ICAM 2023
International Conference on Advanced Manufacturing
October 30 - November 3, 2023
Hyatt Regency on Capitol Hill | Washington D.C.
THE ASTM INTERNATIONAL CONFERENCE ON ADVANCED MANUFACTURING (ASTM ICAM 2023) will be held Oct. 30-Nov. 3, 2023, at the Hyatt Regency-Capitol Hill (Washington, D.C., USA). The conference is hosted by the ASTM International Additive Manufacturing Center of Excellence (AM CoE) and supported by more than a dozen ASTM technical committees.

ICAM 2023 is ASTM’s eighth annual flagship event related to standardization, qualification, and certification with a focus on industry-specific requirements addressing the entire advanced manufacturing process and value chains. The conference will consist of 26 symposia covering major topics and key areas in additive and advanced manufacturing. ICAM is organized by more than 100 scientific committee members, all advanced manufacturing experts from industry, academia, government and regulatory agencies, national labs, and more.

As advanced manufacturing technologies are adopted by various industries, establishing feedstock-process-structure-property-performance relationships becomes essential for qualification and certification of parts in safety critical applications. This conference addresses application specific requirements of various industry sectors in addition to covering the fundamentals of AM process chain. Industry, academia, and government agency professionals in the AM community are invited to address the current and future state of:

- Industry standards
- Design principles
- Qualification and certification
- Innovations in the industry
- Materials and processes
- Data management, sharing, analysis and beyond

Materials of interest include metals, polymers, composites, electronics, ceramics, and other related feedstocks.

Building upon the success of the previous events, and new breadth of topics covered, ICAM 2023 will involve more ASTM committees and external stakeholders, expanding its overall topic from additive manufacturing to advanced manufacturing. ICAM sets the stage to bring experts from around the world to exchange the latest developments in the field of advanced manufacturing with emphasis on the transition of research to application.

Co-Chair
Nima Shamsaei
Auburn University

Co-Chair
Mohsen Seifi
ASTM International

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26 SYMPOSIA
AM Applications for Automotive and Heavy Machinery
AM Applications in Aviation
AM Feedstock: Characterization, Specification, and Reuse
AM for Defense Applications
AM for Space Applications
AM of Non-Metallic Materials *NEW*
Application of AM in Construction on Earth and Beyond
Application of AM in Energy, Maritime, and Oil & Gas
Application of AM in the Medical Industry
Design for AM
Directed Energy Deposition Processes and Applications
Economics and Sustainability of AM
Environmental Effects on AM Alloys and Parts
Fatigue and Fracture of AM Materials and Parts
General Topics in AM
Industry 4.0: Artificial Intelligence and Machine Learning in AM
Industry 4.0: Data Management for AM
Industry 4.0: Robotics and Automation in AM
Industry 4.0: Security Aspects of AM
Mechanical Testing of AM Materials
Microstructural Aspects of AM
Modeling, Simulation, and Digital Twins for Qualification and Certification *NEW*
Non-Destructive Evaluation Methods for AM
Process Control and In-Situ Monitoring Techniques in AM
Sinter-Based AM Technologies
Student Presentation Competition

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The Ohio State University
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National Institute for Aviation Research
National Sun Yat-Sen University, Taiwan

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