Preface: The Third International Conference on Advances in Mechanical Engineering 2023 (ICAME-23) †

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The third International Conference on Advances in Mechanical Engineering 2023 (ICAME-23) was held on 24 August 2023 by the Department of Mechanical Engineering, Capital University of Science and Technology (CUST). In ICAME-23, forty-three (43) national presenters presented their research papers physically in the Mechanical Engineering Department, Capital University of Science and Technology (CUST), whereas ten (10) international presenters along with four (4) keynote speakers did so online. ICAME is held annually and welcomes high-quality theoretical and empirical original research papers, case studies, and review papers from researchers, academicians, professionals, practitioners, and students from all over the world. All the articles have been single-blind reviewed.

ICAME-23 accepts research papers in the disciplines of:

- Experimental and computational fluid dynamics;
- Thermodynamics and heat transfer analysis;
- Machines and mechanisms;
- Design and solid mechanics;
- Manufacturing and production and industrial engineering;
- Engineering and technology management;
- Renewable energy and environmental engineering;
- Bioengineering;
- Materials and failure analysis;
- Other related fields.

The ICAME-23 conference provided a platform to the national and international speakers/participants to present their state-of-the-art research to diverse audiences from academia and industry. The international speakers were also offered an opportunity to participate virtually. For the complete details of the keynote speakers and conference program, please visit the official webpage of the conference, https://icame.cust.edu.pk.

The ICAME-23 advisory committee consists of

- Mr. Mian Amer Mahmood, Patron (Chancellor);
- Dr. M. Mansoor Ahmed, Co-Patron (Vice Chancellor);
- Dr. Imtiaz Ahmed Taj, General Advisor (Dean Faculty of Engineering);
- Dr. M. Mahabat Khan, Principal Advisor (Head, Department of Mechanical Engineering);
- Dr. M. Javed Hyder, Chair / Conference Secretary (Director Research, Department of Mechanical Engineering).

The ICAME-23 organizing committee consists of

- Dr. Salman S. Warsi;
- Dr. M. Irfan;
The conference proceedings are published in the Engineering Proceeding Journal of MDPI (Multidisciplinary Digital Publishing Institute), Switzerland. All the articles are individually indexed and are citable via Digital Object Identification (DOI). An electronic book of the conference proceedings with ISBN is also digitally available.

Four keynote speakers enlightened the participants and presenters of ICAME-23.

Keynote Speaker 1: Prof. Tim Wentz delivered the talk titled “Back to the Future: Our Industry in 2030”. Prof. Tim Wentz is an Emeritus Professor of Construction Management at the University of Nebraska—Lincoln, where he is still actively involved in various faculty endeavors, such as the Chancellor’s Sustainability and Resilience Commission. Tim has served the Society in many different capacities. He started his ASHRAE career in 1976 after graduating from the University of Nebraska and worked in a grassroots capacity for many years. Tim has also been very active in the Mechanical Contractors Association of America (MCAA), where he has served as a trustee for the Mechanical Contractors Education and Research Fund (MCERF) and is currently a member of the National Education Initiative (NEI) faculty, and also of the Institute for Project Management (IPM) faculty.

Keynote Speaker 2: Dr. Muhammad Wakil Shahzad delivered the talk titled “An advance water treatment system operated with solar energy”. Dr. Muhammad Wakil Shahzad is an Associate Professor and Head of Subject in the Mechanical and Construction Engineering Department at Northumbria University (NU), Newcastle Upon Tyne, United Kingdom. He is an expert in renewable energy storage and its applications for water treatment, hybrid desalination processes, heating/cooling, solar to alternative fuels, and life cycle cost analysis. He has won many international awards for his innovative desalination cycle, including the Global Innovation Award 2020, and is listed among the top 2% researchers in energy 2021/2022.

Keynote Speaker 3: Dr. Senol Piskin delivered the talk titled “Current trends in Biomedical Engineering”. Dr. Senol Piskin is currently serving at Istinye University, Istanbul, Turkey, and he is holder of a Marie Sklodowska-Curie Fellowship. During his Ph.D., he modeled the cardiovascular system in several physical aspects and his thesis has been selected as one of the best Academic Thesis Applied in Industry by the Technology Development Foundation of Turkey (TTGV). He has modeled palliative surgeries in collaboration with cardiovascular surgeons, cardiologists, and radiologists. For this project, he was awarded the grand prize in the “New Ideas, New Businesses” innovation and entrepreneurship competition organized by the Middle East Technical University, Turkey.

Keynote Speaker 4: Muhammad Saleem Sumbal delivered the talk titled “Digitalization, Knowledge Workers and Future of Work: A post Covid-19 perspective”.

- Dr. Ghulam Asghar;
- Mr. Saif Ullah;
- Mr. Manzar Masud;
- Mr. Syed Hassan Shah;
- Mr. Tauseef Ahmed;
- Ms. Shummaila Rasheed;
- Mr. Mohammad Zulfiqar;
- Mr. Rizwan Siddiqui;
- Mr. Muhammad Haroon;
- Mr. Saad Abdul Raheem;
- Mr. Sarmad Ali;
- Mr. Rizwan Khalil;
- Mr. Muhammad Ahmed;
- Mr. Huzaifa Waseem Malik;
- Mr. Raza Muhammad;
- Mr. Zahoor Ahmed;
- Mr. Qaiser Mehmood;
- Mr. Zafar Iqbal;
- Mr. Zunair Nasir Kayani.
Dr. Muhammad Saleem Sumbal is currently working as Research Assistant Professor at The Hong Kong Polytechnic University, Hong Kong (QS ranking: 65). Previously, he worked at the NUST Business School, National University of Sciences and Technology (NUST), Pakistan, and at the Royal Bank of Scotland, UK. He completed his Ph.D. on prestigious the Hong Kong Fellowship Scheme from The Hong Kong Polytechnic University and MSc in Computer Vision and Robotics on a prestigious Erasmus Mundus Fellowship from Heriot Watt University, UK; University of Girona, Spain; and University of Burgundy, France.

**Conflicts of Interest:** The authors declare no conflict of interest.

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