



We cordially invite you to contribute to

### **Track 5 on Advances in Aerospace Technology**

**Track Organizers: Zhangxian Yuan, Worcester Polytechnic Institute; Yi Wang, University of South Carolina**

*Welcome to Track 5 Advances in Aerospace Technology of 2023 ASME International Mechanical Engineering Congress and Exposition (IMECE). Advances in Aerospace Science and Technology is organized by the ASME Aerospace Division Structures and Materials Technical Committee. The Track contains a wide range of topics in the broad area of aerospace engineering, which are individually organized by leading researchers in the corresponding field. The track provides a stage for people from all over the world to exchange their experimental, computational, and analytical studies in variable subareas of aerospace engineering. Contributions in the form of abstracts for oral presentation are sought in the individual Topics. Authors and presenters are invited to participate in this event to expand international cooperation, understanding and promotion of efforts and disciplines in the area of Advances in Aerospace Technology. Dissemination of knowledge by presenting research results, new developments, and novel concepts in Advances in Aerospace Technology will serve as the foundation upon which the conference program of this area will be developed.*

*We look forward to seeing you at IMECE 2023!*

#### **Topics:**

1. General Aerospace
2. Advances in Aerodynamics
3. Novel Aerospace Propulsion Systems
4. Advances in Aerospace Structures and Materials
5. Beam, Plate, and Shell Structures
6. Lightweight Sandwich Composites and Layered Structures
7. Dynamic Behavior of Composites
8. Dynamics and Control of Aerospace Structures
9. Materials and Structures for Extreme Environments
10. Impact, Damage and Fracture of Composite Structures
11. Advances in Mechanics, Multiscale Models and Experimental Techniques for Composites
12. Peridynamics Modeling
13. Computational Aerospace Structural Dynamics and Aeroelasticity
14. Congress-Wide Symposium on NDE & SHM – NDE and Prognostics in Structural Applications
15. Advanced Manufacturing in Aerospace Engineering
16. Applications of Artificial Intelligence/Machine Learning in Aerospace Engineering
17. Multifunctional Composite Materials and Structures

ASME IMECE website to include Important Dates, and Paper Types: <https://event.asme.org/IMECE>

#### **Important Dates:**

- March 06, 2023 – Abstract Submission**
- May 01, 2023 – Submission of Full-Length Paper**
- June 12, 2023 – Paper Acceptance Notification
- June 23, 2023 – Submission of Abstract for Oral Presentations Only**
- July 31, 2023 – Final Paper Submission