

The Institution of Engineers Pakistan **Karachi Centre**

NED University of Engineering & Technology, Karachi TECHNICAL SESSION PROGRAMME

Jointly Organizing

4th International Conference on Advanced Materials and Process Engineering

18th & 19th December, 2024 - Karachi - Pakistan

THEME

Innovations in Materials and Processes for Sustainable Development



NED International Alumni

Pakistan

in collaboration with

Federation of Engineering Institutions of Islamic

Countries (FEIIC)

ASHRAE Pakistan

The American Society of Heating, Refrigerating and

Air-Conditioning Engineers

Federation of Engineering Institutions of South & Central Asia (FEISCA)

FEISCĂ





Media Partner ENGINEERING REVIEW





University of Karachi

PROGAMME

	at Sye	INAUGURAL SESSION d Mahmood Alam Auditorium, Main Campus, NEDUET, Karachi (Wednesday 18th December, 2024)
	2:30 - 3:00 pm	Registration
	3:00 - 3:05 pm	Recitation from the Holy Quran
		National Anthem
	3:10 - 3:15 pm	Welcome Address by Engr. Prof. Dr. Syed Amir Iqbal Dean Faculty of Chemical and Process Engineering, NEDUET, Karachi & Co-Convener 4th ICAMPE-2024
	3:15 - 3:20 pm	Address by
		Engr. Sohail Bashir Chairman IEP, Karachi Centre
	3:20 - 3:25 pm	Address by
		Engr. Prof. Dr. Muhammad Tufail Pro- Vice Chancellor, NEDUET & Convener 4th ICAMPE-2024
	3:25 - 3:40 pm	Industrial Speech by
		Mr. Mustafa Jaffar, CEO, Dynea Pakistan Ltd.
	3:40 - 3:55 pm	Keynote Speech by
		Dr. Salman Raza Naqvi (T.I)
		Karistad University Sweden (Online)
	3:55 - 4:10 pm	Keynote Speech by
		Dr. Yasemin Tabak
		Tubitak, UME National Metrology Institute , Turkey
	4:10 - 4:15 pm	
		Engr. Amir Zameer Ahmed Khan
	4.45 4.00	Secretary General The Institute of Engineers Pakistan
	4:15 - 4:20 pm	· · · · · · · · · · · · · · · · · · ·
		Engr. Farhat Adil
	4:20 - 4:25 pm	President, The Institution of Engineers Pakistan
	4.20 - 4.25 pm	Engr. Prof. Dr. Sarosh H. Lodi
		Vice Chancellor, NEDUET & Patron 4th ICAMPE-2024
	4:25 - 4:40 pm	Address by Guest of Honour
		Address by Guest of Honoral Address by the Chief Guest
	4.40 - 4.50 pili	Syed Nasir Hussain Shah
		Minister: Energy, Planning & Development, Government of Sindh
l	4:50 - 4:55 nm	Presentations of Conference Mementos/Certificates
ľ		Vote of Thanks by
		Engr. Dr. Syed Ali Ammar Taqvi
		Secretary,4th ICAMPE-2024
	E-00 mm	Defreehmente

Refreshments

5:00 pm

TECHNICAL SESSIONS at NEDUET, Main Campus, University Road, Karachi (Thursday 19th December, 2024)

09:00 - 09:30 am

Breakfast at Department of Civil Engineering, NEDUET, Karachi

09:30 - 11:30 am Technical Session-1 Innovations in Material Science and Sustainable Engineering at Ashraf Habibullah A/V Hall, Department of Civil Engineering ,NEDUET, Karachi

> 11:30 - 11:45 am Tea Break

at Department of Civil Engineering, NEDUET, Karachi

11:45 - 1:30 pm Technical Session- 2 Advancements in Chemical Engineering and Sustainability at Ashraf Habibullah A/V Hall, Department of Civil Engineering ,NEDUET, Karachi

11:45 - 1:30 pm Technical Session-2 (Parallel) Emerging Materials and Technologies for Sustainability and Health at Civil Lecture Hall, Deptt. of Civil Engineering, NEDUET, Karachi

> 1:30 - 2:00 pm Zohar Prayer & Lunch break

2:00 – 4:00 pm Technical Session-3 Innovative Approaches to Environmental; Remediation At Ashraf Habibullah A/V Hall, Department of Civil Engineering ,NEDUET, Karachi

4:10 - 5:20 pm

Closing Session at Ashraf Habibullah A/V Hall, Department of Civil Engineering ,NEDUET, Karachi

CLOSING SESSION

A	t Ashraf Habibullah A/V Hall, Department of Civil Engineering, NEDUET, Karachi on Thursday 19th December, 2024
4:00 - 4:05 pm	Recitation from the Holy Quran
4:05 - 4:10 pm	National Anthem
4:10 - 4:15 pm	Conference Highlights by Engr. Prof. Dr. Saud Hashmi Chairman, Department of Chemical Engineering, NEDUET, Karachi & Co-Convener,4th ICAMPE-2024
4:15 - 4:20 pm	Address by Engr. Sohail Bashir Chairman, IEP, Karachi Centre
4:20 - 4:25 pm	Address by Engr. Prof. Dr. Muhammad Tufail Pro- Vice Chancellor, NED University of Engineering & Technology, Karachi & Convene r4th ICAMPE-2024
4:25 - 4:40 pm	International Keynote Speaker Prof. Dr. Antonio Feteira Sheffield Hallam University UK
4:40 - 4:45 pm	Address by Engr. Dr. Sarosh H. Lodi Vice-Chancellor, NEDUET, Karachi & Patron 4th ICAMPE-2024
4:45 - 4:50 pm	Address by the Guest of Honor Dr. Nazeer Hussain D.G & Regional Director, HEC, Karachi
4:50 - 5:00 pm	Address by Chief Guest Engr. Asim Murtaza Khan CEO, Sindh Petroleum Limited & President NEDIAN Association Pakistan
5:00 - 5:05 pm	Presentation of Chairman IEP Medal for Best Paper
	Presentations of Conference Mementos / Certificates
5:10 - 5:15 pm	Vote of Thanks by Engr. Farooq Arbi Secretary, IEP, Karachi Centre
5:15 - 5:20 pm	Group Photo
5:20 pm	Hi-Tea





TECHNICAL SESSIONS

	Day 02: Thursday 19th December, 2024
Te	echnical Session – I "Innovations in Material Science and Sustainable Engineering"
	At Ashraf Habibullah A/V Hall, Department of Civil Engineering ,NEDUET, Karachi
	Session Chairs: Prof. Dr. Abdul Waheed Bhutto (DUET)
	Dr. Yasemin Tabak (NMI, Turkey)
	Engr. Dr. Shagufta Ishteyaque (IEP)
08:30 – 09:00 am	Registrations
09:00 – 09:30 am	Breakfast
00.00 00.00 am	At Department of Civil Engineering ,NEDUET, Karachi
09:30 – 09:45 am	International Keynote Speaker
	Prof. Dr Hakan ATES, Ghazi University, Turkey, The Future of Thin Film Coatings: A Scientific Review of Applications in Defense, Medicine and Electronics
09:45 – 10:00 am	International Keynote Speaker
	Mr. Mohammad Faizul Yahya, Ph.D, Director University Transformation, Universti Tehnologi Mara, Malaysia
	National Plenary Speaker
10.00 10.15	CHEMICAL SECURITY AND SAFETY RISK ASSESSMENT: PAKISTAN PERSPECTIVE
10:00 – 10:15 am	Prof. Dr. Ing. Naveed Ramzan, Dean of Faculty of Chemical, Metallurgical and Polymer Engineering of University of Engineering and Technology, UET, Lahore
	National Plenary Speaker
	FUNCTIONAL NANOMATERIALS IN THIN FILM COMPOSITE MEMBRANES
10:15 10:30 am	Engr. Prof. Dr. Muhammad Younas, Department of Chemical Engineering, UET, Peshawar
	National Plenary Speaker
	POWERING THE FUTURE: INTEGERATED ENERGY PLANNING FOR THE SUSTAINABLE WORLD
10:30-10:45 am	Prof. Dr. Ageel Ahmed Bazmi, Department of Chemical Engineering, COMSATS University Islamabad
	Lahore Campus
	AMPE-01
10:45 – 11:00 am	Production of Perfume Encapsulated-Microcapsules Through Phase Inversion Precipitation
	Authors: Areebah Siddiqui, Bilal Kazmi, Farnaz Salahuddin, Aqsa Asif
	AMPE-02
11:00- 11:15 am	3D-Printing Performance of Strain Hardening Cementitious Composites Of Different Uhmwpe
	Fibers In Correlation With Rheology
	Authors: Maryam Mudasir, and Sun Yan AMPE-03
11:15 -11:30 am	Design And Development of Efficient Aerated Windrow Composting Pilot Plant
11.10-11.00 alli	Authors: Sadaf Rani, Shagufta Ishtiaque, Haroon Khan and Usama Abid
	AMPE-04
11:15 – 11:30 am	Synthesis And Investigation of Epoxy Resin/Carbon Fiber Composite For Structural Retrofitting Applications
	Authors: Fatima Jahangir, Saud Hashmi, Bilal Zahid, Dua Nisar, Asad Ur Rehman,
	Shamsoon Fareed, Aasia
11:30 am	Shield and Certificate Distributions to all Session Chairs & Speakers/Authors
11:30 - 11:45 am	Tea Break
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	Technical Session – II " Advancements in Chemical Engineering and Sustainability"
	At Ashraf Habibullah A/V Hall, Department of Civil Engineering ,NEDUET, Karachi
	Session Chairs: Prof. Dr. Naveed Ramzan (UET, Lahore)
	Dr. Fayyaz Hussain, (NEDUET)
	Engr. Ayaz Mirza (IEP)
11.15 10.00	National Plenary Speaker
11:45 – 12:00 noon	Dr. Muhammad Atiq ur Rehman, Institute of Space Technology, Islamabad
12:00 – 12:15 pm	Invited Talk by Industrial Speaker
12.00 – 12.15 pm	Mr. Hani Krimani , United Energy Pakistan
	AMPE-05
12:15 – 12:30 pm	Arduino controlled study of different impellers on dispersion polymerization of methyl
12.10 – 12.00 pm	methacrylate to poly methyl methacrylate (PMMA) particle
	Authors: Saad Nadeem, Muhammad Umair Shaikh
	AMPE-06
12:30 – 12:45 pm	Waste-to-Value: Sustainable Ammonia Production through Industrial and Municipal Waste
12100 12110 pm	Integration
	Authors: Syed Muhammad Mustafa Rizvi , Bilal Kazmi
	AMPE-07
12:45 – 13:00 pm	PID-Based Control On VCM Process
	Authors: Tuba Siraj Ansari, Dr. Syed Ali Ammar Taqvi
4.00 4.45	AMP-08
1:00 – :1:15 pm	Treatment of Textile Wastewater Using a Vertical Constructed Wetland System
	Authors: Shahzad Shaikh, Dr. Syed Ali Ammar Taqvi, Dr. Atif Mustafa
	AMPE-09
1:15 – 1:30 pm	A Design Project on Biomass Conversion into Energy Via Gasfication using Downdraft Gasifier
	Authors: Danish , Alina Sajid (Online)
11.20	
11:30 pm	Shield and Certificate Distributions to all Session Chairs & Speakers/Authors





TECHNICAL SESSIONS

	chnical Session - II (Parallel) "Emerging Materials and Technologies for Sustainability and Health" Civil Lecture Hall, Department of Civil Engineering NEDUET, Karachi
	Session Chairs: Prof.Dr. Zahoor ul Hussain Awan (NEDUET)
	Dr. Abdul Basit Saim (IST,Islamabad)
	Engr. M. Abbas Sajid (IEP)
	National Plenary Speaker Advanced Nanostructured Catalysts for Sustainable Energy and Environment
11:45 – 12:00 noon	Prof. Dr. Murid Hussain, Department of Chemical Engineering, COMSATS University Islamabad, Lahore Campus.
	Invited Talk by Industrial Speaker
12:00 – 12:15 pm	Mr. Sohail Malik, ENAR Petroleum Refining Facility AMPE-10
12:15-12: 30 pm	Process Simulation of Sustainable Edible Oil Refining with Life Cycle Assessment Authors: Zaha Naseem, Alia Ahrar and Fahim Uddin
12:30 – 12:45 pm	AMPE-11 Modeling Aerogels for CO ₂ Capture: Insights into Structure and Adsorption Dynamics Authors: Abdul Sami, Nurul Ekmi Rabat *, Khairiraihanna Johari, Noridah binti Osman,
	Siti Musliha Mat Ghani, Farman Ullah, Syed Muhammad Tariq (Online) AMPE-12
12:45 – 1:00 pm	Development of Magnetic Nanoparticles Inferred With 3-Aminobenzoic Acid to Detect Antibiotics In Human Blood
	Authors: Erum Hasan, and Syed Nawazish Ali AMPE-13
1:00 - 1:10 pm	Advances in the Optimization of Phenolic Compound Extraction from Moringa Leaves and Their Emerging Applications in Sustainable Packaging
	Authors: Arsalan Ahmed, Abeera Moin, Shagufta Ishteyaque
1:10 - 1:20 pm	AMPE-14 Synthesis of Radiative cooling material using Sustainable Polymeric Material Authors: Muhammad Ali Burney, Adeel ur Rehman, Shagufta Ishtiyaque
	AMPE-21
1:20 - 1:30 pm	Phragmite Karka Mediated Zinc Oxide Nanoparticles Application Alleviates Salinity Stress
<u>-</u> 0	By Modulating Plant Growth, Parameters In Sunflower Plant. Kainat Amin, Saud Hashmi, Department of Chemical Engineering, NEDUET, Karachi
1:30 pm	Shield and Certificate Distributions to all Session Chairs & Speakers/Authors
1:30 – 2:00 hours	Prayer and Lunch Break
	Technical Session – III "Innovative Approaches to Environmental; Remediation"
	At Ashraf Habibullah A/V Hall, Department of Civil Engineering ,NEDUET, Karachi
	Session Chairs: Dr. Aqeel Ahmed Bazmi (COMSAT, Islamabad)
	Dr. Murid Hussain (CUI, Lahore) Engr. Dr. Ali Dad Chandio (IEP)
	National Plenary Speaker
1:20 - 1:30 pm	Dr. Abdul Basit Saim
	Assistant Professor, Institute of Space Technology, Islamabad
	Invited Talk by Industrial Speaker
	Mr. Danival Zafar
	Mr. Daniyal Zafar Plant Operations, Tapal Tea Pvt. Ltd.
	Mr. Daniyal Zafar Plant Operations, Tapal Tea Pvt. Ltd. AMPE-15
	Plant Operations, Tapal Tea Pvt. Ltd. AMPE-15 Application of Bougainvillea Glabra mediated NiO/activated carbon nanocomposite to eliminate
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	Plant Operations, Tapal Tea Pvt. Ltd. AMPE-15 Application of Bougainvillea Glabra mediated NiO/activated carbon nanocomposite to eliminate cationic dye from industrial effluents Authors: Shahida Ghazala, Muhammad Saad, Hajra Tahir AMPE-16 Computational And Experimental Investigation of Dispersion and Dissolution In Pharmaceutical Powders Authors: Khizra Abdul Wadood (Online) AMPE-17
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