

Preface of the 6th Conference on Emerging Materials Processes [†]

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The 6th Conference on Emerging Materials and Processes (CEMP 2023) was held on 22–23 November 2023, at the School of Chemical and Materials Engineering (SCME), National University of Sciences and Technology (NUST), Islamabad, Pakistan “<https://cemp.scme.nust.edu.pk/index.html> (assessed on 3 March 2024)”.

High-profile international researchers from South Korea, China, Japan, the UK, Denmark, Finland, Poland, Ireland, and France participated in the conference. Their invaluable contributions significantly enriched the quality and depth of the discussions “<https://cemp.scme.nust.edu.pk/Invited%20Spk.html> (assessed on 3 March 2024)”.

The overwhelming response (Figure 1), both nationally and internationally, resulted in more than 120 presenters. This edition of *Materials Proceedings* features articles that successfully passed the rigorous review process. Additionally, 63 posters were showcased, with three outstanding posters recognized in categories such as Advanced Materials, Energy and Environment, and Modeling and Simulation.

We are thankful to our industrial partners, Bestway Cement, Haidri Beverages Ltd., Pak Glorious Enterprises, AM Scientific System, and E-Triangle Automation Company, for their generous financial support.

In the pursuit of strengthening the collaboration between academia and industry, a thought-provoking panel discussion titled “The Quest for Sustainability: Challenges and Prospects in Industry-University Collaboration”, took place on the second day of the conference. The discussion featured distinguished guest speakers: Dr. Shahid Rasheed (Former Executive Director, Centre of Excellence on China Pakistan Economic Corridor), Mr. Mirza Hussain (GM Dynea Chemical), and Mr. Safdar Khan Khattak (GM Bestway Cement). Their insights added depth to our exploration of sustainability in the collaborative landscape.

The following international speakers participated in the CEMP-23 (Figure 2).

The following themes were covered during the conference:

- Alternative technologies in green engineering;
- Modeling and simulation in the process industry;
- Artificial intelligence in the process industry;
- Material informatics;
- Computational fluid dynamics;
- Process intensification and optimization;
- Waste management and utilization;
- Electrochemical energy conversion and storage;
- Hydrogen production and utilization;
- Separation and purification technologies;
- Sustainability and circular economy;
- Polymer and composite materials;
- Advanced functional materials;



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- Biomaterials;
- Applied Catalysis;
- Nanotechnology;
- Ceramic and structural materials.



Figure 1. Participants of CEMP-23.



Figure 2. International speakers of CEMP-23.

The following committee members were involved in organizing the CEMP-23.

1. Dr. Iftikhar Ahmad;
2. Dr. Erum Pervaiz;
3. Dr. Muhammad Bilal Khan Niazi;
4. Dr. Khurram Yaqoob;
5. Dr. Sofia Javed;
6. Dr. Sarah Farrukh;
7. Dr. Muhammad Ahsan;
8. Dr. Muhammad Shoaib;
9. Dr. Amna Safdar;
10. Dr. Umair Sikandar;
11. Dr. Muhammad Siyar;

12. Dr. Muhammad Irfan;
13. Dr. Talha Masood;
14. Dr. Ameen Shahid;
15. Dr. Nouman Ahmad;
16. Dr. Waheed Miran;
17. Dr. Sher Ahmad;
18. Dr. Ayesha Raza.

We would also like to thank the sponsors (Figure 3) for supporting this event.



Figure 3. CEMP-23 sponsors.

Conflicts of Interest: The authors declare no conflicts of interest.

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