

OPEN ACCESS

Preface

To cite this article: 2025 *J. Phys.: Conf. Ser.* **2955** 011001

View the [article online](#) for updates and enhancements.

You may also like

- [Magnon-magnon entanglement generation between two remote interaction-free optomagnonic systems via optical Bell-state measurement](#)
S Golkar, E Ghasemian, M Setodeh Kheirabady et al.
- [H-bonding interaction study for binary mixtures of methyl cellosolve and ethanol: a dielectric, FTIR spectroscopic and volumetric approach](#)
V S Pabboj, H N Lakhamawad, G T Jinklor et al.
- [The Disk–Outflow System around the Rare Young O-type Protostar W42-MME](#)
L. K. Dewangan, I. I. Zinchenko, P. M. Zemlyanukha et al.



ECS The Electrochemical Society
Advancing solid state & electrochemical science & technology

247th ECS Meeting
Montréal, Canada
May 18-22, 2025
Palais des Congrès de Montréal

ECS UNITED

Unite with the ECS Community

**Register to
save \$\$
before
May 17**

Preface

In the pursuit of advancing scientific knowledge and technological innovation, the 2024 International Conference on Aerospace, Mechanical and Materials Engineering (AMME 2024) has emerged as a pivotal platform for researchers, engineers, and scholars from across the globe. This event, held to address the latest research findings and technological advancements in aerospace engineering, mechanical design, manufacturing techniques, and the development and application of novel materials, underscores the relentless drive for progress in our contemporary scientific landscape.

AMME 2024 was organized to foster academic exchanges, strengthen industry collaborations, and propel the translation of research achievements into practical applications. It gathered esteemed delegates under one roof to deliberate on a wide array of topics, encompassing aerospace structural optimization, advanced manufacturing techniques, green manufacturing processes, special high-performance materials, intelligent materials and structures in aerospace applications, etc.

The conference proceedings is a testament to the intellectual richness and diversity of the presentations delivered during AMME 2024. The keynote speeches, delivered by renowned experts in their respective fields, set the tone for the entire event. These speeches delved into frontier technologies, market trends, and future challenges, providing invaluable insights that resonated deeply with the attendees. The keynote sessions were not merely informative but also inspiring, igniting a spark of curiosity and enthusiasm among participants.

The oral presentations formed the core of the scientific discourse at AMME 2024. Researchers had the opportunity to present their work in a 15-minute slot, allowing for concise and impactful communication of their findings. These presentations covered a broad spectrum of topics, ranging from the synthesis and characterization of new materials to the design and testing of aerospace structures. The interactive question-and-answer sessions following each presentation fostered a vibrant and engaging atmosphere, encouraging critical thinking and fostering new ideas.

Poster presentations were another vital component of the conference, providing a visual medium for conveying research findings. The posters, displayed throughout the venue, enabled delegates to explore a wide range of topics at their own pace. The poster sessions were particularly valuable for fostering informal discussions and networking opportunities, as attendees could engage in detailed conversations with the poster presenters, leading to the exchange of ideas and potential collaborations.

The conference proceedings compiled herein represents a snapshot of the cutting-edge research presented at AMME 2024. Each paper has undergone rigorous peer review to ensure its quality and relevance, reflecting the high standards set by the conference organizers. The inclusion of these papers in the proceedings not only preserves the knowledge shared during the event but also expands its reach, making it accessible to a wider audience.

The significance of the proceedings lies in its potential to catalyze further research and development in aerospace, mechanical, and materials engineering. By disseminating the latest findings and methodologies, it serves as a valuable resource for researchers, engineers, and educators worldwide. The insights gained from these contributions can inspire novel approaches, drive technological advancements, and ultimately contribute to the betterment of society.

We look forward to the next gathering of experts and scholars at future AMME conferences, where we can continue to explore the latest trends, strengthen research collaborations, and build broader international academic exchange and cooperation networks.

The Committee of AMME 2024



Committee Member

Conference General Chair

Prof. Zheng Hong (George) Zhu, York University, Canada

Publication Chair

Assoc. Prof. Huang Weimin, Nanyang Technological University, Singapore

Prof. Liming Zhou, Jilin University, China

Program Committee Chair

Prof. Devinder Yadav, Batik Air, Malaysia

Technical Program Committee

Prof. Alexander Lukin, Western-Caucasus Research Center, Russia

Prof. Minoru Sasaki, Gifu University, Japan

Prof. Murat Tolga OZKAN, Gazi University, Turkey

Prof. P. K. Dash, Nitte Meenakshi Institute of Technology, India

Prof. Hamid Bahai, Brunel University London, Britain

Prof. Yaolong Liu, Zhejiang University, China

Prof. Kun Xu, Hong Kong University of Science and Technology, China

Prof. Junxi Bi, Inner Mongolia University of Technology, China

Prof. Ruixiang Bai, Dalian University of Technology, China

Prof. Enwei Chen, Hefei University of Technology, China

Prof. Gang Zhang, Harbin Institute of Technology, China

Assoc. Prof. Lixi Yi, Nanchang Hangkong University, China

Assoc. Prof. Anwar Ali, Zhejiang Sci-Tech University, China

Assoc. Prof. SANDIP KUNAR, Aditya Engineering College, India

Assoc. Prof. Muhyiddine Jradi, University of Southern Denmark, Denmark

Assoc. Prof. ANWAR PP ABDUL MAJEED, Sunway University, Malaysia

Assoc. Prof. CHING YERN CHEE, University of Malaya, Malaysia

Assoc. Prof. CHING KUAN YONG, University of Reading Malaysia, Malaysia

Dr. Jhonatan Fernando Eulopa Hernandez, Instituto Politécnico Nacional, México

Dr. Mohd Na'im Abdullah, Universiti Putra Malaysia (UPM), Malaysia