Role of Artificial Intelligence (AI) in Research: A Human AI Collaboration		
3:20 p.m. – 3:35 p.m.	Dr. Faraz H. Buririo ProAI Global Karachi, Pakistan OP-23: AI Models for Basic Sciences: Where the Journey Begins		
3:35 p.m. – 3:50 p.m	Dr. Arshad Fazal Department of Chemistry, University of Karachi		

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OP-26: Appraising Wintertime Gaseous Air Pollution Episodes in Karachi: Diurnal Variability, Meteorological Effects, and Health Risk Assessment	
Concurrent Technical Session-IVC <i>L.E.J Hall B</i>	Industrial Chemistry & Process Innovation
Chair: Prof. Dr. Fatih Demirci	Co-Chair: Prof. Dr. Farooq Anwar
Time	Speaker/ Title
3:00 p.m. - 3:20 p.m.	Dr. Tahir Rafique Applied Chemistry Research Center, PCSIR laboratories Complex Karachi, Pakistan KN-30: Ensuring Casting Integrity: The Critical Role of Silica Sand for the Automobile Industry
3:20 p.m. – 3:35 p.m.	Dr. Gulfam Nasar BUIITEMS, Quetta Pakistan OP-10: Synthesis and characterization of ferrite-polymer nanocomposites
3:35 p.m. – 3:50 p.m.	Dr. Sadaf Iqbal Department of Chemistry, University of Karachi, Karachi-75720, Pakistan OP-7: Modeling and simulation of biocompatible composite material for wastewater treatment
4:30 p.m. – 5:30 p.m.	Concluding Ceremony (Prof. Salimuzzaman Siddiqui Auditorium) ICCBS
5:30 p.m. - 5:50 p.m	Farewell Tea

We hope attending this conference was fruitful for your career growth!

Allah Hafiz

Güle Güle

Good Bye

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