



 **ICAM 2023**

# International Conference on Advanced Manufacturing

October 30 - November 3, 2023

Hyatt Regency on Capitol Hill | Washington D.C



ATTENDEE & EXHIBITOR PROSPECTUS



# About

**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*

[www.amcoe.org/icam2023](http://www.amcoe.org/icam2023)

# Overview



PANEL  
DISCUSSIONS



KEYNOTE  
ADDRESSES



STUDENT  
COMPETITION



SHORT  
CERTIFICATE  
COURSES



EXHIBIT



AWARDS  
CEREMONY

## 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

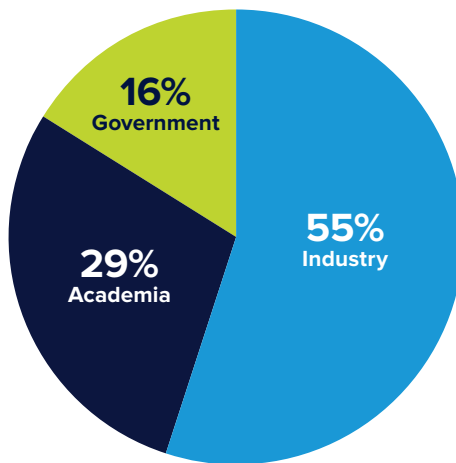
Sinter-Based AM Technologies

Student Presentation Competition

# About ICAM 2022

## TOP PARTICIPATING ORGANIZATIONS

NIST  
U.S. Army  
Boeing  
Siemens Energy  
NASA  
Oak Ridge National Laboratory  
Lockheed Martin  
Northrop Grumman  
U.S. Navy  
The MTC  
Raytheon Technologies  
DMG MORI  
GE  
Sandia National Laboratories  
Sintavia



**850+**  
PARTICIPANTS

## TOP PARTICIPATING ACADEMIC INSTITUTIONS

Auburn University  
Georgia Institute of Technology  
Arizona State University  
Pennsylvania State University  
Bundesanstalt für Materialforschung und -prüfung (BAM)  
NTU Singapore  
Swansea University  
The Ohio State University  
Colorado School of Mines  
National Institute for Aviation Research  
National Sun Yat-Sen University, Taiwan

## RESEARCH TO APPLICATION THROUGH STANDARDIZATION



**475+** presentations  
**27** symposia  
**9** live panel discussions  
**4** keynote addresses + panel  
**4** short certificate courses

**35+**  
COUNTRIES

### TOP 8 REPRESENTED

- 1 United States
- 2 Germany
- 3 United Kingdom
- 4 Canada
- 5 France
- 6 Singapore
- 7 Italy
- 8 Netherlands



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# Previous exhibitors

## SPONSORING ORGANIZATIONS

3YOURMIND  
Advanced Optical Technologies  
AlphaSTAR  
DMG MORI Federal Services  
Element Materials Technology  
Empirical Technologies, part of ATS  
Exum Instruments  
Gasbarre Thermal Processing Systems  
Hexagon  
Lincoln Electric Additive Solutions  
nScript Inc.  
NADCAP, administered by PRI  
REM Surface Engineering  
Sandvik AM  
Siemens  
Siemens Energy  
Sigma Additive Solutions  
Trumpf  
Verder Scientific  
Xact Metal

## SUPPORTING ORGANIZATIONS

Formnext  
Metrix, an ASME Company  
SME  
TCT Group  
Women in 3D Printing

## SUPPORTING GOVERNMENT ORGANIZATIONS

FAA  
NASA  
NIST  
U.S. Department of Defense  
U.S. FDA

