ICAM 2025 TENTATIVE PROGRAM AGENDA

Updated as of 07th August 2025

ICAM25

PROGRAM OVERVIEW & TIMETABLE

Click on any symposium / keynote / panel title to jump directly to the list of presentations.

	MONDAY 06 OCTOBER 2025	TUESDAY 07OCTOBER 2025	WEDNESDAY 08 OCTOBER 2025	THURSDAY 09 OCTOBER 2025	FRIDAY 10 OCTOBER 2025
AM	▸ **ADVANCED TOPICS** IN AM: QUALIFICATION, NEW MATERIALS, AND POST-PROCESSING ▸ IN-SITU **MONITORING** AND IN-PROCESS CONTROL ▸ **DEFENSE** ▸ **AVIATION** ▸ **FEEDSTOCK** CHARACTERIZATION, SPECIFICATION, AND REUSE ▸ **MODELING**, SIMULATION, AND DIGITAL TWINS ▸ **NON-DESTRUCTIVE** EVALUATION AND INSPECTION ▸ **ENERGY**, MARITIME, OIL AND GAS ▸ **MICROSTRUCTURAL** AND **MECHANICAL** BEHAVIOR ▸ **ROBOTICS** AND **AUTOMATION** ▸ **ENVIRONMENTAL** AND CORROSION ▸ GROUND **TRANSPORTATION** AND HEAVY MACHINERY ▸ **STUDENT ORAL PRESENTATION COMPETITION** FINAL EVALUATION ▸ **KEYNOTE 01** – TBA	▸ **ADVANCED TOPICS** IN AM: QUALIFICATION, NEW MATERIALS, AND POST-PROCESSING ▸ IN-SITU **MONITORING** AND IN-PROCESS CONTROL ▸ **DEFENSE** ▸ **AVIATION** ▸ **FEEDSTOCK** CHARACTERIZATION, SPECIFICATION, AND REUSE ▸ **MODELING**, SIMULATION, AND DIGITAL TWINS ▸ **NON-DESTRUCTIVE** EVALUATION AND INSPECTION ▸ **ENERGY**, MARITIME, OIL AND GAS ▸ **MICROSTRUCTURAL** AND **MECHANICAL** BEHAVIOR ▸ **SECURITY** ASPECTS ▸ **DESIGN** ▸ **CERAMICS** AND **ELECTRONICS** ▸ **STUDENT ORAL PRESENTATION SESSIONS** (NON-COMPETING) ▸ **KEYNOTE 02** – TBA	▸ **ADVANCED TOPICS** IN AM: QUALIFICATION, NEW MATERIALS, AND POST-PROCESSING ▸ **AVIATION** ▸ **FATIGUE** AND FRACTURE ▸ **SPACE** ▸ **SINTER-BASED** TECHNOLOGIES ▸ **CONSTRUCTION** ON EARTH AND BEYOND ▸ **DIRECTED ENERGY DEPOSITION** ▸ **MEDICAL** ▸ **MODELING**, SIMULATION, AND DIGITAL TWINS ▸ **ARTIFICIAL INTELLIGENCE**, **MACHINE LEARNING**, AND **BIG DATA** ANALYTICS ▸ **DESIGN** ▸ **POLYMERS** ▸ **STUDENT ORAL PRESENTATION SESSIONS** (NON-COMPETING) ▸ **KEYNOTE 03** – TBA	▸ **ADVANCED TOPICS** IN AM: QUALIFICATION, NEW MATERIALS, AND POST-PROCESSING ▸ IN-SITU **MONITORING** AND IN-PROCESS CONTROL ▸ **FATIGUE** AND FRACTURE ▸ **SPACE** ▸ **SINTER-BASED** TECHNOLOGIES ▸ **CONSTRUCTION** ON EARTH AND BEYOND ▸ **DIRECTED ENERGY DEPOSITION** ▸ **MEDICAL** ▸ **MICROSTRUCTURAL** AND **MECHANICAL** BEHAVIOR ▸ **ARTIFICIAL INTELLIGENCE**, **MACHINE LEARNING**, AND **BIG DATA** ANALYTICS ▸ **SUSTAINABILITY** AND **ECONOMICS** ▸ **POLYMERS** ▸ **STUDENT ORAL PRESENTATION SESSIONS** (NON-COMPETING) ▸ **KEYNOTE 04** – TBA	▸ **ADVANCED TOPICS** IN AM: QUALIFICATION, NEW MATERIALS, AND POST-PROCESSING ▸ IN-SITU **MONITORING** AND IN-PROCESS CONTROL ▸ **FATIGUE** AND FRACTURE ▸ **SPACE** ▸ **SINTER-BASED** TECHNOLOGIES ▸ **CONSTRUCTION** ON EARTH AND BEYOND ▸ **DIRECTED ENERGY DEPOSITION** ▸ **MEDICAL** ▸ **MICROSTRUCTURAL** AND **MECHANICAL** BEHAVIOR ▸ **ARTIFICIAL INTELLIGENCE**, **MACHINE LEARNING**, AND **BIG DATA** ANALYTICS ▸ **SUSTAINABILITY** AND **ECONOMICS** ▸ **POLYMERS** ▸ **STUDENT ORAL PRESENTATION SESSIONS** (NON-COMPETING) ▸ **KEYNOTE 05** – TBA
PM	▸ **ADVANCED TOPICS** IN AM: QUALIFICATION, NEW MATERIALS, AND POST-PROCESSING ▸ IN-SITU **MONITORING** AND IN-PROCESS CONTROL ▸ **DEFENSE** ▸ **AVIATION** ▸ **FEEDSTOCK** CHARACTERIZATION, SPECIFICATION, AND REUSE ▸ **MODELING**, SIMULATION, AND DIGITAL TWINS ▸ **NON-DESTRUCTIVE** EVALUATION AND INSPECTION ▸ **ENERGY**, MARITIME, OIL AND GAS ▸ **MICROSTRUCTURAL** AND **MECHANICAL** BEHAVIOR ▸ **ROBOTICS** AND **AUTOMATION** ▸ **ENVIRONMENTAL** AND CORROSION ▸ GROUND **TRANSPORTATION** AND HEAVY MACHINERY ▸ **STUDENT ORAL PRESENTATION COMPETITION** FINAL EVALUATION ▸ **STUDENT POSTER** COMPETITION ▸ **PANEL 01** – TBA	▸ **ADVANCED TOPICS** IN AM: QUALIFICATION, NEW MATERIALS, AND POST-PROCESSING ▸ **DIRECTED ENERGY DEPOSITION** ▸ **DEFENSE** ▸ **AVIATION** ▸ **FEEDSTOCK** CHARACTERIZATION, SPECIFICATION, AND REUSE ▸ **MODELING**, SIMULATION, AND DIGITAL TWINS ▸ **NON-DESTRUCTIVE** EVALUATION AND INSPECTION ▸ **ENERGY**, MARITIME, OIL AND GAS ▸ **MEDICAL** ▸ **SECURITY** ASPECTS ▸ **DESIGN** ▸ **CERAMICS** AND **ELECTRONICS** ▸ **STUDENT ORAL PRESENTATION SESSIONS** (NON-COMPETING) ▸ **PANEL 02** – TBA	▸ **ADVANCED TOPICS** IN AM: QUALIFICATION, NEW MATERIALS, AND POST-PROCESSING ▸ IN-SITU **MONITORING** AND IN-PROCESS CONTROL ▸ **FATIGUE** AND FRACTURE ▸ **SPACE** ▸ **SINTER-BASED** TECHNOLOGIES ▸ **CONSTRUCTION** ON EARTH AND BEYOND ▸ **DIRECTED ENERGY DEPOSITION** ▸ **MEDICAL** ▸ **MICROSTRUCTURAL** AND **MECHANICAL** BEHAVIOR ▸ **ARTIFICIAL INTELLIGENCE**, **MACHINE LEARNING**, AND **BIG DATA** ANALYTICS ▸ **FEEDSTOCK** CHARACTERIZATION, SPECIFICATION, AND REUSE ▸ **POLYMERS** ▸ **STUDENT ORAL PRESENTATION SESSIONS** (NON-COMPETING) ▸ **PANEL 03** – TBA	▸ **ADVANCED TOPICS** IN AM: QUALIFICATION, NEW MATERIALS, AND POST-PROCESSING ▸ IN-SITU **MONITORING** AND IN-PROCESS CONTROL ▸ **FATIGUE** AND FRACTURE ▸ **SPACE** ▸ **SINTER-BASED** TECHNOLOGIES ▸ **CONSTRUCTION** ON EARTH AND BEYOND ▸ **DIRECTED ENERGY DEPOSITION** ▸ **MEDICAL** ▸ **MICROSTRUCTURAL** AND **MECHANICAL** BEHAVIOR ▸ **ARTIFICIAL INTELLIGENCE**, **MACHINE LEARNING**, AND **BIG DATA** ANALYTICS ▸ **SUSTAINABILITY** AND **ECONOMICS** ▸ **POLYMERS** ▸ **STUDENT ORAL PRESENTATION SESSIONS** (NON-COMPETING) ▸ **PANEL 04** – TBA	▸ NO PROGRAM

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ICAM 2025 TENTIVE PROGRAM AGENDA

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STUDENT ORAL PRESENTATION COMPETITION ROUND 01 EVALUATION

VIRTUAL

SESSION CHAIR (AM + PM SESSIONS):
N/A

VIRTUAL STUDENT ORAL ROUND 01
Predicting Cross-Sectional Geometry in Large Format Additive Manufacturing using Artificial Neural Networks
Daniele Vanerio[1, 2]; [1]Caracol; [2]Politecnico di Milano

VIRTUAL STUDENT ORAL ROUND 01
Laser Powder Bed Fusion of Functionally Graded Nickel-Titanium Shape Memory Alloys
Taresh Guleria[1]; [1]Texas A&M University

VIRTUAL STUDENT ORAL ROUND 01
Set-On-Demand in Digital Construction via Active In-Situ Carbon Sequestration
Sean Gip Lim[1]; [1]Nanyang Technological University

VIRTUAL STUDENT ORAL ROUND 01
Thermographic Analysis of Plastic Strain for Monitoring Fatigue Life via Inverse Heat Transfer Technique
Mohammad Ali Amooie[1]; [1]Louisiana State University

VIRTUAL STUDENT ORAL ROUND 01
Advanced Characterization Methods for Fatigue Damage Evolution in Ti6Al4V Lattice Structures for Medical Applications
Sebastian Stammkötter[1]; [1]TU Dortmund University

VIRTUAL STUDENT ORAL ROUND 01
Background Oriented Schlieren Imaging of the Metal Vapour Plume in Laser Powder Bed Fusion and the Plume's Effect on Laser Focus and Power
Jamie Bell[1]; [1]Imperial College London

VIRTUAL STUDENT ORAL ROUND 01
Addressing Adoption Barriers for Additive Manufacturing through Governance: An Inter-Organizational Perspective
Vincent Czyrnik[1]; [1]Martin Luther University Halle-Wittenberg

VIRTUAL STUDENT ORAL ROUND 01
A Phase Field-Crystal Plasticity Framework for Dislocation-Driven Residual Stress Evolution in LPBF of a Nickel-Based Superalloy
Mostafa Salem[1]; [1]University of Sheffield

VIRTUAL STUDENT ORAL ROUND 01
Process-Structure-Property Relationship Study of Creep in Additively Manufactured 316L SS by Laser Powder Bed Fusion
Raushan Singh[1]; [1]Utah State University

VIRTUAL STUDENT ORAL ROUND 01
Optimisation and Clinical Functionalisation of In Situ Alloyed and LPBFed Ti6Al4V-Cu Biomaterial
Nthabiseng Nhlapo[1]; [1]Central University of Technology, Free State

VIRTUAL STUDENT ORAL ROUND 01
Improving the Gas Flow Distribution in the Build Chamber through Modifications in Ducting and Nozzle Design
Aaron Abeyta[1]; [1]University of Washington

VIRTUAL STUDENT ORAL ROUND 01
Optimizing Building Envelopes through Additive Manufacturing: A Computational Approach to Structural Efficiency and Fabrication
Ali Alhussain[1]; José Pinto Duarte[1]; [1]Pennsylvania State University

VIRTUAL STUDENT ORAL ROUND 01
Plasma Electrolytic Oxidation Coating of Additively Manufactured Ti-6Al-4V for Dental Implants
Aboli Chandrashekhar Lakhe[1, 2]; [1]University of Manchester; [2]A*STAR

VIRTUAL STUDENT ORAL ROUND 01
Comprehensive Microstructural Analysis via Directional Reflectance Microscopy (DRM) when Strain Evaluation with Digital Image Correlation (DIC)
Senorita Sarker[1]; [1]Utah State University

VIRTUAL STUDENT ORAL ROUND 01
Anti-Buckling Device for a Novel High Throughput Assembly to Characterize Fully-Reversed Fatigue Life
Mehedi Hasan Mahfuz[1]; [1]Utah State University

VIRTUAL STUDENT ORAL ROUND 01
Flow and Printability Analysis of Geopolymer Concrete Mix Designs for Additive Manufacturing
Shawn Khokher[1]; [1]University of Kansas

VIRTUAL STUDENT ORAL ROUND 01
Optimal Pixel Selection Algorithms for Memory Efficient In-Process Monitoring of Additive Manufacturing using Event Based Neuromorphic Imagers
Mahtab Heydari[1]; [1]Texas A&M University

VIRTUAL STUDENT ORAL ROUND 01
Effects of Laser Type and Powder Reuse on Anisotropic Tensile and Fatigue Behaviors of LP-DED A6061-RAM2 Aluminum Alloy
Md Faysal Khan[1]; [1]Auburn University

VIRTUAL STUDENT ORAL ROUND 01
Powder Gas Jet Stream Characterisation in Laser Directed Energy Deposition
João Pedro Madeira Araujo[1]; [1]Brunel University London

VIRTUAL STUDENT ORAL ROUND 01
Improving Digital Image Correlation (DIC) Techniques for Extreme Environments
Prasenjit Dewanjee[1]; [1]Utah State University

VIRTUAL STUDENT ORAL ROUND 01
High-Throughput In-Situ Ultrasonic Monitoring of Melt Pool Dynamics and Phase Transformations in Laser Additive Manufacturing
Nathan Kizer[1]; [1]Pennsylvania State University

VIRTUAL STUDENT ORAL ROUND 01
Development of a Functional Gradient Material using a Wire Arc Additive Manufacturing Process
Lucas Weber[1, 2, 3]; [1]Clément Ader Institute; [2]ISAE-SUPAERO; [3]SEGULA Technologies

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VIRTUAL STUDENT ORAL ROUND 01

A Multi-Scale Simulation Framework for Tensile Testing of Cellular Porous Materials
Ivan Senegaglia[1]; [1]University of Pisa

VIRTUAL STUDENT ORAL ROUND 01

Development of Silicon Carbide Components for Nuclear Applications using Additive Manufacturing
Zeyad Mohamed[1]; Monica Guimaraes[1]; [1]University of Alberta

VIRTUAL STUDENT ORAL ROUND 01

Melt Pool Behavior in Laser Processing: Thermal Analysis using Co-Axial Multispectral Imaging
Ruihang Dai[1]; [1]Technical University of Munich

VIRTUAL STUDENT ORAL ROUND 01

Investigations on Use of Biochar in 3D Concrete Printing
Ji Hye Jhun[1]; [1]Nanyang Technological University

VIRTUAL STUDENT ORAL ROUND 01

On the Suitability of High Dynamic Range Neuromorphic Event Based Imagers for Two Color Pyrometry
Anthony LoRe Starleaf[1, 2]; [1]Los Alamos National Laboratory; [2]Embry-Riddle Aeronautical University

VIRTUAL STUDENT ORAL ROUND 01

Microstructure Prediction in Laser Powder Bed Fusion via Physics-Based Modeling and In-Situ Sensor Data Fusion
Kaustubh Deshmukh[1]; [1]Virginia Tech

VIRTUAL STUDENT ORAL ROUND 01

Characterisation of Transition Welds Manufactured using Laser Powder Bed Fusion (LPBF)
Kelsey Parker[1]; [1]Swansea University

VIRTUAL STUDENT ORAL ROUND 01

Probabilistic Spot-Melting Scan Strategy for Microstructure Engineering in Electron Beam Additive Manufacturing
Salman Mohammad Ismail[1]; [1]Texas A&M University

VIRTUAL STUDENT ORAL ROUND 01

Image-Based and Machine Learning Supported Powder Spreadability Analysis for Laser Powder Bed Fusion Additive Manufacturing Processes
Daniel Amoshie[1]; [1]McGill University

VIRTUAL STUDENT ORAL ROUND 01

Advanced Coating Solutions for Turbine Blades using High-Entropy Alloys via Direct Energy Deposition
Lorenzo Pollicini[1]; [1]University of Applied Sciences and Arts of Southern Switzerland

VIRTUAL STUDENT ORAL ROUND 01

Process-Structure-Property Relationships for Laser Powder Bed Fusion 316L Stainless Steel via Ultrasonic Nondestructive Evaluation
Harshith Kumar Adepu[1]; [1]Purdue University

VIRTUAL STUDENT ORAL ROUND 01

Influence of Direct Energy Deposition Process Condition on Crack Susceptibility of MAR 247 LC
Alessio Ronchetti[1]; [1]University of Applied Sciences and Arts of Southern Switzerland

VIRTUAL STUDENT ORAL ROUND 01

Identification of Process Influences on the Volume Generation of AlSi10Mg by Means of HS-DED
Florian Fischer[1]; [1]RWTH Aachen University - Digital Additive Production

VIRTUAL STUDENT ORAL ROUND 01

Influence of Laser Metal Deposition Build Orientation on the Final Mechanical Properties of Large Ti-6Al-4V Components
Luca Marsilio[1]; [1]University of Applied Sciences and Arts of Southern Switzerland

VIRTUAL STUDENT ORAL ROUND 01

Advancing the Understanding of Fatigue in Additively Manufactured TPMS Metallic Metamaterials: Experiments and Modeling
Krista Dyer[1]; [1]Auburn University

VIRTUAL STUDENT ORAL ROUND 01

Carbon Footprint of Wire Arc Additively Manufactured Optimized Steel Tubular Elements
Lidiana Arrè[1]; [1]University of Bologna

VIRTUAL STUDENT ORAL ROUND 01

Graph Theoretic Microstructure Informatics for Metal Additive Manufacturing
Mihir Darji[1]; [1]Virginia Tech

VIRTUAL STUDENT ORAL ROUND 01

Quantification of the Effect of Varying Cooling Conditions on Additively Manufactured PLA via Ultrasonic Nondestructive Evaluation
Partha Pratim Pandit[1]; [1]Purdue University

VIRTUAL STUDENT ORAL ROUND 01

Impacts of Defects in Additively Manufactured Lattices: A Big Data Approach
Brandon Hill[1]; [1]University of Maryland

VIRTUAL STUDENT ORAL ROUND 01

Assessing the Effects of Particle Settling on Ceramic Vat Photopolymerization
Pandora Picariello[1]; [1]Colorado School of Mines

VIRTUAL STUDENT ORAL ROUND 01

AI Unveils Plasma Dynamics in Next-Gen Ceramic Manufacturing using Microwaves
Bashu Aman[1]; [1]Carnegie Mellon University

VIRTUAL STUDENT ORAL ROUND 01

Characterization and Prediction of Part-Scale Tensile Properties of Additively Manufactured Ti-6Al-4V using Physics-Informed Machine Learning
Emmanuel De Leon[1]; [1]University of Oklahoma

VIRTUAL STUDENT ORAL ROUND 01

Towards Standardising DEM Calibration for Reliable Industrial Process Simulation
Ben Jenkins[1, 2]; [1]Granutools; [2]University of Birmingham

VIRTUAL STUDENT ORAL ROUND 01

Revealing 3D Melt Pools by Fusing In-Situ Imaging and Simulations During the Additive Manufacturing Process: A Practical Data-Driven Approach Towards Digital Twins
Yiming Liu[1]; [1]National University of Singapore

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VIRTUAL STUDENT ORAL ROUND 01

Crystal-Symmetry-Driven Build Orientation in Laser Powder Bed Fusion

Daniel Rainer[1]; [1]Uppsala University

VIRTUAL STUDENT ORAL ROUND 01

Strength Starts at the Source: Unlocking Performance through Hotend Engineering

Brent Griffith[1, 2]; [1]Labconco; [2]Pennsylvania State University

VIRTUAL STUDENT ORAL ROUND 01

In-Situ Prediction of Flaw Formation and Microstructure in Laser Powder Bed Fusion using Physics and Data-Driven Machine Learning

Antonio Carrington Jr.[1]; [1]Virginia Tech

VIRTUAL STUDENT ORAL ROUND 01

Cryogenic and Elevated Temperature Tensile and Fatigue Behavior of Monel K500 Alloy Fabricated via L-PBF and LP-DED

Indrajit Nandi[1]; [1]Auburn University - National Center for Additive Manufacturing Excellence

VIRTUAL STUDENT ORAL ROUND 01

Temperature-Dependent Tensile and Fatigue Behaviors of Alloy 718: A Comparison Among Multiple Additive Manufacturing Processes

Alireza Bidar[1]; [1]Auburn University

VIRTUAL STUDENT ORAL ROUND 01

Fatigue Crack Growth Behavior of L-PBF In718: Effects of Processing and Post-Processing Conditions

Mikyle Paul[1]; [1]Auburn University

VIRTUAL STUDENT ORAL ROUND 01

3D Printing Concrete Infrastructure with Large Aggregates Around Rebar

Masoud Forsat[1]; [1]Oklahoma State University

VIRTUAL STUDENT ORAL ROUND 01

Development of a Multimaterials Dispenser Prototype for Binder Jet 3D Printing: A Senior Design Project Perspective

Bryce Reid[1]; Noah Holt[1]; [1]University of Central Oklahoma

VIRTUAL STUDENT ORAL ROUND 01

Addressing Data Scarcity and Reproducible Data Science through Data Management in Laser Powder Bed Fusion

Jigar Patel[1]; [1]University of Waterloo

VIRTUAL STUDENT ORAL ROUND 01

Cost-Effective Binder Jet Printing of Irregular Cu-30Ni Powder via Tailored Processing for Improved Densification and Microstructure

Debasis Rath[1]; [1]University of Pittsburgh

VIRTUAL STUDENT ORAL ROUND 01

Replication-Based Manufacturing of Micro-Mechanical Metamaterials

Hava Musa Bilyalova[1]; [1]Delft University of Technology

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STUDENT ORAL PRESENTATION SESSIONS NON-COMPETING

07TH OCT 2025 (TUE) – 10TH OCT 2025 (FRI)

TBA

< VENUE: TBA >

SESSION CHAIR (AM + PM SESSIONS):
TBA

TBA STUDENT ORAL NON-COMPETING
Micro-Tensile Testing of Additively Manufactured Metallic Parts
Prudhvi Raj Pola[1]; [1]Oklahoma State University

TBA STUDENT ORAL NON-COMPETING
Multi-Fidelity Framework to Predict the Melt Pool Characteristics for Laser Powder Bed Fusion of Inconel 718
Abdul Khalad[1, 2]; [1]Deakin University; [2]Indian Institute of Technology Hyderabad

TBA STUDENT ORAL NON-COMPETING
Quality Upgrading in the Argentine Manufacturing Sector: A Driver of Trade-Induced Wage Inequality?
Tarah Lynn Ramthun[1]; [1]University of Göttingen

TBA STUDENT ORAL NON-COMPETING
Development of 3D Printable Magneisum Oxysulfate Concrete with Biochar: Towards to CO2 Sequstration and Climate-Resilient Construction
Hanbin Cheng[1]; [1]Pennsylvania State University

TBA STUDENT ORAL NON-COMPETING
Machine Learning Predicts Additively Manufactured Part Dimensions: Training Strategies for Patient-Specific Medical Devices
Ziteng (Jack) Wen[1]; [1]University of Maryland

TBA STUDENT ORAL NON-COMPETING
Ion Beam-Induced Modification in the Microstructural and Mechanical Properties of 15-5PH Steel Fabricated by Selective Laser Melting
Pritam Patra[1]; [1]Indian Institute of Technology Delhi

TBA STUDENT ORAL NON-COMPETING
Towards AM 2.0: Standardizing Information Models for Resilient Digital Manufacturing Ecosystem
Osama Desouky[1]; [1]Texas A&M University at Qatar

TBA STUDENT ORAL NON-COMPETING
Design and Analysis of Active Cooling Brake Disc in Lattice Structure for Additive Manufacturing
Abdulcelil Bayar[1]; [1]Turkish Aerospace

TBA STUDENT ORAL NON-COMPETING
Toward Large Scale ODS Alloy Manufacturing: Comparison of Multiple Feedstocks in Laser Directed Energy Deposition Integrated with Multi-Scale, Multi-Physics Modeling of Oxide Precipitation
Seongun Yang[1]; [1]Oregon State University

TBA STUDENT ORAL NON-COMPETING
Small Crack Growth Behavior of Additively Manufactured Materials under Multiaxial Stress States: Experimental and Probabilistic Investigation
Mohammad Khaboushani[1]; [1]Auburn University - National Center for Additive Manufacturing Excellence

TBA STUDENT ORAL NON-COMPETING
A Novel Cyber Infrastructure Enabling AI-Driven Analytics and Digital Twins for Real-Time 3D Printing Monitoring
Ahmed Ben Sidhom[1]; [1]Rowan University

TBA STUDENT ORAL NON-COMPETING
Constraint-Aware and Safe Reinforcement Learning for Industrial Robotics in High-Risk Environments through Enforcing Strict Safety Constraints
Mahdi Bonyani[1]; [1]Louisiana State University

TBA STUDENT ORAL NON-COMPETING
Enhancing Safety in Manufacturing through Digital Twin-Based Reasoning and Simulated Dataset
Maryam Soleymani[1]; [1]Louisiana State University

TBA STUDENT ORAL NON-COMPETING
Influence of Surface Modification on the Mechanical Performance of Additively Repaired Ti-6Al-4V Alloy using Wire-Based Direct Energy Deposition Method
Lukas Seggi[1]; [1]University of Akron

TBA STUDENT ORAL NON-COMPETING
Control of Weld Pool Height and Temperature under Uncertain Heat Source Efficiency in Robotic Welding
Ahmed Khalil[1]; [1]Texas A&M University

TBA STUDENT ORAL NON-COMPETING
Mechanical Response of Bimetallic Inconel 625 and Stainless Steel 316 Fabricated via Laser Powder Bed Fusion
Saneej Samad[1]; [1]Utah State University

TBA STUDENT ORAL NON-COMPETING
Optimizing Induction Brazing Parameters for High-Integrity Copper Pipe Joints in Heat Pump Manufacturing using an Automated Filler Feeding System
Eyuel Abate Lemma[1]; [1]University of Aveiro

TBA STUDENT ORAL NON-COMPETING
Oxidation Behavior of Spark Plasma Sintered Tungsten Alloys for High Temperature Metal Alkali Heat Pipes
Abhilash Prasad[1]; [1]University of Central Florida

TBA STUDENT ORAL NON-COMPETING
Unified Model for Multiphysics and Multiphase Phenomena in Plasma Arc Directed Energy Deposition Process
Gaurab Neupane[1]; [1]Northeastern University

TBA STUDENT ORAL NON-COMPETING
Structural Sensing in Metal: Exploring the Effects of Embedding Sensors on the Mechanical Performance of Parts Made via Additive Friction Stir Deposition
Henry Claesson[1]; [1]Virginia Tech

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TBA STUDENT ORAL NON-COMPETING
Biochar-Based Polymer Filaments for Sustainable Manufacturing and Circular Economy
Diana Rose Rivera[1]; [1]De La Salle University

TBA STUDENT ORAL NON-COMPETING
Improving the Manufacturability of Additively Manufactured Polysalt-Derived PMDA/DDS Polyimide Parts via the Incorporation of Dicarboxylate-Dimethyl Esters
John Will[1]; [1]Virginia Tech

TBA STUDENT ORAL NON-COMPETING
Toughness through Nature: 3D-Printed Sponge-Inspired Cylinders for Next-Gen Biomedical Devices
Armaghan Hashemi Monfared[1]; [1]Pennsylvania State University

TBA STUDENT ORAL NON-COMPETING
Estimation of Bead Height in Wire Arc Additive Manufacturing on Curved Surfaces using Geometric Modeling
MIhir Patel[1]; [1]Ganpat University

TBA STUDENT ORAL NON-COMPETING
SiC Reinforced Al-5052: A Molecular Dynamics Dive into Microstructure & Performance Gains via FSP
Shazman Nabi[1]; [1]National Institute of Technology Srinagar

TBA STUDENT ORAL NON-COMPETING
Tribological Properties of Titanium-Aluminium Doped WS2 Coatings on Steel for Extreme Environmental Applications
Satyam Upadhyay[1]; [1]Birla Institute of Technology Mesra

TBA STUDENT ORAL NON-COMPETING
Hybridization of Commercial Directed Energy Deposition System for In-Situ Repair of Parts
Juan Pablo Garcia Chavira[1]; [1]University of Texas at El Paso - W.M. Keck Center for 3D Innovation

TBA STUDENT ORAL NON-COMPETING
Residual Stress Modeling in Laser Powder Bed Fusion of Transversely Isotropic Metals: Analytical and FEM Approaches
Farshad Samadpour[1]; [1]Purdue University

TBA STUDENT ORAL NON-COMPETING
Effects of Different Scanning Strategies on Grain Morphology of Bulk Inconel 718 Parts Fabricated by EB-PBF
Shadman Tahsin Nabil[1]; [1]University of Texas at El Paso - W.M. Keck Center for 3D Innovation

TBA STUDENT ORAL NON-COMPETING
Development and Evaluation of Geomaterial for 3D Printing in Construction
Akash Tanshette[1]; Zoheb Faisal[1]; [1]Texas A&M University

TBA STUDENT ORAL NON-COMPETING
Additive Manufacturing of Polycarbonate Shields for Women's Lacrosse Goggles: A Mechanical Performance Assessment
Jennifer Ray[1]; [1]Wentworth Institute of Technology

TBA STUDENT ORAL NON-COMPETING
Microstructure Evolution, the Influence on Material Properties, and the Optimized Processing Parameters Search in Additive Manufacturing
Wei Huang[1]; [1]Georgia Institute of Technology

TBA STUDENT ORAL NON-COMPETING
Investigating the Effect of Dishwashing on 3D Printed Food Contact Material
Geremew Kailo[1]; [1]Hungarian University of Agriculture and Life Sciences

TBA STUDENT ORAL NON-COMPETING
Comparative Study of Traditional Coating vs. Nanocoating in Corrosion Resistance
Lakshya Jaiswal[1]; [1]Central University of Jharkhand

TBA STUDENT ORAL NON-COMPETING
Real-Time Algorithmic Fault Detection in FDM Printing using Stepper Motor Current
Alexander Isiani[1]; [1]Louisiana Tech University

TBA STUDENT ORAL NON-COMPETING
Impact of Particle Size on Spreadability and Print Quality in Laser Powder Bed Fusion of Ti6Al4V
Seyed Masoud Ashrafizadeh[1]; [1]McGill University

TBA STUDENT ORAL NON-COMPETING
Driving LPBF Scalability via AI Predictive Process Control: A Case Study
Chukwuemeka Okolo[1]; [1]Brandenburg University of Technology Cottbus-Senftenberg

TBA STUDENT ORAL NON-COMPETING
Thermal History and Mechanical Performance of Polymer-Polymer Interfaces in Fused Filament Fabrication: A Case Study on Nylon 6
Julian Klingenbeck[1]; [1]University of the Bundeswehr Munich

TBA STUDENT ORAL NON-COMPETING
Understanding the Effects of Thermal Accumulation on Melt Pool Behaviour in Laser Powder Bed Fusion
Hugh Hallas[1]; [1]Imperial College London

TBA STUDENT ORAL NON-COMPETING
Adaptive Stiffness and Damage Mechanisms in TPMS Lattice Structures: From Fundamental Understanding to Implant Design
Sebastian Stammkötter[1]; [1]TU Dortmund University

TBA STUDENT ORAL NON-COMPETING
Exploring the Interplay of Porosity and Mechanical Integrity in High Porosity Metallic Lattice Structures Fabricated by Powder Bed Fusion
Daniyal Sayadi[1]; [1]University of North Carolina at Charlotte

TBA STUDENT ORAL NON-COMPETING
Enhancing the UAV Wing Leading Edge Crashworthiness Against Bird Strike Events: An Innovative Additive Manufacturing Solution
Muhammad Arslan Muneer[1]; [1]University of Campania "Luigi Vanvitelli"

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ICAM 2025 TENTIVE PROGRAM AGENDA

Updated as of 07th August 2025

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TBA
STUDENT
ORAL NON-COMPETING

A Look at Vibrofinishing for Fatigue Specimen Preparation
Rodolfo (Rudy) Villa[1]; [1]University of Oklahoma

TBA
STUDENT
ORAL NON-COMPETING

Microstructural and Fatigue Characterization of Stitched Zones in Ti6Al4V Printed via Multi-Laser Powder Bed Fusion
Rodolfo (Rudy) Villa[1]; [1]University of Oklahoma

TBA
STUDENT
ORAL NON-COMPETING

Comprehensive Powder Bed Feedstock Sampling and Characterization Approach for Laser Powder Bed Fusion
Nicolas Pielczyk[1]; [1]Georgia Institute of Technology - Aerospace Systems Design Laboratory

TBA
STUDENT
ORAL NON-COMPETING

Size Effect in Direct Energy Deposition of Colmonoy 227-F Thin Structure: Investigating Process Parameters, Microstructure and Mechanical Response
Gabriele Grima[1]; [1]Marche Polytechnic University

TBA
STUDENT
ORAL NON-COMPETING

Temperature-Dependent Tensile and Fatigue Behaviors of A6061-RAM2 Aluminum Alloy: The Effect of Additive Manufacturing Technology
Md Faysal Khan[1]; [1]Auburn University

TBA
STUDENT
ORAL NON-COMPETING

Tribocorrosion Study of D2 Tool Steel Fabricated by Extrusion-Based Sintering-Assisted Additive Manufacturing
Pritam Patra[1]; [1]Indian Institute of Technology Delhi

TBA
STUDENT
ORAL NON-COMPETING

A Novel 3D Printing Scheme for Lunar Construction with Extremely Low Binder Utilization
Zifan Geng[1]; [1]Nanyang Technological University

TBA
STUDENT
ORAL NON-COMPETING

Hybrid Feedforward-Feedback Process Control of Thermal History in Laser Powder Bed Fusion (LPBF) of Inconel 718 through Physics-Based Modeling and Real-Time In-Situ Sensor Data
Kaustubh Deshmukh[1]; [1]Virginia Tech

TBA
STUDENT
ORAL NON-COMPETING

Part-Scale PBF-LB/M Simulation without Calibration: Advanced Material Modeling for First-Time-Right Manufacturing
Stefan Brenner[1]; [1]University of the Bundeswehr Munich

TBA
STUDENT
ORAL NON-COMPETING

Real-Time Dynamic Force Prediction in Machining using Tooltip Acceleration and Interpretable Operator Learning
Chin-Cheng (Jim) Shih[1]; [1]Texas A&M University

TBA
STUDENT
ORAL NON-COMPETING

Strategies for Reducing the Impact of Process Interruptions in Laser-Based Powder Bed Fusion (PBF-LB/M)
Martin Moser[1]; [1]University of the Bundeswehr Munich

TBA
STUDENT
ORAL NON-COMPETING

Comparing Corrosion Fatigue Behavior and Stress Corrosion Cracking of Direct Energy Deposition and Laser Powder Bed Fusion Print Strategies for Additively Manufactured 17-4PH Stainless Steel
Cody Urso[1]; [1]University of Virginia

TBA
STUDENT
ORAL NON-COMPETING

What Does it Take for the Printed Strength to Reflect the Material Strength in FDM? A Story of ULTEM 9085
Colin Marquis[1]; [1]University of Washington

TBA
STUDENT
ORAL NON-COMPETING

Influence of Process Interruptions on the Mechanical Behavior of LPBF-Fabricated Stainless Steel 316L
Tasrif Ul Anwar[1]; [1]Utah State University

TBA
STUDENT
ORAL NON-COMPETING

Comparing the Microstructure of Inconel-GRCop 42 Dissimilar Joint fabricated by IR LDED versus Blue Laser LDED
Nahal Ghanadi[1]; [1]Oregon State University

TBA
STUDENT
ORAL NON-COMPETING

Supportless Overhangs: An Evaluation of Underlying Physics Elucidated by Process Control Software
Austin Tiley[1]; [1]Ohio State University

TBA
STUDENT
ORAL NON-COMPETING

Comprehensive Investigation of Mechanical Bandgaps in TPMS Lattice Structures
Mohammad Shaaban[1]; [1]Texas A&M University

TBA
STUDENT
ORAL NON-COMPETING

Effects of Build Orientation on Interfacial Formation Mechanisms for Highly Conductive Alloys via Multi-Material Laser Powder Bed Fusion
Jacklyn Griffis[1]; [1]Pennsylvania State University

TBA
STUDENT
ORAL NON-COMPETING

Temperature-Dependent Tensile Behaviors of Inconel 625: A Comparison Among Multiple Additive Manufacturing Processes
Alireza Bidar[1]; [1]Auburn University

TBA
STUDENT
ORAL NON-COMPETING

Polymer Concrete as a Joint Material for Modular Construction and 3D Printed Bridges
Sammelan Pokharel[1]; [1]University of Nevada, Reno

TBA
STUDENT
ORAL NON-COMPETING

Relating Powder Properties to Part Performance in PBF Additive Manufacturing using Modulated Laser Thermal Interrogation (MLTI)
Sina Ghadi[1]; [1]Binghamton University

TBA
STUDENT
ORAL NON-COMPETING

Design of a Fatigue Test Bench for Drill Strings
Kehinde Ogunjobi[1]; [1]Howard University

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TBA
STUDENT
ORAL NON-COMPETING

Digital Twin of the Spreading Process in Metal Additive Manufacturing Based on the Discrete Element Method

Olivier Gaboriault[1]; [1]Polytechnique Montréal

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ICAM 2025 TENTIVE PROGRAM AGENDA

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STUDENT POSTER COMPETITION

06TH OCT 2025 (MON)
TIME: 17:15 TO 18:45 PM

06TH OCTOBER 2025
< VENUE: TBA >

STUDENT POSTER **Localized Mechanical Properties of Additively Manufactured Metallic Parts**
Prudhvi Raj Pola[1]; [1]Oklahoma State University

STUDENT POSTER **Hybrid Manufacturing through Adhesive Bonding of AM Sub-Components**
Michael Ascher[1]; [1]University of the Bundeswehr Munich

STUDENT POSTER **A Comprehensive Review of Hybrid Direct Energy Deposition Processes**
Daniyal Sayadi[1]; [1]University of North Carolina at Charlotte

STUDENT POSTER **Structural Evaluation of Hybrid Double Lap Shear Bolted Connections with Additive Manufactured Inner Plates**
Hasan Almuhanna[1]; [1]University of Sheffield

STUDENT POSTER **Hybrid Numerical and Machine Learning Approach for Residual Stress Prediction in LPBF: Incorporating Geometric Features via the Modified Inherent Strain Method**
Mehran Bagheri[1]; [1]University of North Carolina at Charlotte

STUDENT POSTER **Effects of Printing Defects on the Creep Behaviour of 316L SS Manufactured via Laser Powder Bed Fusion**
Raushan Singh[1]; [1]Utah State University

STUDENT POSTER **Electrospin-Coating of 3D-Printed Ti6Al4V Implants with Bio-Compatible Polymer Nanofibers**
Nthabiseng Nhlapo[1]; [1]Central University of Technology, Free State

STUDENT POSTER **Rheology-Driven Mixture Design of 3D Printable Lightweight Concrete: A Modified Excess Paste Theory Considering the Water Absorption Behavior of Porous Aggregate**
Hanbin Cheng[1]; [1]Pennsylvania State University

STUDENT POSTER **A High-Throughput Approach to Speed Up Low Cycle Tensile-Fatigue Testing of Metals**
Mehedi Hasan Mahfuz[1]; [1]Utah State University

STUDENT POSTER **Joining Inconel 718 and GRCop42: A Framework for Developing Transition Compositions to Avoid Cracking and Brittle Phase Formation**
Tyler Finch[1]; [1]Oregon State University

STUDENT POSTER **Comparing Ultrasonic Gas Atomization (AMEZMET) to Standard Gas Atomized Metal Powders**
Mithrandir Eichner[1]; [1]Oregon State University

STUDENT POSTER **Additive Manufacturing for Roof Structures: Improving Geometric Accuracy, Design Flexibility, and Strength**
Gaurav Lunawat[1]; Shadi Nazarian[1]; [1]University of Texas at Arlington

STUDENT POSTER **Process-Microstructure-Property Comparison of C103 Wire DED via IR and Blue Laser**
Nicolene Gould[1, 2]; [1]ATI; [2]Oregon State University

STUDENT POSTER **Using Shorter Wavelengths of Light for Improved Digital Image Correlation Measurements at High Magnifications**
Prasenjit Dewanjee[1]; [1]Utah State University

STUDENT POSTER **Processing Optimization and Microstructural Analysis of ODS Alloy Fabricated via Wire-Powder Laser Directed Energy Deposition with Advanced Computational Modeling Validation**
Seongun Yang[1]; [1]Oregon State University

STUDENT POSTER **Particle Bonding Optimization of Silica Sand through Additive Manufacturing**
Pablo Castrejon[1]; [1]University of Tennessee, Knoxville

STUDENT POSTER **Fatigue Life Prediction of AM Ti-6Al-4V under Multiaxial Loading Conditions: Experimental Validation and Crack Growth Modeling**
Mohammad Khaboushani[1]; [1]Auburn University - National Center for Additive Manufacturing Excellence

STUDENT POSTER **Investigating Creep Mechanisms in LPBF-Fabricated Haynes 282 at High Temperature**
Farin Khan Raisa[1]; [1]Utah State University

STUDENT POSTER **Performance of Additively Manufactured ZnMg for Biomedical Implant Applications**
Florian Fischer[1]; [1]RWTH Aachen University - Digital Additive Production

STUDENT POSTER **Fabrication of Durable and Inextensible Silicon Rubber Molds Tailored for High-Pressure Embossing of IR Transparent Materials**
Abolfazl Vaheb[1]; [1]University of Alberta

STUDENT POSTER **Contextual Guidance in Robotic for Long-Horizon Manipulation Tasks: An LLM-Powered Approach to Manufacturing Automation**
Mahdi Bonyani[1]; [1]Louisiana State University

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ICAM 2025 TENTIVE PROGRAM AGENDA

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STUDENT POSTER **Multiaxial Fatigue of Additively Manufactured TPMS Lattice Structures: Experiments and Modeling**
Krista Dyer[1]; [1]Auburn University

STUDENT POSTER **Microstructure of Cobalt Alloy Fabricated by Laser Wire Directed Energy Deposition**
Marco Alvarado[1]; [1]Oregon State University

STUDENT POSTER **Large-Scale Printing of Wood Composites using a Multi-Axis 3D Printing System**
Senami Hodonu[1]; [1]University of Idaho

STUDENT POSTER **Structure-Performance Relationships of Multi-Material Jetting Polymeric Composites Designed at the Voxel Scale: Distribution and Composition Effects**
Niusha Daneshdoost[1]; [1]Duke University

STUDENT POSTER **Feasibility Study of Ti-6Al-4V Additive Manufacturing Process Characterization for Point of Care Manufacturing**
Shivangi Sarkar[1, 2]; [1]Mayo Clinic; [2]Arizona State University

STUDENT POSTER **Characterizing Spatial Variations in Spatter in LPBF of Ti-6Al-4V: Towards Predicting Spatter-Related Defects using Machine Learning**
Daniel Lund[1]; [1]University of Washington

STUDENT POSTER **Dynamic Fluid-Assisted Continuous Multi-Material 3D Printing for Seamless Gradient Structures**
Yao Wang[1]; [1]Arizona State University

STUDENT POSTER **Study of Permeability and Hydrogen Embargobility of 18%Ni Ferrous Alloys Obtained by Continuous Casting and Additive Manufacturing**
Andreia de Souza Martins Cardoso[1]; [1]São Paulo State University

STUDENT POSTER **Adhesive Reinforced 3D Printed Spicule Inspired Cylinders for Superior Fracture Toughness**
Armaghan Hashemi Monfared[1]; [1]Pennsylvania State University

STUDENT POSTER **Bandgap Formation and Tuning in Gyroid Lattice Structures: Simulations and Experiments**
Mohammad Shaaban[1]; [1]Texas A&M University

STUDENT POSTER **Multi-Material Laser Powder Bed Fusion: Effects of Build Orientation on Defects, Material Structure and Mechanical Properties**
Jacklyn Griffis[1]; [1]Pennsylvania State University

STUDENT POSTER **Molecular Dynamics Investigation of Aluminium 5052 / Carbon Nanotube Interfaces in Friction Stir Processed Surface Composites**
Shazman Nabi[1]; [1]National Institute of Technology Srinagar

STUDENT POSTER **Optimizing Pre-Processing of High-Performance Thermoplastics through Lyophilization**
Brent Griffith[1]; [1]Labconco

STUDENT POSTER **Fabricating a Photopolymeric Ceramic Slurry for Vat Photopolymerization**
Otoniel Durán Hernández[1]; [1]Colorado State University

STUDENT POSTER **Crystal Plasticity Simulation of Fatigue Crack Initiation in Additively Manufactured Metallic Parts Characterized by Laboratory Diffraction Contrast Tomography**
Indrajit Nandi[1]; [1]Auburn University - National Center for Additive Manufacturing Excellence

STUDENT POSTER **Improving the Buildability of Enclosed 3D Concrete Printed Structures: A Simulation-Driven Design Approach**
Nusrat Tabassum[1]; [1]Pennsylvania State University

STUDENT POSTER **Fatigue Crack Growth Behavior of Additively Manufactured Aluminum Alloys**
Mikyle Paul[1]; [1]Auburn University

STUDENT POSTER **3D Printing with Ready Mix Concrete**
Masoud Forsat[1]; [1]Oklahoma State University

STUDENT POSTER **Integrating Physics Informed Machine Learning and Experiments for Predictive Modeling in Metal Additive Manufacturing**
Mohamed Fattouh[1]; [1]Texas A&M University

STUDENT POSTER **Additive Manufacturing of Cu-30Ni: Comparing Microstructural Evolution and Mechanical Performance in W-DED and LPBF**
Debasis Rath[1]; [1]University of Pittsburgh

STUDENT POSTER **Simulation-Driven Optical Inspection Optimization for Sub-30nm Particle Detection in Semiconductor Manufacturing**
Hyoseop Shin[1, 2]; [1]Sungkyunkwan University; [2]Samsung Electronics

STUDENT POSTER **Toward Field-Ready UHPC for Underwater 3D Printing: Evaluating the Effect of Temperature on Rheological and Mechanical Behavior**
Masoud Pasbani[1]; [1]Louisiana State University

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ICAM 2025 TENTIVE PROGRAM AGENDA

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INDUSTRIAL SECTOR

AVIATION

06TH OCT 2025 (MON) – 08TH OCT 2025 (WED)

CO-ORGANIZERS:

Cindy Ashforth
Federal Aviation Administration, USA

Daniel Braley
Precision Additive Solutions, USA

Tamas Havar
Gulfstream Aerospace, USA

Bradley Hughes
GKN Aerospace, United Kingdom

Morgan Mader
Joby Aviation, USA

Simone Romano
Avio Aero, USA

06TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM REGULAR — **Ensuring Additive Manufacturing Consistency: A Multi-Batch Evaluation of Microstructure and Mechanical Performance**
Abdulcelil Bayar[1]; [1]Turkish Aerospace

AM REGULAR — **Characterizing and Qualifying Parts to MIL-STD-1587 for Semi-Critical Applications**
David Wickersham[1]; [1]TRIUMPH

AM INVITED — **Certification Paths and Market Response to No- / Low-Criticality AM Parts in Aircraft Cabins**
Pärtel-Peeter Kruuv[1]; [1]AM Craft

AM INVITED — **Overview of Current Problems Hindering Qualification and Certification of Laser Powder Bed Fusion (LPBF) for Aerospace Applications & Proposed Solutions**
Daniel Braley[1]; [1]Precision Additive Solutions

AM INVITED — **FAA Lessons Learned from the JMADD Program**
Cindy Ashforth[1]; [1]Federal Aviation Administration

AM INVITED — **A Proposal for Cost Effective Quality Assurance - The Use of Statistical Process Control in Additive Manufacturing to Sample Non-Destructive Testing**
Josef Spachtholz[1]; [1]MTU Aero Engines

AM REGULAR — **Deploying Process Compensated Resonance Testing (PCRT) for Additive Manufacturing Qualification in Aviation: Enhancing and Integrating Next-Generation Q&C Practices**
Jim Colovos[1]; [1]Vibrant

SESSION CHAIR (PM SESSION):
TBA

PM INVITED — **Joint Metal Additive Database Definition (JMADD): Ti-6Al-4V Baseline Qualification and Expansion Activities**
Neville Kuang Yu Tay[1]; [1]Wichita State University - National Institute for Aviation Research

PM INVITED — **B-Basis Allowables Qualification for FGF Processed ESD-PEKK**
Felix Tran[1]; Krysten Minnici[2]; [1]Eaton; [2]Arkema

PM INVITED — **Additively Manufactured Metallic Material Allowables - MMPDS Progress & Lessons Learned**
Doug Hall[1]; [1]Battelle Memorial Institute

PM INVITED — **Composite Materials Handbook (CMH-17) Volume 7 on Non-Metallic Additive Manufacturing**
Teresa Vohsen[1]; [1]Wichita State University - National Institute for Aviation Research

PM REGULAR — **Nadcap Program Developments in Metallic & Non-Metallic Additive Manufacturing**
Richard Freeman[1]; [1]Performance Review Institute

PM REGULAR — **SAE G-37 Committee, Process Intensive Materials Certification Guidance Update**
Shane Nicholson[1]; [1]Parker Aerospace

07TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM REGULAR — **Next-Generation Turboprop Engine Development: High-Performance Turbine Design and Advanced Cooling Hole Manufacturing**
Krzysztof Klimek[1]; Marcin Trajer[1]; [1]GE Aerospace

AM REGULAR — **Development of the Advanced Turboprop Engine Power Turbine Containing 3D Printed Hardware**
Michał Hetlof[1]; [1]GE Aerospace

AM INVITED — **Circularity in Aviation - Recycling Parts for Resilience and Environmental Sustainability Following the "Tornado 2 Tempest" Program**
Robert Higham[1]; [1]Additive Manufacturing Solutions

AM INVITED — **The Successful Story of the Fabricated Fan Case Mount Ring - From Idea to Industrialization**
Andreas Andersson[1]; [1]GKN Aerospace

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ICAM 2025 TENTIVE PROGRAM AGENDA

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AM **INVITED** **How to Reach 10x Capacity Before 2027 through Convergent Multi-Modalities Additive Manufacturing Systems**
Steve Fournier[1]; [1]General Atomics - Aeronautical Systems

AM **REGULAR** **Aircraft Repair of Al Components with Cold Spray while using Economic Nitrogen as Propelling Gas**
Markus Brotsack[1]; [1]Impact Innovations

AM **REGULAR** **Waste Heat Recovery Heat Exchanger for Next-Gen Propulsion**
Brian Fisher[1]; [1]RTX Technology Research Center

SESSION CHAIR (PM SESSION):
TBA

PM **INVITED** **Large Scale AM of Ti6Al4V for Aerospace Application at GKN Aerospace - M&P Perspective**
Alphons Antonysamy[1]; [1]GKN Aerospace

PM **INVITED** **The Impact of Process Size Effects on the Mechanical Performance of Laser Powder Bed Fusion Ti-6Al-4V**
Subbarao Raikar[1]; [1]Joby Aviation

PM **INVITED** **Machine Learning-Improved X-CT Detection of Fatigue Critical Defects in AM Al Alloys**
Stefano Beretta[1, 2]; [1]Politecnico di Milano; [2]Auburn University

PM **REGULAR** **Effect of Process Variable Drift within Tolerances on the Mechanical Behavior of Laser Powder Bed Fused Ti-6Al-4V**
Sajith Soman[1]; [1]Auburn University

PM **REGULAR** **Leveraging Machine Learning for Porosity Prediction in AM using FDM for Pretrained Models and Process Development**
Khadija Ouajjani[1]; [1]Wichita State University - National Institute for Aviation Research

PM **REGULAR** **Fully Automated Inspection, Damage Detection, and Decision-Making for Aeroengine Compressor Blades and Repair Geometry Generation by Morphing the CAD-Data on Actual Blade Condition Ready for Export to Any AM Technology**
Simon Feicks[1]; [1]additiveStream4D

08TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM **REGULAR** **Genetic Design of Maraging Steels and Nickel-Based Superalloys for Additive Manufacturing**
Pedro Rivera[1]; [1]University of Southampton

AM **REGULAR** **High Strength Aluminium Laser Powder Bed Fusion (LPBF) Development**
Guillaume Fallot[1]; [1]Airbus Helicopters

AM **INVITED** **Treating Aerospace Surfaces: Coatings and Laser Peening**
Lloyd Hackel[1]; [1]Curtiss-Wright Surface Technologies - Metal Improvement Company

AM **INVITED** **Facilitating Aerospace Innovation Arburg Plastic Freeforming Technology**
Sean Dsilva[1]; [1]ARBURG

AM **INVITED** **AI-Driven Design Optimization for Additive and Subtractive Manufacturing in Aerospace Applications**
Michael Bogomolny[1]; [1]InfinitForm

AM **INVITED** **Automate Advanced Aerospace Part Engineering: Discover Cognitive Design, A Generative Concurrent Engineering Platform Accelerating Complex Product Developments**
Rhushik Matroja[1]; [1]Cognitive Design Systems

AM **REGULAR** **Ecological Optimization of Hybrid Manufacturing, using Energy Simulation in Eco-Design, As Well As a Modified Topsis Approach for Multi-Criteria Decision Making**
Susanne Hemes[1]; [1]Access

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INDUSTRIAL SECTOR

CONSTRUCTION ON EARTH AND BEYOND

08TH OCT 2025 (WED) – 10TH OCT 2025 (FRI)

CO-ORGANIZERS:

Ramona Fayazfar
Ontario Tech University, Canada

Islam Mantawy
Rowan University, USA

Timothy Wangler
ETH Zürich, Switzerland

Ali Kazemian
Louisiana State University, USA

Ming Jen Tan
Nanyang Technological University, Singapore

08TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM REGULAR — **Hardened Property Testing of Extracted Additively Constructed Concrete**
Hunter Starr[1]; Robert Devine[1]; [1]Wiss, Janney, Elstner Associates

AM REGULAR — **Shotcrete 3D Printing: Transforming Construction, Layer by Layer**
Robin Dörrie[1]; [1]Technical University of Braunschweig

AM INVITED — **Construction on Earth and Beyond**
Francesca Moretti[1]; [1]WASP

AM INVITED — **Balancing Materials Design with Real-World Expectations: A Reality Check for 3DCP**
Dominic Jampo[1]; [1]Heidelberg Materials

AM INVITED — **Development of Low-Carbon Digital Cast Concrete via Static Mixing**
Yaxin Tao[1, 2]; [1]ETH Zürich; [2]Tongji University

AM INVITED — **Additively Constructed Hempcrete Structures for Sustainability and Resilience**
Petros Sideris[1]; [1]Texas A&M University

AM INVITED — **Sustainability in Construction 3D Printing**
Ming Jen Tan[1]; [1]Nanyang Technological University

SESSION CHAIR (PM SESSION):
TBA

PM INVITED — **Additive Construction of Concrete Structures: Bridging Research and Practice**
José Pinto Duarte[1, 2]; [1]Pennsylvania State University; [2]X-Hab 3D

PM INVITED — **Additive Manufacturing for Underwater Construction: Challenges, Innovations, and Future Directions**
Yen-Fang Su[1]; [1]Louisiana State University

PM REGULAR — **Additively Constructed Seismic Protective Bridge System**
Islam Mantawy[1]; [1]Rowan University

PM REGULAR — **Structural Performance of Multi-Material Topology Optimized 3D-Printed Reinforced Concrete Beams**
Humayun Basha Syed[1]; [1]Huaqiao University

PM REGULAR — **From Prescription to Prediction: Leveraging Data-Driven Certification for Performance-Engineered Cementitious Materials**
Nick Sonnentag[1]; [1]Sunnyday Technologies

PM INVITED — **Tor Alva - The Tallest 3D Printed Structure in the World: Material and Process Development**
Timothy Wangler[1]; [1]ETH Zürich

09TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM REGULAR — **Printing Concrete Like Plastic - On-Demand Setting of Concrete for 3D Printing**
Shravan Muthukrishnan[1]; [1]Dresden University of Technology

AM REGULAR — **Advancing Additive Manufacturing with Sustainable Geopolymer Materials and Equipment for 3D Construction Printing**
Jose Emiliano[1]; Tarek Maassarani[1]; [1]Geopolymer International

AM INVITED — **Innovation through Participatory Customization - Could Non-Speculative Co-Operative Housing and Additive Manufacturing be Mutually Beneficial Partners for Experimentation?**
Sascha Delz[1]; [1]University of Southern California

AM INVITED — **Robotics and Automation for Complex Systems Integration in Buildings and Energy Generation, Storage, and Distribution Infrastructure on Earth and Beyond**
Naveen Kumar Muthumanickam[1]; [1]National Renewable Energy Laboratory

AM INVITED — **The New 3DCP Moonshot: How the Commercial Sector is Advancing Additive Manufacturing**
Zachary Mannheimer[1]; [1]Alquist

AM INVITED — **Closing the Loop: Eco-Friendly 3D Printing Construction with Waste-Derived Materials**
Ramona Fayazfar[1]; [1]Ontario Tech University

AM REGULAR — **Resilient Indigenous Infrastructure Materials for 3DP Construction**
Hunain Alkhateb[1]; [1]University of Mississippi

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SESSION CHAIR (PM SESSION):
TBA

PM INVITED — **Additively Manufactured Seismic Metal Fuses for Braced Frames**
Islam Mantawy[1]; [1]Rowan University

PM INVITED — **Metal 3D-Printed Diamond-Shaped Lattice Steel Structural Elements: Design Concept and Structural Behavior**
Giada Gasparini[1]; Vittoria Laghi[1]; [1]University of Bologna

PM INVITED — **Investigation of Sustainable and High-Performance Thermoplastic Materials for Architectural and Construction Applications via Robotic Large Format Additive Manufacturing**
Fabio Caltanissetta[1]; [1]Caracol

PM REGULAR — **Robotic 3D Printing of Clay-Hemp Based Structural Wall for the Sustainable Construction Industry**
Eden Binega Yemesegen[1, 2]; [1]Simpson Gumpertz & Heger; [2]Pennsylvania State University

PM REGULAR — **Revolutionizing Concrete Quality Control with IoT and Machine Learning**
Jaymi Fridley[1]; [1]Verifi

PM REGULAR — **Computer Vision to Control Interlayer Bond Quality in 3DCP**
Rakesh Khan[1]; [1]ARtx

PM REGULAR — **Digital Image Correlation Analysis of 3D Printed Concrete Walls under Reversed In-Plane Cyclic Lateral Loading**
Mohammad Aghajani Delavar[1]; [1]Walker Consultants

10TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM REGULAR — **AI-Enhanced Robotic Fabrication of Customizable Ceramic Facade Modules for Passive Cooling Applications**
Eleni Stefania Kalapoda[1]; [1]Columbia University - Graduate School of Architecture, Planning and Preservation

AM REGULAR — **Construction Robotic 3D Print Concrete Commercialization Now and General Purpose AI Powered Giantroits for Future**
Ziyou Xu[1]; [1]RIC Robotics

AM INVITED — **Telerobotic Fabrication in Extreme Environments: Remote Control and Monitoring Schemes**
Ali Kazemian[1]; [1]Louisiana State University

AM INVITED — **Autonomous Mobile 3D Construction for Contingency Infrastructure: A Systems-Level Approach to Military Hardening and Rapid Deployment**
Bruce Kraselsky[1]; [1]X-Hab 3D

AM INVITED — **Using Robotic Crawler 3D Concrete Printing to Expand Industrialized Construction Capabilities in Virginia**
Andrew McCoy[1]; [1]Virginia Tech - Virginia Center for Housing Research

AM INVITED — **Real-Life Lessons from Modular Development, Design, and Construction**
Derek Leavitt[1]; [1]Ehrlich Yanai Rhee Chaney Architects

AM INVITED — **3D AIT Housing Program - Complexities and Realities**
Pete Evans[1]; [1]Iowa State University

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ICAM 2025 TENTIVE PROGRAM AGENDA

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INDUSTRIAL SECTOR

DEFENSE

06TH OCT 2025 (MON) – 07TH OCT 2025 (TUE)

CO-ORGANIZERS:

Jesse Boyer
Pratt & Whitney, USA

Fernando Lasagni
Novaindef, Spain

Cindy Waters
Naval Surface Warfare Center - Carderock Division, USA

Sascha Hartig
Germany Navy, Germany

Travis Mayberry
Divergent, USA

06TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM REGULAR — **America Makes' Roadmap Advisory Group: Current Vision of Advancing Additive Manufacturing and a Path Forward**
John Martin[1, 2]; Andrew Thompson[3]; [1]America Makes; [2]National Center for Defense Manufacturing and Machining; [3]Northrop Grumman

AM REGULAR — **ColdMetalFusion - Titanium Part for Defense Applications**
John Calhoun[1]; [1]CADmore Metal

AM INVITED — **We Build Giants, Additive Manufacturing in Naval Applications**
Cynthia Waters[1]; [1]Naval Surface Warfare Center - Carderock Division

AM INVITED — **Additive Manufacturing Qualification Approach for the UK's Submarines**
Anna Tholen[1]; [1]Ministry of Defence - Submarine Delivery Agency

AM INVITED — **Strengthening Operational Capabilities through Additive Manufacturing in the Spanish Armed Forces**
Fernando Lasagni[1]; [1]Novaindef

AM INVITED — **Scaling Decentralized Additive Manufacturing in Operational Environments**
Véronique Zijlstra[1]; [1]Fieldmade

AM INVITED — **Advancements in Additive Manufacturing - Challenges and Opportunities for Defense**
Heiko Blunk[1]; [1]Fraunhofer IAPT

AM REGULAR — **Snowbird Technologies' Supports US Navy Exercises with DED Manufacturing Platform**
Jeremy Heerdink[1]; [1]Snowbird Technologies

AM REGULAR — **Military Drone Technology: Using Additive and Advanced Manufacturing to Enhance Capabilities**
Benjamin Wolf[1]; [1]Bundeswehr (German Armed Forces)

SESSION CHAIR (PM SESSION):
TBA

PM INVITED — **NoviVision: Novineer's AI-Enhanced Reverse Engineering for Maintenance, Repair, and Overhaul**
Ali Tamijani[1, 2]; [1]Novineer; [2]Embry-Riddle Aeronautical University

PM INVITED — **Nikon Advanced Manufacturing Ecosystem to Enable and Scale the Defense Industrial Base on U.S. Soil**
Behrang Poorganji[1]; [1]Nikon AM

PM INVITED — **Securing the Frontline: Strategic Applications and Risks of 3D Printing in Military Operations**
Jiří Průša[1]; [1]Prusa Research

PM REGULAR — **Reactive Extrusion Additive Manufacturing using Thermoset Polyurethane for Spare Parts in Military-Maritime Applications**
Fabian Mussbach[1]; [1]Helmut Schmidt University / University of the Federal Armed Forces Hamburg

PM REGULAR — **Enterprise AI Integration: Revolutionizing America's Defense Industrial Base through Intelligent Manufacturing**
Ivan Madera[1]; [1]Adaptiv AI

PM REGULAR — **Additive Manufacturing in Army Ground Vehicles - Air Inlet Duct Case Study**
Tad Steinberg[1]; [1]Siemens Energy

PM INVITED — **Successes and Challenges of AM in Military Aerospace Sustainment**
Joe Ott[1]; [1]Pratt & Whitney

07TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM REGULAR — **A Performance-Based Approach to Metal AM Qualification**
Mark Shaw[1]; [1]Wichita State University - National Institute for Aviation Research

AM REGULAR — **GMA-DED Alloy 625 for Critical Defense Applications**
Edward Peterson[1]; [1]Laser Welding Solutions

AM INVITED — **CuNi10 Development for Defense Applications using Laser Powder Bed Fusion Technology**
Alex Garcia Olcoz[1]; [1]Renishaw

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AM **INVITED**
NCAMP-DRAM: A New Center Formed for the Rapid Publication of Advanced Materials Databases for US Defense Interests
Rachael Andrulonis[1]; [1]Wichita State University - National Institute for Aviation Research

AM **INVITED**
Unique Advantage of LPBF-AM, Unlocking Alloy Performance with Breakthrough Improvement
Youping Gao[1]; [1]Castheon

AM **INVITED**
Understanding Fatigue Behavior in Additively Manufactured Nickel Aluminum Bronze
Aeriel Leonard[1]; [1]Ohio State University

AM **INVITED**
Innovative Chemical Approach for Mitigating Internal Channel Obstructions in Metal Additive Manufacturing Heat Exchangers
Hunter Rauch[1]; [1]Pennsylvania State University - Applied Research Laboratory

AM **INVITED**
Growing Confidence in Aheadd CP1 Aluminum using LPBF Technology for Real World Applications including Casting Replacements in Defense
Ravi Shahani[1]; [1]Constellium

SESSION CHAIR (PM SESSION):
TBA

PM **INVITED**
AI-Enhanced Additive Manufacturing for Rapid Deployment of High-Quality Defence Spare Parts
Gregor Reischle[1]; [1]Qualified AM

PM **INVITED**
Qualifying Elastomers in Defense Applications: From Propellant to Spare Parts
Cora Leibig[1]; [1]Chromatic 3D Materials

PM **INVITED**
Plasma Arc Manufacturing for Aerospace and Defense
Reece Fiebich[1]; [1]Coronal Technologies

PM **REGULAR**
Application of Additive Manufacturing to Armament Systems
Alexandra Vest[1]; [1]U.S. Army Combat Capabilities Development Command - Armaments Center (Benét Laboratories)

PM **REGULAR**
Standardizing Process Compensated Resonance Testing (PCRT) for Additive Manufacturing Across Defense Platforms
Jim Colovos[1]; [1]Vibrant

PM **REGULAR**
Deployable In-Situ Additive Manufacturing and Repair with Molten Metal Deposition Technology
Jan De Pauw[1]; [1]ValCUN

PM **INVITED**
Enhancing Defense Readiness through Directed Energy Deposition: Meltio's AM Technology in Action
Alejandro Nieto Jiménez[1]; [1]Meltio

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ICAM 2025 TENTIVE PROGRAM AGENDA

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INDUSTRIAL SECTOR

ENERGY, MARITIME, AND OIL & GAS

06TH OCT 2025 (MON) – 07TH OCT 2025 (TUE)

CO-ORGANIZERS:

Ali Bonakdar
University of North Carolina at Charlotte, USA

Soumya Nag
Oak Ridge National Laboratory, Italy

Yash Parikh
EOS, USA

Isabella van Rooyen
Pacific Northwest National Laboratory, USA

Carlo De Bernardi
ConocoPhillips, USA

Igor Ortiz
Ikergune / Etxetar, Spain

Valeria Tirelli
AIDRO, Italy

Mostafa Yakout
University of Alberta, Canada

06TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM REGULAR — **Framework for Qualification Testing of Additively Manufactured Components in the Energy Industry**
Dave Waldbillig[1]; [1]InnoTech Alberta

AM REGULAR — **Application-Based Corrosion Performance Study of SS316L, SS410L, Inconel 625, and Inconel 718 Alloys for Valve Components in Oil and Gas Environments**
Ankit Sahu[1]; [1]Objectify Technologies

AM INVITED — **Setting the Benchmark: Additive Manufacturing Standards in the Oil and Gas Industry**
Andrew Duggan[1]; Satya Ganti[1]; [1]Baker Hughes

AM INVITED — **Manufacturing a New Paradigm**
Charles Fisher[1]; [1]Office of Naval Research

AM INVITED — **Large Scale Additive Manufacturing for Supply Chain Resilience and Sustainability**
Pin Lu[1]; [1]Solvus Global

AM INVITED — **Convergent Manufacturing of Large-Scale Components for Nuclear Applications**
Soumya Nag[1]; [1]Oak Ridge National Laboratory

AM REGULAR — **Qualification of Additively Manufactured Alloy 718 in Sour Service Environment - A Printing / Heat Treatment Optimization Approach**
Hernan Rincon[1]; Sid Raje[2]; [1]ConocoPhillips; [2]Velo3D

AM REGULAR — **Building Blocks for Additive Manufacturing Safe Adoption on Critical Parts for Oil & Gas Subsea Applications**
Victor Hugo Oliveira[1]; [1]TechnipFMC

SESSION CHAIR (PM SESSION):
TBA

PM INVITED — **Impact of AM Processing of a Low Emission Steel Powder on Material Properties and Sustainability of a Final Component**
Hanna Nilsson Åhman[1]; [1]SSAB

PM INVITED — **Driving Sustainability through Additive Manufacturing: Life Cycle Assessment in the Production of Hydraulic Components**
Stefania Cacace[1]; [1]Politecnico di Milano

PM INVITED — **Industrial Gas Turbines Decarbonization Triggered by Additive Manufacturing**
Vladimir Navrotsky[1]; [1]Siemens Energy

PM REGULAR — **From Physical Stock to Digital Warehouse: Transforming Supply Chain in Energy Industry**
Faisal Iqbal[1]; Mitchell Loyd[2]; [1]Baker Hughes; [2]Woodside Energy

PM REGULAR — **Cold Metal Fusion for Impeller Manufacturing: Enhancing Efficiency and Performance through an Integrated Additive Manufacturing Approach**
Marcel Strobel[1]; [1]Headmade Materials

PM REGULAR — **Productivity Enhancement of PBF-LB/M by Laser Beam Defocusing: A Review on In-Situ Alloy 718 Microstructure and Properties**
Niccolò Baldi[1]; Lokesh Chandrabalan[1]; [1]Baker Hughes

07TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM REGULAR — **Gas Turbine Isolation Rings - Successful Transition From Conventional to AM**
Tad Steinberg[1]; [1]Siemens Energy

AM REGULAR — **Additive Manufacturing of WC-Reinforced Metal Matrix Composites via Laser Powder Bed Fusion for Wear-Resistant Applications**
Dave Waldbillig[1]; [1]InnoTech Alberta

AM INVITED — **Blisk Repair Automation by Laser Powder Directed Energy Deposition**
Igor Ortiz[1, 2]; [1]Ikergune; [2]Etxetar

AM INVITED — **Dynamic Beam Laser (DBL) for Metal AM & Welding**
Stan Guthrie[1]; [1]Civan Lasers

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AM
INVITED

Extreme High-Speed Laser Material Deposition (EHLA) as a Key Technology in the Energy Sector: A Technical Overview
Viktor Glushych[1]; [1]Fraunhofer ILT

AM
INVITED

The Application of Additive Manufacturing Technology to Korea Independent Model of Gas Turbine
Jiwon Lee[1]; [1]Doosan Enerbility

AM
REGULAR

Big Parts, Lean Setup: Qualification Requirements for Large-Scale WAAM
Filippo Gilardi[1]; [1]MX3D

AM
REGULAR

Superior Magnetic Properties in Structurally-Tailored 3D-Printed Electric Motor Cores
Paria Karimi[1]; [1]OptiFab Technologies

SESSION CHAIR (PM SESSION):
TBA

PM
INVITED

Advanced Manufactured A709 Material Fabrication and Response to High Temperature Ion Irradiation
Isabella van Rooyen[1]; [1]Pacific Northwest National Laboratory

PM
INVITED

Progress Toward Deploying PM-HIP Alloys for Nuclear Energy Applications
Janelle Wharry[1]; [1]University of Illinois Urbana-Champaign

PM
INVITED

Effect of Post-Build Heat Treatment on Mechanical Behavior of LBPF Cu-30Ni-Nb
Zachary Harris[1]; [1]University of Pittsburgh

PM
REGULAR

Effects of WAAM Process Parameters on Carbon Steel's Surface Finish and the Resulting Performance of Coatings for Sub-Sea Applications
Afif Batal[1]; [1]DEEP Manufacturing

PM
REGULAR

Effects of Post-Heat Treatment on the Microstructure and Mechanical Properties of Wire Arc Additively Manufactured Nickel Aluminum Bronze
Selda Nayir[1]; [1]Oak Ridge National Laboratory

PM
INVITED

Surface Finishing of Haynes® 282 Superalloy using Chemical and Chemical-Mechanical Polishing
Joshua Boykin[1]; [1]REM Surface Engineering

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ICAM 2025 TENTIVE PROGRAM AGENDA

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INDUSTRIAL SECTOR

GROUND TRANSPORTATION AND HEAVY MACHINERY

06TH OCT 2025 (MON)

CO-ORGANIZERS:

Pascal De Guio
SNCF Reseau, France

Ante Lausic
General Motors, USA

Thierry Marchione
Caterpillar, USA

Diego Montoya-Zapata
Etxetar, Spain

Linus Tillmann
Mobility goes Additive, Germany

06TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM **REGULAR** — **Leveraging AI to Reduce Product Cost and Carbon: How Leading Manufacturers Do It during Design**
Mark Rushton[1]; [1]aPriori Technologies

AM **REGULAR** — **Benefits of Additive Manufacturing in Tooling and Non-Tooling Applications**
Marcus Pettersson[1]; [1]Uddeholm

AM **INVITED** — **Printing a Battery: High Volume Additive Manufacturing for Rechargeable Lithium Batteries**
Karl Littau[1]; [1]Sakuu

AM **INVITED** — **Area Printing by Seurat - No Compromise AM for the Transportation Sector**
Michael Kenworthy[1]; [1]Seurat Technologies

AM **INVITED** — **Magnus Metal's Digital Casting Capability**
Ardy Johnson[1]; [1]Magnus Metal

SESSION CHAIR (PM SESSION):
TBA

PM **INVITED** — **Schneider Electric Journey to Deploy Additive Manufacturing at Industrial Scale**
Guillaume Fribourg[1]; Louise Bailey[1]; [1]Schneider Electric

PM **INVITED** — **Beyond the Lab: Industrialization of Laser Powder DED for the Automotive Industry**
Diego Montoya-Zapata[1]; [1]Etxetar

PM **INVITED** — **Selective Coating of Mining Components with High-Speed Directed Energy Deposition (DED): Enhancing Wear Resistance and Durability**
Oleg Raykis[1]; Simone Maffia[1]; [1]Ponticon

PM **REGULAR** — **Polymer and Metal Additive Manufacturing with Continuous Fiber Injection Process as a Post Process for Rail Infrastructure Spare Part Production**
Pascal De Guio[1]; Philippe Kuchly[1]; [1]SNCF Réseau

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ICAM 2025 TENTIVE PROGRAM AGENDA

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INDUSTRIAL SECTOR

MEDICAL

07TH OCT 2025 (TUE) – 10TH OCT 2025 (FRI)

CO-ORGANIZERS:

Amit Bandyopadhyay
Washington State University, USA

David Dean
Ohio State University, USA

Laura Gilmour
LG Strategies, USA

Sean McEligot
Mayo Clinic, USA

Sophie Cox
University of Birmingham, United Kingdom

Matthew Di Prima
U.S. Food and Drug Administration, USA

Ryan Kircher
rms Company, USA

07TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (PM SESSION):
TBA

PM INVITED — **Precision in Porosity: Advancing Control of Lattice Density in Additively Manufactured Titanium Implants**
Alek Nelson[1]; Alex Gobran[1]; [1]rms Company

PM INVITED — **Design Considerations and Controls for Patient-Matched, 3D Printed Surgical Guides**
Megan Loghry[1]; Victoria Sears[1]; Mayo Clinic

PM INVITED — **Personalized, Osseointegrative, 3D Printed Orthopedic Implants**
Ken Gall[1, 2]; [1]Duke University; [2]restor3d

PM REGULAR — **Rapid Tooling for Intraoperative Fabrication of Patient-Specific Cranial Implants using Additive Manufacturing**
Eugen Musienko[1]; [1]Helmut Schmidt University / University of the Federal Armed Forces Hamburg

PM REGULAR — **Additive Manufacturing of Nanocomposite Contact Lenses and Biophotonic Devices**
Haider Butt[1]; [1]Khalifa University

PM REGULAR — **Topology Optimization and Additive Manufacturing Techniques to Create Biomimetic Light-Weight Vertebral Bone**
Hacene Ameddah[1]; [1]University of Batna 2

08TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM REGULAR — **Exploring Ceramic Additive Manufacturing in Dentistry: Improvement or Impairment?**
Les Kalman[1]; [1]Western University

AM REGULAR — **Improved Dental and Orthopedic Implants Additively Manufactured with a Novel Laser Sheet Fusion Technique**
Chang Quan (CQ) Lai[1]; [1]Nanyang Technological University

AM INVITED — **Transforming Orthopedic Care: Integrating Computational Design and 3D Printing at the Point of Care**
Ali Kiapour[1, 2]; [1]Harvard Medical School - Massachusetts General Hospital; [2]4WEB Medical

AM INVITED — **Modified Standard Test Methods Supporting the Characterization of Additively Manufactured Titanium Porous Material**
Jason Langhorn[1]; [1]Element Materials Technology

AM INVITED — **Acoustic NDT of AM Medical Devices**
Daniel Rodríguez Sanmartín[1]; [1]Theta Technologies

AM REGULAR — **Radiological Characterization of Additively Manufactured Phantoms: Assessing Material-Layering Effects and Infill Strategies for CT Equivalency**
James Harold Cabalhug[1]; [1]DOST - Metals Industry Research and Development Center (AMCen)

AM REGULAR — **Evaluation of DMLS Lattice Compression Test Specimen Geometry Effects on Results Variability**
Ryan Gruell[1]; Trey Rodgers[1]; [1]Zimmer Biomet

SESSION CHAIR (PM SESSION):
TBA

PM INVITED — **Corrosion Fatigue Behavior of Additively Manufactured Ti6Al4V Alloy**
Amit Bandyopadhyay[1]; [1]Washington State University

PM INVITED — **Effects of Creep in Titanium at Room Temperature during Tensile and Profilometry-Based Indentation Plastometry Testing**
Jimmy Campbell[1]; [1]Plastometrex

PM INVITED — **Additively Manufactured Functionalized Titanium and Calcium Phosphate Implants**
Susmita Bose[1]; [1]Washington State University

PM REGULAR — **4D-Printed Anisotropic Collagen Scaffolds for Ligamentous Tissue Engineering Applications**
Nashaita "Nash" Patrawalla[1]; [1]Poseidon Medical

PM REGULAR — **Optimization of Bioink Printability using Machine Learning Models**
George Zhuo Tan[1]; [1]University of Houston

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ICAM 2025 TENTIVE PROGRAM AGENDA

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09TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM REGULAR — **Design and Additive Manufacturing of Customized Metallic Implants**
Yang (Tony) Tian[1]; [1]Monash Centre for Additive Manufacturing

AM REGULAR — **Preliminary Evaluation of the Suitability of the PA6-Ti6Al4V Processed using Selective Laser Sintering for Medical Applications**
Marianito Margarito[1]; [1]DOST - Industrial Technology Development Institute

AM INVITED — **Achieving Product-Specific Mechanical Properties in CpTi1 Medical Devices: From Powder Manufacturing to Post-Processing**
Kaoutar Bensaid[1]; Ryan Kircher[2]; [1]GE Aerospace - AP&C; [2]rms Company

AM INVITED — **Statistical Analysis of the Impact of Powder Reuse on the Quality of Additively Manufactured Medical Devices**
Ari Howard[1]; [1]Ricoh

AM INVITED — **Evaluating Tensile and Fatigue Effects of Different HIP Cycles on DMLM Ti6Al4V Samples With and Without Introduced Porosity**
Ryan Gruell[1]; Trey Rodgers[1]; [1]Zimmer Biomet

AM REGULAR — **Adjusting the Wear Resistance of Ti6Al4V using HIP**
James Shipley[1]; [1]Quintus Technologies

AM REGULAR — **Additively Manufactured Ti6Al4V with a Nanocrystalline Diamond Coating to Prevent Wear and Metal Hipersensivity**
Rafael Trommer[1]; [1]INMETRO - National Institute of Metrology, Standardization and Industrial Quality

SESSION CHAIR (PM SESSION):
TBA

PM INVITED — **Hospital Quality Management System: Look Before You Leap**
Gregory Voss[1]; [1]Veterans Health Administration

PM INVITED — **Validation of Hospital-Based 3D Printing of Titanium Implants: Lessons Learned in a First Effort**
Sean McEligot[1]; [1]Mayo Clinic

PM REGULAR — **Ensuring Excellence: Qualification and Certification in MedTech and Point-of-Care Innovations**
Gregor Reischle[1]; [1]Qualified AM

PM REGULAR — **The Journey to a 510 (k) Submission for a Point-of-Care Facility**
Peter Liacouras[1]; [1]Walter Reed National Military Medical Center

PM REGULAR — **The Role of a Master Validation Plan in Product Realization for Point-of-Care Additive Manufacturing of Patient-Matched Implants**
Aviktha Shivashankar Reddy[1]; [1]Mayo Clinic

10TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM REGULAR — **Biomechanically Informed Virtual Surgical Planning for Craniomaxillofacial Skeletal Reconstruction**
David Dean[1]; [1]Ohio State University

AM REGULAR — **Design and Additive Manufacturing of a Metacarpal External Fixation System for Low-Cost, On-Demand Medical Applications in Developing Regions**
Leif Oliver Coronado[1]; [1]DOST - Metals Industry Research and Development Center (AMCen)

AM INVITED — **Bioprinted Vascularized Bone: Designing for the Future of Care**
Beth Ripley[1]; [1]Veterans Health Administration

AM INVITED — **Titanium Velcro - Enabling Implant Modularity with Novel Interchangeable Components**
Matthew Shomper[1]; [1]Not a Robot Engineering

AM INVITED — **Influence of the LPBF Process Chain for the Application of 316L Additively Manufactured Medical Device Components**
Fabienne Riester[1]; [1]KARL STORZ

AM INVITED — **The MEWron: Reducing the Cost of Entry to Melt Electrowriting and Thin Membrane Technology**
David Dean[1]; [1]Ohio State University

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ICAM 2025 TENTIVE PROGRAM AGENDA

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INDUSTRIAL SECTOR

SPACE

08TH OCT 2025 (WED) – 10TH OCT 2025 (FRI)

CO-ORGANIZERS:

Christo Dordlofva
GKN Aerospace, USA

Shahrooz Nafisi
Rocket Lab, USA

Xueyong (Kevin) Qu
The Aerospace Corporation, USA

John Vickers
NASA, USA

Eliana Fu
TRUMPF, USA

Andrew Norman
European Space Agency, The Netherlands

Maximilian Strixner
The Exploration Company, Germany

08TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM REGULAR **Novel Delta Qualification Framework for Multi-Platform Additive Manufacturing of Aerospace Hardware**
Thomas Pomorski[1]; Steve Walton[2]; [1]Ursa Major; [2]Dyndrite

AM REGULAR **Qualification of 3D-Printed Titanium Volume-Optimized Propulsion Tanks**
Robert Fowler[1]; [1]Utah State University - Space Dynamics Laboratory

AM INVITED **AIAA Structural Requirements for Verification of Additively Manufactured Spaceflight Hardware**
Brett Soltz[1]; [1]The Aerospace Corporation

AM INVITED **A Framework for Additive Manufacturing Material Readiness Levels in Aerospace Applications**
Paul Gradl[1]; [1]NASA - Marshall Space Flight Center

AM INVITED **Process Qualification, Additive Manufacturing and Post Processing of a Hydrogen Peroxide / Kerosene 6 kN Aerospike Breadboard Engine**
Elena López[1]; [1]Fraunhofer IWS

AM REGULAR **Accelerated Mechanical Testing: Investigation of NASA HR-1 using Profilometry-Based Indentation Plastometry**
Marcus Gaiser-Porter[1]; [1]Plastometrex

AM REGULAR **A Comparative Study of Stress-Strain Response from Indentation Plastometry and Standard Tensile Testing in AM Alloys**
Mohammad Pourshams[1]; [1]Nikon

SESSION CHAIR (PM SESSION):
TBA

PM INVITED **Optimizing Large-Scale Powder Bed Fusion Manufacturing of Copper Alloys for Space Propulsion: Best Practice and Challenges**
Tobias Petzinger[1]; [1]AMCM

PM INVITED **Investigation of the Impact of Silicide Coating on the Fatigue Strength of Additively Manufactured C103 for Space Applications**
Christopher Mihm[1]; [1]Thrustworks Additive Manufacturing

PM INVITED **Material Characterization of Additively Manufactured C103 for Aerospace Applications**
Lea Strauss[1]; [1]University of the Bundeswehr Munich

PM REGULAR **Comparison between Defocused and Ring Beam on the Densification and Mechanical Properties of Additively Manufactured In718 Parts**
Kenan Yetil[1]; Timm Rohwer[1]; [1]Nikon SLM Solutions

PM REGULAR **Optimizing Laser Powder Bed Fusion Processing of Russian-Grade XH-67 Alloy for Advanced Spacecraft Engine Components: Enhancing Thermal and Structural Performance**
Ankit Sahu[1]; [1]Objectify Technologies

09TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM REGULAR **Efficacy of Thermal Energy Method on Laser Powder Bed Fusion Support Structure Elimination for Novel GRX-810 Alloy**
Aaditya Pore[1]; [1]NASA - Marshall Space Flight Center

AM REGULAR **RAPTURE: Enabling Single-Step Multi-Material Manufacturing with Continuous Rotary LPBF**
Michael Tucker[1]; Markus Bambach[1]; [1]ETH Zürich

AM INVITED **Challenges and Opportunities with the Adoption of Additive Manufacturing for Space Systems**
Vinay Goyal[1]; [1]The Aerospace Corporation

AM INVITED **A Comparison of Print Material and Process Control using Wire-Laser and Wire-Arc Directed Energy Processes for High-Strength Aluminum Structures**
Nick Bagshaw[1]; [1]Fortius Metals

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ICAM 2025 TENTIVE PROGRAM AGENDA

Updated as of 07th August 2025

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AM **INVITED** **Advancements in Additive Manufacturing Capabilities for the NewATHENA Mission: Exploring Large-Scale Titanium Components using Direct Energy Deposition**
Mirko Riede[1]; [1]Fraunhofer IWS

AM **REGULAR** **Assessing the Reusability of Refractory Metal Powder in LP-DED Processing**
Byoungjik Lim[1]; [1]Korea Aerospace Research Institute

AM **REGULAR** **Investigation of Process By-Products when Using Different Laser Beam Shapes in L-PBF of In718**
Timm Rohwer[1]; Kenan Yetil[1]; [1]Nikon SLM Solutions

SESSION CHAIR (PM SESSION):
TBA

PM **INVITED** **Development of New Advanced Alloys Designed for Additive Manufacturing**
Andrew Norman[1]; [1]European Space Agency

PM **INVITED** **Laser Melting Deposition of Aluminium Launch Interface Rings: Design, Process Development and Optimization**
João Gandra[1]; [1]European Space Agency

PM **INVITED** **Rapid Rocket Engine Development Enabled by Additive Manufacturing**
Benjamin Graybill[1]; Dustin Crouse[1]; [1]Agile Space Industries

PM **REGULAR** **AM as Rocket Science - An AM-Built Heat Exchanger for Rocket Propulsion Applications**
Ian Fordyce[1]; [1]Conflux Technology

PM **REGULAR** **Using ICME to Design a Novel High Strength, Printable, and Burn Resistant Nickel-Based Superalloy for Re-Usable Rocket Engines**
Gary Whelan[1]; [1]QuesTek Innovations

10TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM **REGULAR** **Development of Additive Manufacturing for the International Space Station**
Stewart Williams[1, 2]; [1]Cranfield University; [2]WAAM3D

AM **REGULAR** **Mass Reduction, Optimization, and Fabrication of a 3U Nanosatellite Structure through Advanced Additive Manufacturing Methods**
Jose Bernardo Padaca III[1]; [1]DOST - Metals Industry Research and Development Center (AMCen)

AM **INVITED** **Building Blocks Toward an Orbital Factory**
Jacob Rome[1]; [1]The Aerospace Corporation

AM **INVITED** **Novel Crush Lattice Fabrication for the Mars Sample Return Mission: Challenges, Solutions, Benefits and Future Work**
Justin Michaud[1]; [1]REM Surface Engineering

AM **REGULAR** **DMLS Lattice Structures for CubeSat Panels: Advancing Lightweight Aerospace Design**
Emmanuel Arriola[1]; [1]DOST - Metals Industry Research and Development Center (AMCen)

AM **REGULAR** **Sustaining the Stars: How In-Space Production Will Define the Next Era of Exploration**
James Regenor[1]; [1]VeriTX

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ICAM 2025 TENTIVE PROGRAM AGENDA

Updated as of 07th August 2025

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VALUE CHAIN

ADVANCED TOPICS IN AM: QUALIFICATION, NEW MATERIALS, AND POST-PROCESSING

06TH OCT 2025 (MON) – 10TH OCT 2025 (FRI)

CO-ORGANIZERS:

Chad Beamer
Quintus Technologies, USA

Nicholas Derimow
NIST, USA

Elena López
Fraunhofer IWS, Germany

Tiago Silva
INEGI - Institute of Science and Innovation in Mechanical and Industrial Engineering, Portugal

Cory Cunningham
Boeing, USA

Colton Katsarelis
NASA - Marshall Space Flight Center, USA

Graham Matheson
Oerlikon AM, Germany

06TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM REGULAR — **DED Hybrid for On-Demand Manufacturing**
Kevin Stenberg[1]; [1]DMG MORI

AM REGULAR — **Automated Tool Path Planning Without the Use of CAD/CAM for High-Throughput Industrial Directed Energy Deposition (DED) Applications**
Jeffrey Riemann[1]; [1]FormAlloy Technologies

AM INVITED — **Wire-Arc Directed Energy Deposition Solutions for LH2, GH2 and Physiosorbed Absorbed Lightweight Aluminium-Based Hydrogen Storage Systems with Integrated Thermal Management for Carbon-Free Mobility Applications**
Florian Pixner[1]; [1]AIT Austrian Institute of Technology

AM INVITED — **Accurate Prediction of Melt Pool Dimensions and Printability Maps: Combining Experimental Studies with Process Simulations**
Adam Hope[1]; [1]Thermo-Calc Software

AM INVITED — **Breaking the Boundaries of Additive Manufacturing by Additive Friction Stir Deposition**
Evren Yasa[1]; [1]University of Sheffield - Advanced Manufacturing Research Centre (AMRC)

AM REGULAR — **Molten Metal Deposition for High-Strength Aluminum Alloys: Process Feasibility & Oxidation Control**
Jan De Pauw[1]; [1]ValCUN

AM REGULAR — **Evaluation of Anisotropy and Energy Consumption of Additive Manufacturing of Nanocomposite in a Vacuum Environment**
Marianito Margarito[1]; [1]DOST - Industrial Technology Development Institute

SESSION CHAIR (PM SESSION):
TBA

PM INVITED — **Tailoring Post-Processing Treatments for Additive Manufacturing**
Peeyush Nandwana[1]; [1]Oak Ridge National Laboratory

PM INVITED — **Post-Processing Effects on Surface Roughness and Mechanical Properties of Metal-Based Powder Bed Fusion Components: Unlocking the Full Potential of AM through HIP and Surface Finishing**
Agustin Diaz[1]; [1]REM Surface Engineering

PM INVITED — **On Reducing Variability and Improving the Fatigue Properties of Ti6Al4V Produced by Laser Powder Bed Fusion through HIP: Uncovering Hidden Defects**
Dwayne Arola[1]; [1]University of Washington

PM REGULAR — **An Overview of the Dimensional Accuracy of Additively Manufactured Parts and the Proposal of a New Benchmark Artifact**
Erfan Maleki[1]; [1]Auburn University - National Center for Additive Manufacturing Excellence

PM REGULAR — **High-Performance Laser Optimization Algorithm for LPBF Systems**
Efrén Fernández García[1]; [1]ArcelorMittal

PM REGULAR — **Increasing the Rate and Size of LPBF Production**
Matthew Rostern-Thomson[1]; [1]Rolls-Royce

07TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM REGULAR — **Additive Manufacturing of Oxide Dispersion Strengthened Stainless and RAFM Steels**
Austin Whitt[1]; [1]NASA - Glenn Research Center

AM REGULAR — **Oxidation Stabilization of Ti64 Powder AM Feedstocks with Atomic Layer Deposition (ALD) for Use in Large Format Binder Jet Applications**
Christopher Gump[1]; [1]Forge Nano

AM INVITED — **GRX-810 - An Oxide Dispersion Strengthened (ODS) AM Alloy with Exceptional High Temperature Creep Resistance**
Jeremy Iten[1]; [1]Elementum 3D

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ICAM 2025 TENTIVE PROGRAM AGENDA

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AM INVITED — **Unlocking Next Generation High Temperature Performance: Dispersion Strengthened Multi-Principal Alloy GRX-810**
Jonathan Pegues[1]; [1]Auburn University

AM INVITED — **Hastelloy X by Powder Bed Fusion-Laser Beam: Towards Eliminating Post Processing Heat Treatments**
Faraz Deirmina[1]; Kamran Saeidi[2]; [1]Sandvik Additive Manufacturing; [2]Siemens Energy

AM REGULAR — **Success and Challenges with Qualifying A6061-RAM2 and A7050-RAM2 Alloys for LB-PBF Additive Manufacturing of Metal Components**
Alec Saville[1]; [1]Elementum 3D

AM REGULAR — **Next-Generation Niobium Alloys via Additive Manufacturing: Microstructure, Mechanical Properties, and Alloy Design**
Shaumik Lenka[1]; Nicholas Sim[1]; [1]Alloyed

SESSION CHAIR (PM SESSION):
TBA

PM INVITED — **Advances in LPBF Processing and Post-Processing of High γ' Fraction Ni-Base Superalloys**
Shaafi Shaikh[1]; [1]EOS

PM INVITED — **Examining the Sensitivity of Titanium-6 Aluminum-4 Vanadium Witness Quality Coupons to Laser Powder Bed Fusion Process Changes**
Milad Ghayoor[1]; [1]Smith+Nephew

PM INVITED — **Leveraging Precipitation Hardening Aging Treatments on Thermo-Hydrogen Refined AM Ti-6Al-4V Microstructures**
Nicholas Derimow[1]; [1]NIST

PM REGULAR — **Mechanism-Based Design of Patient-Specific Ti64 Implants Based on In Vivo, In Vitro and In Silico Methods**
Frank Walther[1]; [1]TU Dortmund University

PM REGULAR — **Functional Graded NiTi Manufactured with Powder Bed Fusion**
Enrico Tosoratti[1]; [1]inspire - Innovation Center for Additive Manufacturing Switzerland

PM REGULAR — **Keeping Pace with AM Crystallography with High-Throughput Laser Microscopy**
Brian Hoover[1]; [1]Advanced Optical Technologies

08TH OCTOBER 2025
< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM REGULAR — **Latest Developments in HIP and High-Pressure Heat Treatment for Additive Manufacturing**
Andrew Cassese[1]; Chad Beamer[1]; [1]Quintus Technologies

AM REGULAR — **Optimizing Surface Finish in Laser Powder Bed Fusion of AlSi10Mg through Process Parameter Refinement**
Jorge Cisneros[1]; [1]Additive Industries

AM INVITED — **Development of Clean HIP Processing for AM**
Chad Beamer[1]; [1]Quintus Technologies

AM INVITED — **Performance Evaluation of High Pressure Heat Treatment (HPHT) with Uniform Rapid Quenching (URQ®) for L-PBF F357 Aluminum**
Shane Nicholson[1]; [1]Parker Aerospace

AM INVITED — **The Missing Link in LCAs - HIP Data for Sustainable AM**
James Shipley[1]; [1]Quintus Technologies

AM REGULAR — **A Chemo-Cavitation Approach to Postprocessing of Laser Powder Bed Fusion Components for Improving Surface Texture and Integrity**
Dwayne Arola[1]; [1]University of Washington

AM REGULAR — **Cavitation Abrasive Surface Finishing (CASF) for Smoothing and Peening the Outside Surfaces and Internal Passageways of Additive Manufactured Metal Components**
Daniel Sanders[1]; [1]Sugino Machine

SESSION CHAIR (PM SESSION):
TBA

PM INVITED — **Lessons Learned in Qualification of LPBF for Aviation Parts**
Brian Baughman[1]; [1]Honeywell

PM INVITED — **Leveraging Large Scale Direct Energy Deposition for the Next Generation of Large Rocket Engines**
Brandon Belardo[1]; [1]Aerojet Rocketdyne

PM INVITED — **Boeing Baseline Delta Qualification Program**
Mohammadreza Nematollahi[1]; [1]Boeing

PM REGULAR — **Exploring Additive Manufacturing in Aerospace Deployable and Compliant Systems**
Christine Gebara[1,2]; [1]NASA - Jet Propulsion Laboratory; [2]California Institute of Technology

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ICAM 2025 TENTIVE PROGRAM AGENDA

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PM **REGULAR**
Increasing Opportunities with Large-Format Metal Additive Manufacturing
Kevin Yap[1]; [1]Bright Laser Technologies

PM **INVITED**
Lessons Learned in Implementing the NASA 6030 AM Standard Qualification for Spaceflight
Alison Park[1]; [1]NASA - Langley Research Center

09TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM **REGULAR**
Mapping the AP238 Extension for Powder Bed Fusion to the Dyndrite Data Model: A Framework for Standards Validation
Dahlon Lyles[1]; [1]Dyndrite

AM **REGULAR**
Simulating Additive Manufacturing Material Extrusion Processes with Continuous Fiber-Reinforced Polymer Materials
Enrique Escobar[1]; [1]Ansys

AM **INVITED**
Advancements in LPBF of Aluminum: A Path Toward Standardization and Adoption of Aheadd® CP1
Alireza Sarraf[1]; [1]Constellium

AM **INVITED**
Integration of Metal-Coated Optical Fiber Sensors into Additive Manufactured Components
Graham Matheson[1]; [1]Oerlikon AM

AM **INVITED**
Influence of Surface Finish on Ultra High Cycle Fatigue of Heat Resistant Alloys
Ana Reis[1]; Tiago Silva[2]; [1]University of Porto; [2]INEGI - Institute of Science and Innovation in Mechanical and Industrial Engineering

AM **REGULAR**
An Investigation on the Sustainable Fabrication of ADMUSTER® C21P via Laser Powder Bed Fusion of Metals
Sankaranarayanan Seetharaman[1]; [1]A*STAR - Advanced Remanufacturing and Technology Centre

AM **REGULAR**
Influence of Modified Heat Treatment on Microstructure and Hardness of Laser Direct Energy Deposited Inconel 718 for Turbine Blades
Dhananjay Madhukar Kulkarni[1]; [1]Birla Institute of Technology and Science, Pilani

SESSION CHAIR (PM SESSION):
TBA

PM **INVITED**
Powder Cleanliness and Impact to Qualification for Aerospace Applications
Rodney Jones[1]; [1]GE Aerospace

PM **INVITED**
RTX's Consolidated Approach to IQ/OQ/PQ+MQ
Josh Norman[1]; [1]Collins Aerospace

PM **INVITED**
Extreme Value Statistics with Uncertainty to Assess Porosity Equivalence Across Additively Manufactured Parts
Sneha Prabha Narra[1]; [1]Carnegie Mellon University

PM **REGULAR**
Technological Maturity Assessment of Additive Manufacturing Technology
Eberechukwu Dim[1]; [1]Enugu State University of Science and Technology

PM **REGULAR**
Leveraging Artificial Intelligence for the Qualification of Laser Powder Bed Fusion Components using Computer Vision
Imdaadulah Adam[1]; [1]Central University of Technology, Free State

10TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM **REGULAR**
Development of Multi-Laser Powder Bed Fusion Additive Manufacturing System Control
Ho Yeung[1]; [1]NIST

AM **REGULAR**
Complex Beam Shaping for Improved Process Control in Laser Powder Bed Fusion
Thej Tumkur[1]; [1]Lawrence Livermore National Laboratory

AM **INVITED**
Beam Shaping for LPBF: Bridging Cutting-Edge Research with Real World Implications
Ankit Saharan[1]; Ulrich Kleinhans[1]; [1]EOS

AM **INVITED**
Overcoming Surface Deformation Induced by Beam Shaping in Laser-Based Powder Bed Fusion of Metals: Key Parameter Contributors and Mitigation Strategies
Robin Prudlik[1]; [1]Oerlikon AM

AM **INVITED**
On the Development of Novel Milling Tool Supports using Topology Optimization
Daniel Figueiredo[1]; [1]Palbit

AM **REGULAR**
Approach for the Qualification of New Material Combinations for Multi-Material Laser Powder Bed Fusion
Kai Gödeke[1]; [1]Nikon SLM Solutions

AM **REGULAR**
Dynamic Fluid-Assisted Continuous Multi-Material 3D Printing
Xiangfan Chen[1]; [1]Arizona State University

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ICAM 2025 TENTIVE PROGRAM AGENDA

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VALUE CHAIN

DESIGN

07TH OCT 2025 (TUE) – 08TH OCT 2025 (WED)

CO-ORGANIZERS:

Enrique Cuan-Urquizo
Tecnológico de Monterrey, Mexico

Bradley Rothernberg
nTop, USA

Andrew Thompson
Northrop Grumman, USA

David Rosen
A*STAR-IHPC / SIMTech, Singapore

Timothy Simpson
Pennsylvania State University, USA

07TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM REGULAR — **The Next Generation of Patient-Specific Orthopedic Implants: Microstructurally Tailored Hierarchical Design & Manufacturing**
Jacob Peloquin[1]; [1]North Carolina State University

AM REGULAR — **Computational and Data-Driven Design of Non-Periodic and Nature-Inspired Mechanical Metamaterials**
Pınar Acar[1]; Saltuk Yildiz[1]; Sheng Liu[1]; Zekeriya Ender Eğer[1]; Mohamed Elleithy[1]; [1]Virginia Tech

AM INVITED — **Bridging Micro, Meso and Macro Scales to Unravel Aperiodic Cellular Behavior**
Irving Ramírez-Chavez[1]; [1]Trilion Quality Systems

AM INVITED — **Design and Manufacturing of AM-Optimized Lattice Integrated Manifold (LIM)**
Ross Brown[1]; Tad Steinberg[2]; [1]Marotta Controls; [2]Siemens Energy

AM INVITED — **New Insights Into the Design of Architected Materials: Parametrizing the Constituent Elements of Mechanical Metamaterials via Bézier Curves**
Enrique Cuan-Urquizo[1]; [1]Tecnológico de Monterrey

AM INVITED — **Bending the Rules: Exploring the Potential of Origami Structures, Compliant Mechanisms, and Generally Flexible Parts Through the Lens of Design for Additive Manufacturing**
Nicholas Meisel[1]; [1]Pennsylvania State University

SESSION CHAIR (PM SESSION):
TBA

PM INVITED — **Generative Design for Additive Manufacture, Balancing Part Performance and Manufacturability**
Jonathan Hendry[1]; [1]Rolls-Royce

PM INVITED — **Text-to-Spaceship Vision: Accelerating Mission Development with AI**
Ryan McClelland[1]; [1]NASA - Goddard Space Flight Center

PM INVITED — **Bio-Inspired Ideation to Manufacturable Design: A Nature-Inspired Early-Stage Design Framework for Multifunctional Design for Additive Manufacturing**
Yaoyao Fiona Zhao[1]; [1]McGill University

PM REGULAR — **Development of a High-Precision Fluid Aperture for Oil and Gas Applications using Laser Powder Bed Fusion**
Andrew Duggan[1]; [1]Baker Hughes

PM REGULAR — **Pore-Channel AM Benchmark Coupon: A Unified Artifact for Assessing Printability of Engineered Pore Networks and Internal Channels**
Guha Manogharan[1]; [1]Pennsylvania State University

PM REGULAR — **Feature-Preserving Fluid Topology Optimization: A Novel Incremental Design Approach**
Stefano Furino[1]; [1]ToffeeX

08TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM REGULAR — **Evaluating Clearance Accuracy for 3D Printed Assembly Parts**
Nawal Aljasmi[1]; [1]Dubai Electricity & Water Authority

AM REGULAR — **Leveraging Equivalency for Affordable Additive Manufacturing Process Qualification**
Colin Lynch[1, 2]; [1]TIS Consulting Group; [2]Arizona State University

AM INVITED — **Tailoring the Mechanical Properties of 3D Printed Food**
Viridiana Tejada-Ortigoza[1]; [1]Tecnológico de Monterrey

AM INVITED — **Utilization of Powder Bed Fusion Technology to Manufacture Die Heads with Conformal Cooling Channels for Extrusion of Plant-Based Meat Analogues**
Fred Liza[1]; Jose Bernardo Padaca III[1]; [1]DOST - Metals Industry Research and Development Center (AMCen)

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AM **INVITED**
Functional Single-Pass Thin Wall Structures
Sammy Passell[1]; [1]AddUp

AM **REGULAR**
DFAM Considerations Needed to Rescue the Constraints of Support-Less Printing
Mathieu Brochu[1]; [1]McGill University

AM **REGULAR**
General Shape Memory Modeling and Simulation using Isogeometric Analysis
David Rosen[1]; [1]A*STAR - IHPC / SIMTech

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ICAM 2025 TENTIVE PROGRAM AGENDA

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VALUE CHAIN

DIRECTED ENERGY DEPOSITION

07TH OCT 2025 (TUE) – 10TH OCT 2025 (FRI)

CO-ORGANIZERS:

Frank Brückner
Fraunhofer IWS, Germany

Tyson Gregory
Nidec Machine Tool America, USA

Evan Handler
Naval Surface Warfare Center - Carderock Division / America Makes, USA

Misael Pimentel
National Manufacturing Institute Scotland, United Kingdom

Paul Gradl
NASA - Marshall Space Flight Center (MSFC), USA

Jhonattan Gutjahr
TWI, United Kingdom

Vittoria Laghi
University of Bologna, Italy

Baily Thomas
Boeing, USA

Arkadi Zikin
Oerlikon, Switzerland

07TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (PM SESSION):
TBA

PM **INVITED**
Inside the World's Largest Laser DED Machine: Design, Architecture, and Very-Large-Format Applications using Powder and Wire in an Argon Filled Chamber
Ashok Varma[1]; [1]iAM3D

PM **INVITED**
From Feasibility to Full-Scale: Advancing Maritime Decarbonisation through Large-Format Additive Manufacturing
Misael Pimentel[1]; [1]National Manufacturing Institute Scotland

PM **INVITED**
DED-Arc vs CNC-Milled Manufacturing to Reduce the Environmental Impact of Complex-Shaped Steel Joints
Vittoria Laghi[1]; [1]University of Bologna

PM **REGULAR**
AI-Driven Control of Contact Tip to Work Distance for Dot-by-Dot Aluminum Alloy Deposition in WAAM
Barbara Previtali[1]; Luca Tornaquindici[1]; [1]Politecnico di Milano

PM **REGULAR**
Advancements in Multi-Directional Functionally Graded Materials (FGMs) using Directed Energy Deposition (DED)
Melanie Lang[1]; [1]FormAlloy Technologies

PM **REGULAR**
Applying Deep Learning to Non-Destructive Evaluation Methodologies for Quality Control and Process Optimization in Wire Arc Directed Energy Deposition (WA-DED)
Robert Zando[1]; [1]Northeastern University

PM **REGULAR**
High-Temperature Properties of CSEF Steels Produced through Wire-Arc Direct Energy Deposition
Yukinori Yamamoto[1]; [1]Oak Ridge National Laboratory

08TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM **REGULAR**
Next-Generation Oil & Gas Components: Multi-Functional Bimetallic SS316L-Inconel 625 Structures by Wire-Laser DED for Superior Pitting Resistance
Marwan Khraisheh[1]; [1]Hamad Bin Khalifa University

AM **REGULAR**
Deep Cryogenic Treatment of AISI H11 Tool Steel Manufactured by Wire Laser Metal Deposition
Till Tetzlaff[1]; [1]Bundeswehr Research Institute for Materials, Fuels and Lubricants

AM **INVITED**
Scaling Up Wire Arc Additive Manufacturing (WAAM): Practical Considerations for Industrial Implementation
Louise Slade[1]; [1]DEEP Manufacturing

AM **INVITED**
Laser-Based DED and LFAM in Europe: Industrialization, Applications, and Strategic Outlook
Arkadi Zikin[1]; [1]Oerlikon

AM **INVITED**
Accelerating Fleet Readiness: Transforming Shipbuilding with Wire-Arc AM
Ethan Clare[1]; [1]The Barnes Global Advisors

AM **INVITED**
Enhancing Reliability for Laser-DED Processes
Johannes Finger[1]; [1]Makino Asia - International Innovation Centre AM

AM **REGULAR**
Allowables Generation for Ti-6Al-4V via the L-DED Process
Baily Thomas[1]; [1]Boeing

AM **INVITED**
Accelerating DED Industrialisation through Collaborative Initiatives
Josh Barras[1]; [1]ASTM International

SESSION CHAIR (PM SESSION):
TBA

PM **INVITED**
From Waste to Value: Powder Reuse in Large-Scale Laser-DED
Jhonattan Gutjahr[1]; [1]TWI

PM **INVITED**
Towards Making Directed Energy Deposition a Decathlete
Jason Jones[1]; [1]Hybrid Manufacturing Technologies

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ICAM 2025 TENTIVE PROGRAM AGENDA

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PM **INVITED**
High-Speed Directed Energy Deposition for Aerospace: Enabling Ni- and Ti-Based Alloys for Rocket Propulsion Components
Simone Maffia[1]; Tobias Stittgen[1]; [1]Ponticon

PM **REGULAR**
Bridging the Gap between LPBF and Traditional DED using Nikon's Next Generation Scanning-Based DED
Brent Stucker[1]; [1]Nikon SLM Solutions

PM **REGULAR**
Feedback-Controlled Directed Energy Deposition - Arc for Full-Scale Architectural Members: Process Adaptation and Bending Performance Validation with Focus on Aluminum Applications
Yuka Yamagata[1]; [1]Shimizu Corporation

PM **REGULAR**
Innovative Solutions for Aluminum, Titanium, and Refractory Component Manufacturing via Directed Energy Deposition (DED)
Melanie Lang[1]; [1]FormAlloy Technologies

PM **REGULAR**
Laser Metal Deposition with Wire (LMD-w) Process and Qualification for Primary Aerostructures
Leon Hill[1]; [1]GKN Aerospace

PM **REGULAR**
Investigating the Accuracy, Repeatability, and Reproducibility of A Synchronised Multi-Robot Wire-Arc Additive Manufacturing (WAAM) System for Large Format Additive Manufacturing (LF-AM)
Marcus Ng[1]; [1]DEEP Manufacturing

09TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM **REGULAR**
Large-Format Copper Printing and Simulation Studies using Laser Blown Powder Directed Energy Deposition (BP-DED) Technique
Rachel Mancuso[1]; [1]DM3D Technology

AM **REGULAR**
Thin-Wall Internal Microchannels and Surface Enhancements for Rocket Nozzles using Laser Powder Directed Energy Deposition
Paul Gradl[1]; [1]NASA - Marshall Space Flight Center

AM **INVITED**
Planning in the Embedding Space: A New Paradigm for AI-Driven Monitoring and Control in Directed Energy Deposition
João Sousa[1]; [1]University of Porto

AM **INVITED**
Advances in Extreme High-Speed Laser Material Deposition (EHLA)
Thomas Schopphoven[1]; [1]Fraunhofer ILT

AM **INVITED**
Laser Powder Directed Energy Deposition (LP-DED): Aerospace Manufacturing Ready
Tyler Blumenthal[1]; [1]RPM Innovations

AM **INVITED**
Latest Developments in DED-Arc: Large Scale Parts for the Energy Industry
Filippo Gilardi[1]; Thomas Van Glabeke[1]; [1]MX3D

AM **REGULAR**
Enhancing Laser-Wire DED for High-Value Component Remanufacture
Ryan Devine[1]; [1]National Manufacturing Institute Scotland

SESSION CHAIR (PM SESSION):
TBA

PM **INVITED**
How Process Monitoring Drives Innovation in WAAM at Guaranteed
Joachim Antonissen[1]; [1]Guaranteed

PM **INVITED**
Rapid Qualification of Additively Manufactured 17-4PH Stainless Steel for Ground Vehicle Applications
Brandon Saathoff[1]; [1]Wichita State University - National Institute for Aviation Research

PM **INVITED**
Process Independent Material Microstructure and Property Investigation by using Fundamental AM Parameters in Wire-DED
Stewart Williams[1, 2]; [1]WAAM3D; [2]Cranfield University

PM **REGULAR**
Are Metal LBPF Parts Overpriced? Cost Analysis of DED vs M-LBPF Parts Exceeding 300mm
Tyson Gregory[1]; [1]Nidec Machine Tool America

PM **REGULAR**
Process Planning for Hybrid Manufacturing using Wire Based Directed Energy Deposition and Machining
Takeyuki Abe[1]; [1]Saitama University

PM **REGULAR**
Tailoring Microstructures in WAAM Stainless Steels through Temperature-Controlled Hammer Peening
Shramana Ghosh[1]; [1]Oak Ridge National Laboratory

PM **REGULAR**
Numerical Investigation of Melt-Pool Thermal Signature in Directed Energy Deposition using X-FEM Simulations
Zoé Jardon[1]; [1]Vrije Universiteit Brussel (VUB)

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10TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM **REGULAR**	**Mechanical Testing of the Repair of Narrow and Wide Damage of Hot-Wire Laser DED H13 Steel using Two Print Directions** Holly Martin[1]; [1]Youngstown State University
AM **REGULAR**	**What Makes a "Good" Wire-DED Part?** Moriah Rackliffe[1]; [1]Norsk Titanium
AM **INVITED**	**Advancing Process Planning Workflow Automation for Multi-Axis Directed Energy Deposition Additive Manufacturing: Decomposition Strategies** Brady Sawyer[1]; [1]Pennsylvania State University - Applied Research Laboratory
AM **INVITED**	**Real-Time In Situ Monitoring and Closed-Loop Feedback Control for Wire Arc DED with ROS 2** Matthew Priddy[1]; [1]Mississippi State University
AM **INVITED**	**Unlocking DED Productivity through Intelligent In-Situ Monitoring and Control** Sam Pratt[1]; [1]Virginia Tech
AM **INVITED**	**The Variety of the Technology Solutions and Manufacturing Efficiency Provided by xBeam 3D Metal Printing** Dmytro Kovalchuk[1, 2]; [1]xBeam 3D; [2]NVO Chervona Hvilya
AM **INVITED**	**Convergent Manufacturing utilizing Directed Energy Deposition Processes for Aerospace and Naval Applications** J. Logan McNeil[1]; [1]EWI
AM **REGULAR**	**Path-Based Geometry Modeling Tool for Additive Applications: A G-Code Driven Advancement over Design-Based Modeling** Haoliang Yu[1]; [1]Ansys

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VALUE CHAIN

ENVIRONMENTAL AND CORROSION

06TH OCT 2025 (MON)

CO-ORGANIZERS:

Tony Fry
National Physical Laboratory, United Kingdom

Robert Kelly
University of Virginia, USA

Michael Melia
Sandia National Laboratories, USA

Matt Sanders
Stress Engineering Services, USA

Nicole Tailleart
U.S. Naval Research Laboratory, USA

Gary Whelan
QuesTek Innovations, USA

06TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM REGULAR — **Hydrogen Environment-Assisted Cracking Behavior of Binder Jet Printed 17-4PH Stainless Steels in Marine Environments**
Zachary Harris[1]; [1]University of Pittsburgh

AM REGULAR — **The Influence of LPBF Processing on the Corrosion of Cu-30Ni in Simulated Seawater Environments**
Robert Kelly[1]; [1]University of Virginia

AM INVITED — **Effect of Exposure Time on the Electrochemical Corrosion Response on Wire-Arc Additively Manufactured (WAAM) Type 316LSi Stainless Steel in Simulated Seawater**
Alan Martinez[1]; [1]Stress Engineering Services

AM INVITED — **The Case for Leveraging Advanced Materials Modeling Tools in Failure Analysis**
Theodore Zirkle[1]; [1]Exponent

AM INVITED — **Using ICME to Address Microstructure-Sensitive Corrosion Fatigue**
Gary Whelan[1]; [1]QuesTek Innovations

AM INVITED — **Screening the Hydrogen Embrittlement Behavior of Several L-PBF Ni-Based Superalloys**
Chantal Sudbrack[1]; [1]National Energy Technology Laboratory

SESSION CHAIR (PM SESSION):
TBA

PM INVITED — **The Role of Additive Manufactured Materials in Environment Protection and Corrosion Resistance Based on High Temperature Behavior in Highly Oxidizing Atmospheres**
Tomasz Dudziak[1]; [1]Łukasiewicz Research Network - Krakow Institute of Technology

PM INVITED — **The Effect of Applied Stress and Build Orientation on the Stress Corrosion Cracking of Type 316LSi Stainless Steel Produced by Wire Arc Additive Manufacturing (WAAM) in Simulated Seawater using Four-Point Bend Tests**
Kevin Renteria[1]; [1]Stress Engineering Services

PM REGULAR — **Enhanced Corrosion Resistance and Adhesion Strength through Nanosecond Laser Treatment of Aluminum Alloy (AlSi10Mg)**
Jeongwoo Lee[1]; [1]TRUMPF

PM REGULAR — **Corrosion Testing of Hot-Wire Laser DED H13 Steel using Two Print Orientation and Three Print Directions**
Holly Martin[1]; [1]Youngstown State University

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VALUE CHAIN

FATIGUE AND FRACTURE

08TH OCT 2025 (WED) – 10TH OCT 2025 (FRI)

CO-ORGANIZERS:

Stefano Beretta
Politecnico di Milano, Italy

Thomas Niendorf
University of Kassel, Germany

Jutima Simsiriwong
University of North Florida, USA

Zachary Whitman
Boeing Commercial Airplanes, USA

Armando Coro
ITP Aero, Spain

Ravi Shahani
Constellium, France

Riccardo Toninato
Enovis, Italy

08TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM REGULAR — **Process-Structure-Performance in Wire-Arc Additive Manufacturing of Inconel 718**
Ahmad Nourian[1]; [1]Northeastern University

AM REGULAR — **Synergistic Effects of Surface Roughness, Porosity, and Surface Treatments on the Mechanical Performance**
Jonathan Pegues[1]; [1]Auburn University

AM INVITED — **On the Structural Integrity of Additively Manufactured Alloys with Low Coefficient of Thermal Expansion**
Thomas Wegener[1]; [1]University of Kassel

AM INVITED — **Fatigue Characterization of Plasma Atomized Titanium Ti-6Al-4V Produced by Laser Powder Bed Fusion Process**
Mahdi Habibnejad[1]; [1]GE Aerospace - AP&C

AM INVITED — **Fatigue Design Limits for AM Ti-6Al-4V using a Kitagawa Diagram Based Analysis and Specimens with Artificial Defects**
Sushant Jha[1]; [1]University of Dayton Research Institute

AM INVITED — **Accelerated Procedure for Assessing the Stress Intensity Factor Threshold of AM Parts with the Ultrasonic Fatigue Testing Machine: Feasibility and Application to the AlSi10Mg Alloy**
Andrea Tridello[1]; [1]Politecnico di Torino

AM INVITED — **Exploring the Influence of Various Surface Treatments on the Surface Texture, Microstructure, and Fatigue Behavior of Nickel-Based Superalloys**
Erfan Maleki[1]; [1]Auburn University - National Center for Additive Manufacturing Excellence

SESSION CHAIR (PM SESSION):
TBA

PM INVITED — **Impact of Surface and Bulk Defects on Fatigue Behaviour of Additively Manufactured Ti-6Al-4V Alloys: A Unified Design Approach**
Enrico Salvati[1]; [1]University of Udine

PM INVITED — **A Full Probabilistic Fracture Mechanics-Based Model for the Fatigue Assessment of Additively Manufactured Metallic Materials**
Mauro Madia[1]; [1]Bundesanstalt für Materialforschung und -prüfung (BAM)

PM INVITED — **Effects of Process-Induced Microstructure with Defects on Fatigue Damage Tolerance of Additively Manufactured Metals**
Frank Walther[1]; [1]TU Dortmund University

PM REGULAR — **Prediction of Fatigue Life Variability in Additively Manufactured Parts with As-Built Surface Roughness**
Leland Shimizu[1]; [1]The Aerospace Corporation

PM REGULAR — **Experimental and Probabilistic Investigation of Small Crack Growth in Additively Manufactured Materials under Multiaxial Stress States**
Reza Molaei[1]; [1]Auburn University - National Center for Additive Manufacturing Excellence

PM REGULAR — **Comprehensive Defect-Driven Evaluation of Mechanical, Thermal, and Corrosive Impacts on the Structural Integrity and Performance of Light Metal Components**
Alexander Koch[1]; [1]TU Dortmund University

09TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM REGULAR — **Multiaxial Fatigue Behavior of Additively Manufactured TPMS Metallic Metamaterials: Experiments and Modeling**
Reza Molaei[1]; [1]Auburn University - National Center for Additive Manufacturing Excellence

AM REGULAR — **Accelerated Fatigue Testing of Aluminum A5083 RAM5 and Comparison Against Standard Results**
Onome Scott-Emuakpor[1]; [1]Hyphen Innovations

AM INVITED — **NIST AM Benchmarks 2025: Predicting Fatigue Performance in Rotating Bending Tests of PBF-L Ti-6Al-4V**
Newell Moser[1]; [1]NIST

AM INVITED — **On the Role of Microstructure in Fatigue and Fracture of Alloys Processed by AM**
Thomas Niendorf[1]; [1]University of Kassel

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ICAM 2025 TENTIVE PROGRAM AGENDA

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AM INVITED — **Considerations for PBF-LB/M Superalloys under Time-Dependent Loading: Influence of Build Orientation and Design on Long-Term Creep Performance**
Karl Michael Krämer[1]; [1]Technical University of Darmstadt - Additive Manufacturing Center

AM INVITED — **Fatigue Behavior of Additively Manufactured Notched Metallic Members**
Shuai Shao[1]; [1]Auburn University

AM INVITED — **Effect of Powder Reuse on the Fatigue Performance of L-PBF Manufactured Ti-6Al-4V Alloy**
Ümit Aytar[1]; [1]Turkish Aerospace

SESSION CHAIR (PM SESSION):
TBA

PM INVITED — **Beyond Fatigue Tests: Why Statistical Fractography Provides a Faster and Deeper Characterization of the Fatigue Properties of Metallic Alloys**
Laurent Ponson[1]; [1]Tortoise

PM INVITED — **Resonance Fatigue Testing of Additively Manufactured Lattice Structures: A Novel Approach to Fatigue Endurance Assessment**
Armando Coro[1]; [1]ITP Aero

PM INVITED — **Structural Integrity of AM Parts - Overview of Current Research Activities at GE Aerospace**
Simone Romano[1]; [1]Avio Aero

PM INVITED — **Relevant Damage Mechanisms for the Use of PBF-LB Materials in Turbomachinery**
Christoph Haberland[1]; [1]Siemens Energy

PM INVITED — **Volumetric Defect Criticality in Fatigue of Laser Powder Bed Fused Ti-6Al-4V**
Sajith Soman[1]; [1]Auburn University

10TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM REGULAR — **Improved Fatigue Performance for Aluminum L-PBF: Advantages of an Al-Zr-Fe Alloy**
Stefano Beretta[1, 2]; [1]Politecnico di Milano; [2]Auburn University

AM REGULAR — **Characterization of High Power Direct Energy Deposition As-Produced Surface Fatigue Properties**
Mela Fung[1]; [1]Aerojet Rocketdyne

AM INVITED — **Towards Fatigue-Based Qualification of AM Parts via Simulation**
Alaa Olleak[1]; Linqi Zhuang[1]; [1]Ansys

AM INVITED — **Calibration of Anomaly Exceedance Curves for Probabilistic Damage Tolerance Analyses of Additively Manufactured AlSi10Mg**
Erin DeCarlo[1]; [1]Southwest Research Institute

AM INVITED — **Damage Tolerance and Inspection Considerations for Certification of Metal AM Parts in Aviation**
Michael Gorelik[1]; [1]Federal Aviation Administration

AM INVITED — **Crack Growth and Initiation Behavior of Laser Powder Bed Fusion Ti-6Al-4V**
Paul Wilson[1]; [1]Boeing

AM INVITED — **Predicting Fatigue Performance of Strut-Based Lattices: A Cost-Effective Approach Combining Miniaturized Specimen Modeling and ASED Analysis**
Simone Murchio[1]; [1]Sapienza University of Rome

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ICAM 2025 TENTIVE PROGRAM AGENDA

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VALUE CHAIN

FEEDSTOCK CHARACTERIZATION, SPECIFICATION, AND REUSE

06TH OCT 2025 (MON) – 08TH OCT 2025 (WED)

CO-ORGANIZERS:

Ronald Aman
Amaero, USA

Martin Dopler
Metalpine, Austria

Amir Nobari
Tekna, Canada

Paul Prichard
Oak Ridge National Laboratory, USA

Javier Arreguin
GE Aerospace - AP&C, Canada

Jose Muñiz
Equispheres, Canada

Roger Pelletier
National Research Council Canada, Canada

06TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM REGULAR — **The Urge to Develop New Standards for Powder Feedstock in AM**
Filip Francqui[1]; [1]Granutools

AM REGULAR — **A Note on Using a Rotating Drum Powder Rheometer for Characterizing Coarse and Fine Powders of 17-4 PH Stainless-Steel Alloy**
Vipin Tondare[1]; [1]NIST

AM INVITED — **Yes, Powders Really Matter!**
Mathieu Brochu[1]; [1]McGill University

AM INVITED — **Investigating the Effect of Humidity and Electrostatic Charging on Powder Spreadability**
Anatolie Timercan[1]; [1]National Research Council Canada

AM INVITED — **Spreadability of Metal Powders: Combining Powder Characterization and DEM Simulations**
Filip Francqui[1]; [1]Granutools

AM INVITED — **Characterizing Spreading with the Powder Spreading Testbed (PST) at NIST Gaithersburg**
Aniruddha Das[1]; [1]NIST

SESSION CHAIR (PM SESSION):
TBA

PM INVITED — **Powder Handling for Additive Manufacturing in Remote Environments**
Tobias Rønneberg[1]; [1]Fieldmade

PM INVITED — **Characterization and Testing of Metal Powders**
Ross Cunningham[1]; [1]NSL Analytical Services

PM INVITED — **Environmental, Economical and Supply Chain Sustainability of High Performance Critical Metal Powders Produced from Domestic Recycled Feedstock**
Sunil Badwe[1]; [1]Continuum Powders

PM REGULAR — **From Waste to Innovation: New Metal Alloys via Powder2Powder Ultrasonic Atomization**
Tomasz Choma[1]; [1]Warsaw University of Technology; [1]AMAZEMET

PM REGULAR — **Evaluation of the Reusability of CoCrMo Powder in Laser Powder Bed Fusion Process**
Milad Ghayoor[1]; [1]Smith+Nephew

07TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM REGULAR — **Investigation of the Effect of Oxygen Homogeneity on the Processability of Ti64 - Impact of Addition of Out of Spec Powders**
Mahdi Habibnejad[1]; [1]GE Aerospace - AP&C

AM REGULAR — **The Influence of Powder Particle Size Distributions on Surface Quality, Printing Quality, and Mechanical Properties of Hastelloy X Produced by Laser Powder Bed Fusion**
Alber Sadek[1]; [1]EWI

AM INVITED — **Investigations into the Effects of Powder Age and Mixing on the Performance of LPBF Ti6Al4V Medical Devices**
Ryan Kircher[1]; [1]rms Company

AM INVITED — **Indefinite Use: Reconditioning of AlSi10Mg via Lot Blending**
Shawn Leonard[1]; Brant Stoner[1]; [1]Northrop Grumman Mission Systems

AM INVITED — **Investigating the Effects of Powder Reuse on Ti-6Al-4V in Laser Powder Bed Fusion**
Sankaranarayanan Seetharaman[1]; [1]A*STAR - Advanced Remanufacturing and Technology Centre

AM INVITED — **Developing Faster Methods for Testing Multi-Element Composition of Feedstock Powder**
Ellen Williams[1]; [1]Exum Instruments

AM INVITED — **Quality Assurance of Metal Powder Additive Manufactured Parts through Probabilistic Knowledge Graphical Models**
Zhaohui Geng[1]; Jianzhi (James) Li[2]; [1]Ohio University; [2]University of Texas Rio Grande Valley

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SESSION CHAIR (PM SESSION):
TBA

PM **INVITED**	**The Effect of Nitrogen Content in Titanium Powder on AM Properties** Eric Bono[1]; [1]Amaero Advanced Materials & Manufacturing
PM **INVITED**	**Mechanical Properties of Ti-6Al-4V LPBF Parts: The Role of Defects in Thin Sections** Javier Arreguin[1]; [1]GE Aerospace - AP&C
PM **INVITED**	**Breaking Barriers in Laser-Powder Bed Fusion: Non-Explosible AlSi10Mg Powder for Safer Additive Manufacturing** Andrei-Alexandru Popa[1]; [1]University of Southern Denmark
PM **REGULAR**	**Time Scales in Gas Atomization Processes** Martin Dopler[1]; [1]Metalpine
PM **REGULAR**	**Thermally Fingerprinting Metal Additive Manufacturing Powder** Scott Schiffres[1]; [1]Binghamton University

08TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (PM SESSION):
TBA

PM **INVITED**	**Accelerated Alloy Design and Adaptation for Additive Manufacturing** Sila Atabay[1]; [1]Lawrence Livermore National Laboratory
PM **INVITED**	**Copper Alloys for Additive Manufacturing Applications** Martin Dopler[1]; [1]Metalpine
PM **INVITED**	**Use of Red and Green Laser for the Powder Bed Fusion Of CuCrZr Alloy** Elisa Padovano[1]; [1]Politecnico di Torino
PM **INVITED**	**Mechanical and Functional Properties of "Reactive" Laser Powder Bed Fusion of Borated Aluminum Alloy 6061** Jason Ting[1]; [1]Elementum 3D

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VALUE CHAIN

IN-SITU MONITORING AND IN-PROCESS CONTROL

06TH OCT 2025 (MON) – 10TH OCT 2025 (FRI)

CO-ORGANIZERS:

Bianca Maria Colosimo
Politecnico di Milano, Italy

Brian Fisher
RTX Technology Research Center, USA

Thomas Jones
Rolls-Royce Submarines, United Kingdom

Luke Scime
Oak Ridge National Laboratory, USA

Alaa Elwany
Texas A&M University, USA

Michael Heiden
Sandia National Laboratories, USA

Andrey Molotnikov
RMIT University - RMIT Centre for Additive Manufacturing / Additive Assurance, Australia

06TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM REGULAR — **Multimodal Sensor Fusion for Real-Time Standoff Height Monitoring in LP-DED System**
Vladimir Orlyanchik[1]; [1]Oak Ridge National Laboratory

AM REGULAR — **Comparative Study of Machine Learning Techniques for Eddy Current Testing Applied for Defect Detection in Powder Bed Fusion Laser Beam for Metals (PBF-LB/M)**
Enrico Tosoratti[1]; Daniel Werner[1]; [1]inspire - Innovation Center for Additive Manufacturing Switzerland

AM INVITED — **In-Situ, Layer-by-Layer, LPBF Monitoring with High Resolution Eddy Current Arrays**
Andrew Washabaugh[1]; [1]JENTEK Sensors

AM INVITED — **Don't Gamble on Your Build - LPBF In-Process Monitoring for Large-Format Machines**
Philip Sperling[1]; [1]Interspectral

AM INVITED — **Validation of Thermal Models through In-Situ Monitoring and Surrogate Modeling for Laser-Wire DED**
Jack Canaday[1]; [1]Naval Surface Warfare Center - Carderock Division

AM REGULAR — **In-Situ Melt Pool Characterization via Thermal Imaging for Defect Detection in Directed Energy Deposition using Vision Transformers**
James Craig[1]; [1]Stratonics

AM REGULAR — **Integrated Process Monitoring to Enhance Beam Shaping for High-Speed DED**
Alex Kingsbury[1]; [1]nLIGHT

AM REGULAR — **Smart In-Situ Quality Monitoring of LPBF-Manufactured Ti6Al4V via Eddy Current Sensing and Machine Learning**
Haifa Sallem[1]; [1]University of Applied Sciences and Arts Western Switzerland

SESSION CHAIR (PM SESSION):
TBA

PM INVITED — **A Comparison of Detection Capability of Meltpool and Thermal Imaging Based In-Process Monitoring Systems for True LPBF Failure Modes**
Thomas Jones[1]; [1]Rolls-Royce Submarines

PM INVITED — **Detection Technology for Microscopic Inner Defects by Light Emission Monitoring in PBF-AM**
Ryuichi Narita[1]; [1]Mitsubishi Heavy Industries

PM INVITED — **Electron Optical Imaging: A Versatile Process Monitoring Tool in Electron Powder Bed Fusion**
Carolin Körner[1]; [1]Friedrich-Alexander University of Erlangen-Nuremberg

PM REGULAR — **Calibration of Down Beam Melt Pool Monitoring Sensors**
Rachel Emerick[1]; Jake Raplee[1]; [1]GE Aerospace

PM REGULAR — **Optimizing Data Quality of Spatially Reconstructed On-Axis Pyrometry Data Acquired During Laser-Powder Bed Fusion**
Graham Spicer[1]; [1]Johns Hopkins University - Applied Physics Laboratory

PM REGULAR — **In-Situ High Resolution Imaging for Geometric Quality Control in LPBF AM**
Ziyad Smoqi[1]; [1]GE Aerospace

07TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM REGULAR — **Application of Eddy Current Sensors to In Situ Monitoring of LPBF Process**
Bernard Revaz[1]; [1]AMiquam

AM REGULAR — **Porosity-ScanNet: A New Deep-Learning Method for Detecting Contamination-Induced Porosity in LPBF via In-Situ Monitoring and High-Resolution Scanning**
Matteo Bugatti[1]; [1]Politecnico di Milano

AM INVITED — **Porosity Detection in Laser Powder Bed Fusion using High Resolution Long-Exposure In-Process Monitoring Technique**
Andrey Molotnikov [1, 2]; [1]RMIT University - RMIT Centre for Additive Manufacturing; [2]Additive Assurance

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ICAM 2025 TENTIVE PROGRAM AGENDA

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AM **INVITED** — **Multisensor Fusion for Robust Defect and Anomaly Detection in LPBF**
Thomas Spears[1]; [1]Addiguru

AM **INVITED** — **Leveraging Multimodal On-Machine Inspection for Identifying Anomalies in Laser Powder Bed Fusion Process**
Sanam Gorgannejad[1]; [1]Lawrence Livermore National Laboratory

AM **INVITED** — **From Signal to Strength: Investigating ISPM for Mechanical Property Prediction**
Yash Parikh[1]; [1]EOS

AM **REGULAR** — **Sensor Optimization and Signal Prediction via Process Monitoring Simulation Tool for Laser Metal Powder Bed Fusion Additive Manufacturing**
Jared Blecher[1]; [1]ASTRO America

AM **INVITED** — **Using Swelling for In Situ Flaw Detection in Laser Powder Bed Fusion Additive Manufacturing**
Christine Cummings[1]; [1]Oak Ridge National Laboratory

08TH OCTOBER 2025
< VENUE: TBA >

SESSION CHAIR (PM SESSION):
TBA

PM **INVITED** — **Lessons Learned: Seven Years of Real-Time Powder Bed Imaging, Data Processing, and Camera Calibration**
Luke Scime[1]; [1]Oak Ridge National Laboratory

PM **INVITED** — **Laser Powder Bed Fusion Sensor-to-Quality Framework: A Demonstration of Sensors, Software Tools, and Analytics for Achieving Data-Driven Parameter Development and Process Drift Detection at Scale**
Solomon Duning[1]; [1]University of Dayton Research Institute

PM **INVITED** — **Blowin' In The Wind: How Shield Gas Flow, Scan Path and Plume Interaction Influence Energy Delivery in Laser Powder Bed Fusion**
Paul Hooper[1]; [1]Imperial College London

PM **INVITED** — **Process Mapping of Melt Pool Plume Behavior in Laser Powder Bed Fusion**
Jack Beuth[1]; [1]Carnegie Mellon University

PM **REGULAR** — **Practical High-Speed Spatter Tracking for Material Properties Prediction in LPBF**
John Middendorf[1]; [1]Ohio State University

PM **REGULAR** — **Benchmarking Experiments for Spatter Detection and Modeling**
Jordan Weaver[1]; [1]NIST

PM **REGULAR** — **In Situ Measurement of Spatter Formation in L-PBF**
Niall O'Dowd[1]; [1]Phase3D

09TH OCTOBER 2025
< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM **REGULAR** — **In Situ Process Monitoring for Defect Control in Metal Additive Manufacturing**
Manyalibo Matthews[1]; [1]Lawrence Livermore National Laboratory

AM **REGULAR** — **A Novel In-Situ Monitoring Approach for Metal AM: Correlating Process Phenomena with Part Quality via a Synchronized Dual Monitoring System**
Behrang Poorganji[1]; [1]Nikon AM

AM **INVITED** — **Scanit: A Novel Solution to Unlock In-Situ Qualification in Laser Powder Bed Fusion**
Matteo Bugatti[1]; [1]Politecnico di Milano

AM **INVITED** — **Development and Use of Lightweight Multi-Modal Process Monitoring in LPBF**
Ben Brown[1]; [1]Kansas City National Security Campus

AM **INVITED** — **In Situ Monitoring at Multiple Scales: Role of Powder Particle Velocity and Shield Gas Flow in Laser Powder Blown Directed Energy Deposition**
Samantha Webster[1]; [1]Colorado School of Mines

AM **INVITED** — **RAMPSeg: A Robust Calibration-Free Image Segmentation Method for Reliable Melt Pool Analysis in Laser Powder Bed Fusion**
Mohammed Shafae[1]; Nazmul Hasan[1]; [1]University of Arizona

AM **REGULAR** — **The Case for Data: Utilizing In-Situ and Post-Build Data for Defect Reduction, Repeatability, and Qualification**
Jeffrey Riemann[1]; [1]FormAlloy Technologies

AM **REGULAR** — **Real-Time Monitoring for Additive Manufacturing: How Build Monitoring Allows to Ensure Quality, Cut Costs, and Save Time**
Hubert Kerschbaum[1]; [1]Oqton

SESSION CHAIR (PM SESSION):
TBA

PM **INVITED** — **Redefining Aerospace L-PBF with In-Situ Monitoring - Driving Quality & Cost Efficiency**
Sebastian Rott[1]; [1]GKN Aerospace

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ICAM 2025 TENTIVE PROGRAM AGENDA

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PM **INVITED**
In-Situ Process Monitoring (ISPM): A Breakthrough in Aerospace AM
Fernando Lartategui Atela[1]; [1]ITP Aero

PM **INVITED**
Inspecting the Uninspectable: AI-Powered Quality Assurance for Complex AM Parts
Sebastian Larsen[1]; [1]Nexus Additive

PM **REGULAR**
Part Agnostic Machine Learning Melt Pool Emission Model Based Statistical Process Control of LPBF AM
Rachel Emerick[1]; Scott Gold[1]; [1]GE Aerospace

PM **REGULAR**
Combining Machine Learning with Physics-Based Models for Enhanced Feedforward Control of Meltpool Area in LPBF
Chinedum Okwudire[1]; [1]University of Michigan

PM **REGULAR**
Toward Memory Efficient, High-Speed, In-Process Monitoring of Electron Beam Additive Manufacturing using High Dynamic Range, Neuromorphic Event Based Imagers
David Mascarenas[1]; [1]Los Alamos National Laboratory

PM **REGULAR**
Improving Multimaterial Laser Powder Bed Fusion Additive Manufacturing via In-Situ Monitoring
Stefania Cacace[1]; [1]Politecnico di Milano

10TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM **REGULAR**
ASME's Initiatives Standardizing Advanced Manufacturing Methodologies and Practices
Justin Cassamassino[1]; [1]ASME

AM **REGULAR**
Model Predictive Control for Additive Manufacturing Based on Advanced Process Monitoring
Yan Lu[1]; [1]NIST

AM **INVITED**
Demonstration of COTS L-PBF Feedback Loop Controls
James Eliou[1]; [1]Naval Nuclear Laboratory

AM **INVITED**
Multi-Scale Feedback Control Strategies for Thermal Stabilization in Laser Powder Bed Fusion of 316L
Markus Bambach[1]; Michael Tucker[1]; [1]ETH Zürich

AM **INVITED**
A Real-Time Simulation Twin for Model Reference Adaptive Control in Directed Energy Deposition
James Haley[1]; [1]Oak Ridge National Laboratory

AM **INVITED**
Towards Real-Time Control of Complex Metal AM Processes
Steven Storck[1]; [1]Johns Hopkins University - Applied Physics Laboratory

AM **INVITED**
Producing High-Quality Structure-Critical Parts using the Laser Powder Bed Fusion Process, High-Resolution Melt Pool Monitoring Anywhere on the Build Platform, and Near-Real Time Process Control
Anil Chaudhary[1]; [1]Applied Optimization

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ICAM 2025 TENTIVE PROGRAM AGENDA

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VALUE CHAIN

MICROSTRUCTURAL AND MECHANICAL BEHAVIOR

06TH OCT 2025 (MON) – 10TH OCT 2025 (FRI)

CO-ORGANIZERS:

Allison Beese
Pennsylvania State University, USA

Jim Dobbs
Boeing, USA

Jonathan Pegues
Auburn University, USA

Calvin Stewart
Ohio State University, USA

Jimmy Campbell
Plastometrex, United Kingdom

Nik Hrabe
NIST, USA

Swee Leong Sing
National University of Singapore, Singapore

06TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM REGULAR — **Optimizing Thermal Management in LPBF with Ti-6Al-4V: Impact of Heat Accumulation on Microstructure within the Global Temperature Field Range**
Johannes Rottler[1]; [1]University of the Bundeswehr Munich

AM REGULAR — **Mechanical and Surface Properties of Ti-6Al-4V Manufactured via Accelerated L-PBF: Effect of Layer Thickness and Process Energy**
Alexander Sviridov[1]; [1]Brandenburg University of Technology Cottbus-Senftenberg

AM INVITED — **Unveiling 3D Sub-Grain Residual Stresses in As-Built Additively Manufactured Steel using Scanning 3DXRD**
Jerard Gordon[1]; [1]University of Michigan

AM INVITED — **Ultraviolet Digital Image Correlation (UV-DIC) for Non-Contact Strain Measurement at Extreme Temperatures, Magnifications, and Standoff Distances**
Ryan Berke[1]; [1]Utah State University

AM INVITED — **Ultilising Electron Back Scattered Diffraction for Grain Size Measurement of Additively Manufactured Materials - Results of Intercomparison Exercise**
Tony Fry[1]; [1]National Physical Laboratory

AM REGULAR — **Impact-Resistant Sandwich Panels with 3D Printed Auxetic Chiral Cores**
Seyed Hamid Reza Sanei[1]; [1]Pennsylvania State University

AM REGULAR — **On the Mechanical Properties of Additively Manufactured Gyroids**
Philip Bean[1]; [1]University of Maine - Advanced Structures and Composites Center

AM REGULAR — **Design and Mechanical Behavior Optimization of Auxetic Metamaterials using Machine Learning-Guided Stress Prediction and Control**
Yaoyao Fiona Zhao[1]; [1]McGill University

SESSION CHAIR (PM SESSION):
TBA

PM INVITED — **Creating "Plug and Play" Approach for Metal Additive Manufacturing**
Swee Leong Sing[1]; [1]National University of Singapore

PM INVITED — **Science-Informed Materials Discovery via Computational Materials Engineering: Multi-Scale Multi-Physics Modelling**
Chinnapat Panwisawas[1]; [1]Queen Mary University of London

PM INVITED — **Prediction of Fracture in Complex Additively Manufactured Alloys**
Allison Beese[1]; [1]Pennsylvania State University

PM REGULAR — **Fast-Tracking LPBF Qualification: Reducing Time and Cost with In-Situ and PIP Methods**
Yash Parikh[1]; [1]EOS

PM REGULAR — **Designing Microstructure, Not Just Parts: A Software-Driven Approach to Microstructure Control and Validation**
Benjamin Robinson[1]; [1]Dyndrite

PM REGULAR — **Voxel-Scale Process Control for Microstructural and Thermomechanical Tailoring of NiTi and NiTiHf Shape Memory Alloys via Laser Powder Bed Fusion**
Abdelrahman Elsayed[1]; [1]Texas A&M University

07TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM REGULAR — **Part Temperature Effects on Porosity and Microstructure during Laser Powder Bed Fusion Additive Manufacturing of Alloy 718**
Sneha Prabha Narra[1]; [1]Carnegie Mellon University

AM REGULAR — **Understanding Deformation Mechanisms in Wire Arc Additively Manufactured Nickel Aluminum Bronze**
Aeriel Leonard[1]; [1]Ohio State University

AM INVITED — **Microstructural Modification in Titanium Wire-Feed Additive Manufacturing**
Andrew Baker[1]; [1]Boeing

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ICAM 2025 TENTIVE PROGRAM AGENDA

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AM **INVITED**
Wire-Based Direct Energy Deposition: Bridging the Gap between Process and Performance in Structural Alloys
Hannah Sims[1]; [1]Sandia National Laboratories

AM **INVITED**
Creep Behavior of Laser Powder Bed Fusion Haynes 282 Alloy and Integrity of its Welds for Concentrated Solar Power Systems
Nadia Kouraytem[1]; [1]Utah State University

AM **REGULAR**
Processing-Structure-Properties Relationships of Solid Solution Strengthened Ni-Based Superalloys Fabricated via Laser Powder Bed Fusion
Amanda Heimbrook[1]; [1]Oak Ridge National Laboratory

AM **REGULAR**
Exploring High Temperature Functionally Graded Alloys for Site-Specific Property Response
Soumya Nag[1]; [1]Oak Ridge National Laboratory

AM **REGULAR**
Structural Analysis and Mechanical Characterization of CuSn10 and CuAl10 Alloys Fabricated by Selective Laser Melting
Ramin Rahmani[1]; [1]Centro de Interface Tecnológico Industrial (CiTin); Instituto Politécnico de Viana do Castelo (IPVC)

08TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (PM SESSION):
TBA

PM **INVITED**
Microstructure and Mechanical Control of Metal AM for Critical Applications
Nik Hrabe[1]; [1]NIST

PM **INVITED**
Enhanced Strength and Ductility of Metametals Additively Manufactured through Laser Sheet Fusion
Chang Quan (CQ) Lai[1]; [1]Nanyang Technological University

PM **INVITED**
Profilometry-Based Indentation Plastometry: A Game Changer for Mechanical Evaluation
Sabina Kumar[1]; [1]Eaton

PM **REGULAR**
Comparison of Uncertainties in Tensile Properties of Additively Manufactured Ti64 using Profilometry-Based Indentation Plastometry (PIP) and Tensile Testing
Tony Fry[1]; [1]National Physical Laboratory

PM **REGULAR**
Overcoming Challenges in Load Bearing Area Determination for As-Deposited Additive Manufactured Parts
Jan Džugan[1]; [1]COMTES FHT

PM **REGULAR**
Mechanical Properties of Sub-Sized Specimens Excised from Part Geometries
Nathan Bryant[1]; [1]University of Dayton Research Institute

09TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM **REGULAR**
Iron-Based Alloys: A Promising Alternative for Biodegradable Medical Devices
Jan Džugan[1]; [1]COMTES FHT

AM **REGULAR**
Microstructural Modification of LPBF-Processed High Manganese Steel by Laser Parameter Alternation
Daniel Koutný[1]; [1]Brno University of Technology

AM **INVITED**
Experimental Investigation of Material Properties Affecting Fatigue Behavior of a Ti Gr.5 Alloys Produced by Additive Manufacturing L-PBF and EB-PBF Processes Techniques
Riccardo Toninato[1]; [1]Enovis

AM **INVITED**
Microstructural Engineering and Crack Mitigation in Electron Beam Powder Bed Fusion of Pure Tungsten
Kenta Yamanaka[1]; [1]Tohoku University

AM **INVITED**
Investigating the Sensitivity of Microstructure and Mechanical Properties to LPBF Process Parameters for Thin-Walled Alloy 316 Components
Matthew Rowson[1]; [1]Rolls-Royce

AM **REGULAR**
Effect of Wall Thickness on the Mechanical Properties and Strengthening Mechanisms of 17-4 PH Stainless Steel Fabricated by Laser Powder Bed Fusion
Chuankai Song[1]; [1]Oregon Institute of Technology - Oregon Manufacturing Innovation Center

AM **REGULAR**
Characterizing Additively Manufactured Thin-Walled Structures for Critical Aerospace Components
Colton Katsarelis[1]; [1]NASA - Marshall Space Flight Center

AM **REGULAR**
Evaluation of the Mechanical Behavior of GRCop42, Produced by PBF-LB Technology, at Low Temperatures for High-Demanding Basic Physics Research Applications
Daniele Cortis[1]; Donato Orlandi[1]; [1]INFN - Gran Sasso National Laboratory

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ICAM 2025 TENTIVE PROGRAM AGENDA

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SESSION CHAIR (PM SESSION):
TBA

PM **INVITED**
Mechanical and Microstructural Evolution Across Lengths Scales during Additive Manufacturing
Danielle Cote[1]; [1]Worcester Polytechnic Institute

PM **INVITED**
Exploiting Rapid Solidification to Realize Aluminum Alloys with Exceptional Mechanical Properties and Extended Thermal Stability
S. Mohadeseh Taheri-Mousavi[1]; [1]Carnegie Mellon University

PM **INVITED**
The Ultra-High Temperature Stability and Properties of GRX-810
Timothy Smith[1]; [1]NASA - Glenn Research Center

PM **REGULAR**
Tensile Strength and Compressive Strength of Oxide Dispersion Strengthened Ni-Co-Cr GRX-810 Alloy Cellular Octet Lattice Structures Manufactured with Laser Powder Bed Fusion
Hallie Collopy[1]; [1]NASA - Marshall Space Flight Center

PM **REGULAR**
Evaluation of Thermal Conductivity of GRCop42, Produced by PBF-LB Technology, at Low Temperatures for High-Demanding Basic Physics Research Applications
Daniele Cortis[1]; [1]INFN - Gran Sasso National Laboratory

10TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM **REGULAR**
Advanced Manufacturing of Corrosion-Resistant High Entropy Alloy for Nuclear Application
Priyanshi Agrawal[1]; [1]Idaho National Laboratory

AM **REGULAR**
Process Optimization and Microstructural Evolution in Friction Surface Layer Deposited Triple-Phase Al10Cr12Fe35Mn23Ni20 High Entropy Alloy
Mohan Sai Kiran Kumar Yadav Nartu[1]; [1]Pacific Northwest National Laboratory

AM **INVITED**
SmartScan: Accelerated In-Situ Microstructural Control in L-PBF via Optimized Dual-Laser Toolpaths
Chinedum Okwudire[1]; [1]University of Michigan

AM **INVITED**
Breaking the 15-45µm Habit: Choosing Powder PSD Based on Applications
Yevgeni Brif[1]; [1]GE Aerospace - AP&C

AM **INVITED**
Heat Treat Response of a Gamma Prime Strengthened Ni-Based Superalloy Manufactured via Laser Powder Bed Fusion
Matias Garcia Avila[1]; [1]ATI

AM **REGULAR**
Impact of Heat Treatment on the Mechanical Properties and Microstructure of Wire DED Cu-30Ni
Debjit Misra[1]; [1]University of Pittsburgh

AM **REGULAR**
Influence of Interpass Temperature on the Dynamic Tensile Deformation Behaviour of 316L Produced by Wire Arc Additive Manufacturing
Stefan Böhm[1]; [1]University of Kassel

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ICAM 2025 TENTIVE PROGRAM AGENDA

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VALUE CHAIN

NON-DESTRUCTIVE EVALUATION AND INSPECTION

06TH OCT 2025 (MON) – 07TH OCT 2025 (TUE)

CO-ORGANIZERS:

Elliott Cramer
NASA - Langley Research Center, USA

Ben Dutton
Manufacturing Technology Centre, United Kingdom

Frank Herold
VisiConsult, Germany

Patrick Howard
GE Aerospace, USA

Philip Riegler
Norsk Titanium, USA

Tyler Ripperger
Waygate Technologies, USA

06TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM REGULAR — **Towards Fully Automated Quality-Assured Metal Additive Manufacturing**
Rastislav Zimermann[1]; [1]University of Strathclyde

AM REGULAR — **With Great AI Power Comes Great Responsibility...and the Need for Trust**
Justin Olsen[1]; [1]Nikon Metrology

AM INVITED — **Compliant in Situ Inspection of LPBF Parts using Eddy Currents**
Bernard Revaz[1]; [1]AMiquam

AM INVITED — **Monitoring of X-Ray CT System Performance with Respect to Additive Manufacturing**
Holger Roth[1]; [1]Baker Hughes Digital Solutions

AM INVITED — **Statistical Methods for Industrial X-Ray Computed Tomography Process Control**
Don Roth[1]; [1]Wohlers Associates

AM INVITED — **Confidence in Quality Testing Components Utilizing Computed Tomography**
Ben Connors[1]; Justin Olsen[1]; [1]Nikon Metrology

SESSION CHAIR (PM SESSION):
TBA

PM INVITED — **NDE of Polymeric Additively Manufactured Parts**
Wilson Vesga[1]; [1]Manufacturing Technology Centre

PM INVITED — **Defect Densities in Additively Manufactured Alloys Determined with Nonlinear Reverberation Spectroscopy**
Ward Johnson[1]; [1]NIST

PM INVITED — **Representative Quality Indicators (RQIs) in Large Scale AM Components: Flaw Generation Mechanisms and Detection using Nonlinear Resonance**
Julian Wright[1]; James Watts[1]; [1]Theta Technologies; [2]Aerojet Rocketdyne

PM INVITED — **Ex-Situ Inspection of LPBF to Assess Fatigue and Damage Tolerance**
Mark Shaw[1]; [1]Wichita State University - National Institute for Aviation Research

07TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM REGULAR — **Combined Use of Neutron Beam-Based Non-Destructive Investigation Techniques for Characterization of Components Produced by PBF-LB Technology**
Donato Orlandi[1]; [1]INFN - Gran Sasso National Laboratory

AM REGULAR — **Rapid High-Throughput Time-Resolved 3D Flaw Characterization of LPBF 316H Parts Printed with Hybrid Printing Parameters**
Rahul Franklin[1]; [1]Oak Ridge National Laboratory

AM INVITED — **Applied NDE 4.0 Principles to the Characterization of PBF-LB Component Volumes**
Lloyd Schaefer[1]; [1]General Atomics - Aeronautical Systems

AM INVITED — **US Navy Maritime Industrial Base Nondestructive Testing for LPBF and DED**
Rick Russell[1]; [1]The Barnes Global Advisors

AM INVITED — **Inline Nondestructive Evaluation and Process Control during Metal Directed Energy Deposition 3D Printing**
Hoon Sohn[1]; [1]Korea Advanced Institute of Science and Technology

AM INVITED — **Non-Contact Imaging of Subsurface Defects for In-Situ Monitoring of Additive Manufacturing Process**
Takahiro Hayashi[1]; [1]Osaka University

SESSION CHAIR (PM SESSION):
TBA

PM INVITED — **Model-Assisted Probability of Detection (MAPOD) Evaluation with Reduced Empirical Testing for NDE Reliability Assessment**
John Aldrin[1]; [1]Computational Tools

PM INVITED — **Model Assisted POD Study utilizing High Energy CT (9MeV) and Simulation Tool aRTist**
Taeho Ju[1]; [1]Blue Origin

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PM
INVITED

Simurgh: AI-Powered Fast and Accurate X-Ray CT Reconstruction for High-Throughput Inspection of Complex Additive Manufacturing Parts

Amir Ziabari[1]; [1]Oak Ridge National Laboratory

PM
REGULAR

Surface Roughness Analysis for AM Lattice Structures: A Novel Methodology and Practical Insights

Armando Coro[1]; [1]ITP Aero

PM
INVITED

Quantitative Assessment of Impacts to XCT-Based AM Porosity Characterization

Daniel Sparkman[1]; [1]Air Force Research Laboratory

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VALUE CHAIN

SINTER-BASED TECHNOLOGIES

08TH OCT 2025 (WED) – 10TH OCT 2025 (FRI)

CO-ORGANIZERS:

Animesh Bose
Shaping Innovations, USA

Amy Elliott
Oak Ridge National Laboratory, USA

Benoit Verquin
Cetim - French Technical Center for Mechanical Industries, France

Efrain Carreño-Morelli
University of Applied Sciences and Arts Western Switzerland, Switzerland

Simon Höges
GKN Additive, Germany

Thomas Weißgärber
Fraunhofer IFAM, Germany

08TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM REGULAR — **The Three-Dimensional Distribution of Liquid Eutectic Phase in Non-Pressure-Sintered Al-Dy2O3 and its Mechanical Properties**
Yuji Shigeta[1]; [1]National Institute of Advanced Industrial Science and Technology (AIST)

AM REGULAR — **Full-Scale Simulation of Debinding in Metal Binder Jetting: Addressing Multi-Physics Challenges for Improved Manufacturing Efficiency for Binder Jetting Processing**
Yan Liu[1]; [1]Simtec Soft

AM INVITED — **Sinter-Based Additive Manufacturing - Challenges in De-Binding and Sintering of Printed Parts**
Thomas Weißgärber[1]; [1]Fraunhofer IFAM

AM INVITED — **Optimization of De-Binding and Sintering Process for NiTi-X (Hf, Cu) Shape Memory Alloys in Binder Jetting Process**
Mohammad Elahinia[1]; [1]University of Toledo

AM INVITED — **Sintering of Cold Spray Additive Manufacturing Products**
Animesh Bose[1]; [1]Shaping Innovations

AM INVITED — **Metal Binder Jetting MythBusters**
Rohit Reddy[1]; [1]Endeavor 3D

SESSION CHAIR (PM SESSION):
TBA

PM INVITED — **Binder Jet Metal Printing in Mass Production - Advances and Challenges**
Mukund Nagaraj[1]; [1]INDO-MIM

PM INVITED — **Aluminum 7075 in Binder Jet Additive Manufacturing: Early Insights**
Nick Murphy[1]; [1]Kymera International

PM INVITED — **Advancing Aluminum Binder Jetting Technology: Materials, Processes, and Applications in Thermal Management Systems**
Shinichiro Sato[1]; [1]Ricoh

PM REGULAR — **Drastic Sinterability Improvement of Al Alloy Powder with Minimal Amounts of Rare Earth Elements for Applying the BJT Process**
Yusuke Hirayama[1]; [1]National Institute of Advanced Industrial Science and Technology (AIST)

PM REGULAR — **High-Volume Production Case Studies in Metal Binder Jetting**
Mattia Forgiarini[1]; [1]Azoth

PM INVITED — **Induced Porosity During Binderjetting and Case Studies of Overcoming Pore-Grain Boundary Separation During Sintering**
Pavan Suri[1]; [1]HP

09TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM REGULAR — **Production of WC-10Co FSW Tool using Fused Filament Fabrication**
Julian David Rubiano Buitrago[1]; [1]National University of Colombia

AM REGULAR — **Design of a Multimaterials Dispenser Prototype for Binder Jet 3D Printing Targeting Eddy-Current-Reduced Magnetic Ceramic Components**
Tej Nath Lamichhane[1]; [1]University of Central Oklahoma

AM INVITED — **Advancements in Multi-Material Additive Manufacturing and Spark Plasma Sintering: A Collaborative Approach to High-Performance Component Fabrication**
Christopher Melnyk[1]; [1]California Nanotechnologies

AM INVITED — **Design and Process Insights from Multi-Component Embedding in Binder Jet AM**
Amy Elliott[1]; [1]Oak Ridge National Laboratory

AM INVITED — **Solvent on Granules 3D Printing of Shape Memory Alloys**
Efrain Carreño-Morelli[1]; [1]University of Applied Sciences and Arts Western Switzerland

AM REGULAR — **Functional Binders for Bind Jet Additive Manufacturing**
Dustin Gilmer[1]; [1]University of Tennessee Space Institute

AM REGULAR — **Inconel 718 Superalloy Production by MoldJet® Technology**
Ben Arnold[1]; [1]Tritone Technologies

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SESSION CHAIR (PM SESSION):
TBA

PM **INVITED** — **Sinter-Based Titanium Manufacturing for Medical Applications: A Comparative Study of MIM, LMM, and CMF with an Emphasis on Microstructural Refinement**
Tim Marter[1]; [1]Element22

PM **INVITED** — **Material Development as Enabler for the Lithography-Based Metal Manufacturing Process**
György Harakály[1]; [1]Incus

PM **INVITED** — **Lithography-Based Metal Manufacturing for Medical Applications**
Mattia Forgiarini[1]; [1]Azoth

PM **REGULAR** — **Evaluation and Benchmarking of Cold Metal Fusion**
Sabina Kumar[1]; [1]Eaton

PM **INVITED** — **ColdMetalFusion – Achieving Smooth Surfaces Efficiently with Green Part Processing**
Marcel Strobel[1]; [1]Headmade Materials

10TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM **REGULAR** — **In-Situ Measurement of Powder Bed Density for Process Monitoring**
Nathan Crane[1]; [1]Brigham Young University

AM **REGULAR** — **Real-Time Anomaly Detection and Process Control for Binder Jet Printing**
Luke Scime[1]; [1]Oak Ridge National Laboratory

AM **INVITED** — **Performance Optimization of Copper Thermal Management Devices**
Simon Höges[1]; [1]GKN Additive

AM **INVITED** — **Development of an Industrial Application Made by Metal Binder Jetting: Schneider Electric Power Filter**
Thomas Rivoire[1]; Guillaume Fribourg[1]; [1]Schneider Electric

AM **INVITED** — **Processing of P91 Heat Resistant Steel by Binder Jetting Technology for Energy Applications**
Iñigo Agote[1]; [1]TECNALIA Research & Innovation

AM **INVITED** — **Sinter-Based Additive Manufacturing of High Nitrogen Stainless Steels**
Iñigo Iturriza[1]; [1]Ceit Technology Center

AM **INVITED** — **Sinter-Based Additive Manufacturing of 316L Stainless Steel: Tailoring Microstructures and Properties**
Mahmood Shirooyeh[1]; [1]3DEO

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ICAM 2025 TENTIVE PROGRAM AGENDA

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VALUE CHAIN

SUSTAINABILITY AND ECONOMICS

09TH OCT 2025 (THU) – 10TH OCT 2025 (FRI)

CO-ORGANIZERS:

Angeline Goh
Shell, The Netherlands

Taisia (Asya) Lou
Boeing, USA

Behrang Poorganji
Nikon AM Synergy, USA

Marius Lakomiec
EOS, Germany

Sherri Monroe
Additive Manufacturer Green Trade Association, USA

09TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM REGULAR — **Recent Advances in Laser Technology Improve Reproducibility for Large-Format, Multi-Aperture Powder Bed Fusion**
Robert Martinsen[1]; [1]nLIGHT

AM REGULAR — **Powder and Process Optimization for Sustainable Additive Manufacturing (POSAM)**
Brian Fisher[1]; [1]RTX Technology Research Center

AM INVITED — **The Impact of Digital Manufacturing Passport for Meeting Sustainability Targets and Driving Supply Chain Efficiencies in Energy Industry**
Faisal Iqbal[1]; Angeline Goh[2]; [1]Baker Hughes; [2]Shell

AM INVITED — **Reduction of Total Cost of Ownership (TCO) through Optimized AM Systems and Processes**
Marius Lakomiec[1]; [1]EOS

AM INVITED — **Environmental Tradeoffs of Additive Manufacturing with Waste Plastics**
Carolyn Seepersad[1]; [1]Georgia Institute of Technology

AM REGULAR — **Can Additive Manufacturing Help Sustainability without Damaging Profitability?**
Mark Rushton[1]; [1]aPriori Technologies

AM INVITED — **Additive Manufacturing in Colombia: Present and Future**
Gersson Torres[1]; [1]ICONTEC

SESSION CHAIR (PM SESSION):
TBA

PM INVITED — **Transforming the Supply Chain with AM and Digital Inventories**
Brede Lærum[1]; [1]Equinor

PM INVITED — **AME Enabling Complex Geometries, Embedding 3D-Printed Components**
Peter Johnsamson[1]; [1]Nano Dimension

PM INVITED — **Floating Ball Valve Size 2", Class 150, Material ASTM-F3055, Produced by AM & Certified According to European Pressure Equipment Directive (PED 2014/68/EU)**
Oscar Barcella[1]; Massimiliano Salogni[2]; [1]BFE - Bonney Forge; [2]Fluorten

PM REGULAR — **Bonding Mechanisms and Performance of Recycled, Contaminated Multi-Alloy Aluminum Chips in the Production of Semi-Finished Products**
Alexander Koch[1]; [1]TU Dortmund University

PM REGULAR — **Toward a Circular Path in Metal Additive Manufacturing: Electrochemical and Microstructural Assessment of Recycled Bound Metal Deposition SS316L with Ceramic Support Inclusions**
Marwan Khraisheh[1]; [1]Hamad Bin Khalifa University

PM REGULAR — **Additive Manufacturing, Bridge Production & Custom Manufacturing**
Daniel Baker[1]; [1]Endeavor 3D

10TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM REGULAR — **The Innovation of Additive Manufacturing Polymer Materials**
Daniel Baker[1]; [1]Endeavor 3D

AM REGULAR — **Synchronous Production in Metal Additive Manufacturing**
Maciej 'Matt' Tusz[1]; [1]Magnitude Innovations

AM INVITED — **Scaling Circular Manufacturing in Metal AM: From Carbon Validation to Real-World Impact**
Donald Magnuson[1]; [1]Continuum Powders

AM INVITED — **Powder Innovation Transforming Copper LBPF Economics**
Ben Arnold[1]; [1]Metal Powder Works

AM INVITED — **An Alternative Qualification Testing of an AMSL 3 Component Based on ASME B16.9**
Bård Angell Bergh[1]; [1]IK Topside

AM INVITED — **Economic Benefits of Cold Spray Additive for Large Metal Parts**
Pierre Devaux[1]; [1]SPEE3D

AM REGULAR — **Welding Automation: Streamlining Repetitive Tasks to Value Skilled Welders**
Tilo Greenbaum[1]; [1]DMG MORI

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ICAM 2025 TENTIVE PROGRAM AGENDA

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NON-METALLIC MATERIALS

CERAMICS AND ELECTRONICS

07TH OCT 2025 (TUE)

CO-ORGANIZERS:

Shawn Allan
Lithoz, USA

Brandon Cox
Honeywell, USA

Samuel Gatley
New Jersey Institute of Technology, USA

Matthew Krohn
Pennsylvania State University, USA

Russell Maier
NIST, USA

Ye Wang
TE Connectivity, USA

07TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM REGULAR — **Flexible Electronics at NJII**
Justin Reig[1]; [1]New Jersey Innovation Institute - COMET

AM REGULAR — **Optimizing Design Requirements for Flexible Hybrid Electronics through Predictive Modeling**
Jayden Johnson[1]; [1]New Jersey Innovation Institute - COMET

AM INVITED — **Concurrent Design and Process Planning for the Hybrid Additive Manufacturing of Three-Dimensional Structural Electronics**
Guha Manogharan[1]; Ashish Jacob[1]; [1]Pennsylvania State University

AM INVITED — **The Additive Manufacturing of Mesoscale Functional Materials**
Joseph Mantese[1]; [1]RTX Technology Research Center

AM INVITED — **Additive Manufacturing of Nano and Microelectronics for Chiplets and 3D Heterogenous Integration**
Ahmed Busnaina[1, 2]; [1]Northeastern University; [2]Nano OPS

AM INVITED — **LEO Manufacturing of 3D Printed Metallic Composite Nanomaterials for Advanced Electronics**
Timothy Hall[1]; [1]Faraday Technology

AM INVITED — **High-Precision 3D Printing for the Next Generation of Electronic Components**
Jake Collins[1]; [1]Boston Micro Fabrication

AM REGULAR — **Additive Manufactured Electronics Standards Development**
Isaiah Colón[1]; [1]New Jersey Innovation Institute

SESSION CHAIR (PM SESSION):
TBA

PM INVITED — **Transforming Marine Biomass into Functional 3D Printed Ceramics: Energy-Efficient Sintering and CFD-Guided Designs for Ecosystem Restoration**
Vasily Korshikov[1]; [1]Thrasos 3D

PM INVITED — **Selective Metallization of 3D Printed Ceramic Parts**
Analisa Russo[1]; [1]Nano Dimension

PM INVITED — **NIST AM Bench: Cure Depth Studies on Narrow and Wide Bandwidth Light Engines of Varied Resin Absorber Compositions**
Callie Higgins[1]; [1]NIST

PM REGULAR — **The Processes of Additively Manufactured Alumina Ceramics for Propulsion Applications**
Jenna Sayler[1]; [1]NASA - Marshall Space Flight Center

PM REGULAR — **Miniaturizing Insulator Design with Additive Manufacturing of Ceramics**
Analisa Russo[1]; [1]Nano Dimension

PM REGULAR — **Additive Manufacturing of Crystallographically Textured Ceramics: A Pathway to Advanced Piezoelectric Devices**
Christopher Eadie[1]; [1]Pennsylvania State University

PM REGULAR — **Optimization of Ceramic Vat Photopolymerization by Controlling Resin Rheology**
Samuel Hales[1]; [1]NIST

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ICAM 2025 TENTIVE PROGRAM AGENDA

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NON-METALLIC MATERIALS

POLYMERS

08TH OCT 2025 (WED) – 10TH OCT 2025 (FRI)

CO-ORGANIZERS:

Mohammad Amjadi
Arkansas Tech University, USA

Thomas Fabian
Blue Sky Polymer Consulting, USA

Jessica Hemond
TE Connectivity, USA

Callie Higgins
NIST, USA

Phillip Nagel
3D Systems, USA

Karl Nelson
Stratasys, USAs

08TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM REGULAR — **Low-Cost Circular Economy for Recycled Waste Plastic Blends without Separation and their Use in 3D Printing of New Recycled Parts for Industrial Applications**
Ramona Fayazfar[1]; Mihaela Mihai[2]; [1]Ontario Tech University; [2]National Research Council Canada

AM REGULAR — **Advances in the Development of a Circular Economy for Thermoplastic Composites Used in Large Format Additive Manufacturing**
Edward Cant[1]; [1]University of Birmingham

AM INVITED — **Using SAF Powder Bed Fusion to Advance Sustainable Manufacturing**
Alec Logeman[1]; [1]Stratasys

AM INVITED — **Fatigue Performance of AM Polymer Composites: Role of Processing-Induced Defects**
Mohammad Amjadi[1]; [1]Arkansas Tech University

AM INVITED — **Evaluating Hardness in 3D-Printed Polymer Composites for Sheet Metal Forming Dies**
Jonathan Seppala[1]; [1]NIST

AM INVITED — **Impact of Filament / Feedstock Dimensional Control and Fill Density on Tensile Properties of Additive FFF ULTEM9085**
Aaron Gregg[1]; [1]Stratasys

AM INVITED — **Enhancing 3D Printing with Orgasol® PA12 Powders: Superior Recyclability and Surface Aesthetics**
Krysten Minnici[1]; [1]Arkema

AM REGULAR — **Enhancing the Processability of Cryogenically Milled PA12 Powders for Cost-Effective PBF-LB**
Matteo Turani[1]; Daniel Werner[1]; [1]inspire - Innovation Center for Additive Manufacturing Switzerland

SESSION CHAIR (PM SESSION):
TBA

PM INVITED — **Damage Tolerance and Nondestructive Evaluation Methodology for Polymeric Structural Materials**
Baxter Barnes[1]; [1]NASA - Marshall Space Flight Center

PM INVITED — **Material Extrusion Additive Manufacturing at the Large Scale- Adaptations for Mechanical Testing Standards**
Audrey Laffely[1]; Susan MacKay[1]; [1]University of Maine - Advanced Structures and Composites Center

PM INVITED — **High-Speed Powder Bed Fusion Process for Polymers Using a High-Energy Near-Infrared Laser**
Yuki Yamauchi[1]; [1]Tokyo Metropolitan Industrial Technology Research Institute

PM REGULAR — **Enhancing the Processability of Biodegradable Polyhydroxyalkanoates for Additive Manufacturing**
Edward Cant[1]; [1]University of Birmingham

PM REGULAR — **Stepping Away from PA12 - Alternative Materials for Selective Laser Sintering of Plastics**
Daniel Werner[1]; [1]inspire - Innovation Center for Additive Manufacturing Switzerland

PM REGULAR — **Sustainable 3D Foam Printing of PET and PLA using CO_2-Induced Crystallization Without Chemical Additives**
Lorenzo Lombardi[1]; [1]University of Naples Federico II

PM REGULAR — **Foam Additive Manufacturing: Tailored Foam Structures Produced via Material Extrusion**
Andrea Lorenzo Henri Sergio Detry[1]; [1]University of Milan

09TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM REGULAR — **Thermal Management to Control Warpage of Large Scale Additive Manufacturing**
James Gayton[1]; Gabriel Fein[1]; University of Maine - Advanced Structures and Composites Center

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AM **REGULAR**
Thermal Properties and Printing Parameters in Additive Manufacturing: A Data Mining-Driven Dataset
Toni Beth Lopez[1]; [1]DOST - Metals Industry Research and Development Center (AMCen)

AM **INVITED**
Accelerating Qualification of Additive Manufacturing for Flight Production
Charles Evans[1]; [1]Stratasys

AM **INVITED**
Additively Manufactured Polymer Wind Tunnel Models for High-Speed Aerospace Research
Bryce Laycock[1]; [1]University of Dayton Research Institute

AM **INVITED**
Polymer Replacement Parts in the Aviation Aftermarket
Scott Sevcik[1]; [1]Wohlers Associates

AM **INVITED**
Advances in Polymer Composite Additive Manufacturing: Materials, Processes, and Performance
Hilmar Koerner[1]; [1]Air Force Research Laboratory

AM **REGULAR**
In-Situ and Ex-Situ Repair of 3D Printed Continuous Fiber Composites: Method and Performance
Kaveh Rashvand[1]; [1]Technical University of Denmark

SESSION CHAIR (PM SESSION):
TBA

PM **INVITED**
Ceramic Additive Manufacturing Standards Development At NIST: Progress in Rheological Standards Development of Dense Suspensions
Russell Maier[1]; [1]NIST

PM **INVITED**
Ensuring Safety Throughout the Entire AM Ecosystem
Amanda Griffin[1]; [1]UL Solutions

PM **INVITED**
3D Printed (FSD) Biomimetic Trabecular PEEK Spinal Implants: Insights on Biomechanics and Osseointegration
Erik Erbe[1]; [1]Curiteva

PM **REGULAR**
Fabrication of Bioinspired Cylindrical Architectures with Enhanced Mechanical Performance using Additive Manufacturing
Fariborz Tavangarian[1]; [1]Pennsylvania State University

PM **REGULAR**
Emissivity Measurement of Fiber Reinforced Polymer Systems for Large Scale Additive Manufacturing Process Monitoring
James Gayton[1]; [1]University of Maine - Advanced Structures and Composites Center

PM **REGULAR**
Core & Sheath Multiplexing Extrusion System Development for Unique Multi-Material Capability for Polymer Additive Manufacturing
Halil Tekinalp[1]; [1]Oak Ridge National Laboratory

PM **REGULAR**
Integrating the Self-Reinforcing Effect of Polyethylene into the Additive Manufacturing Process
Maximilian Krönert[1, 2]; [1]Bundeswehr Research Institute for Materials, Fuels and Lubricants; [2]University of the Bundeswehr Munich

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10TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM **REGULAR**
CT-Assisted Crack Evaluation of 3D-Printed Spicule-Inspired Structures with Enhanced Mechanical Toughness
Fariborz Tavangarian[1]; [1]Pennsylvania State University

AM **REGULAR**
An Efficient Material Testing Process for Polymer-Extrusion LFAM Simulations
Harsh Baid[1]; [1]AlphaSTAR

AM **INVITED**
Challenges and Solutions in Standardizing Material Testing for 3D Printed Photopolymers in Precision Applications
Jonathan Andersson[1]; [1]Arkema

AM **INVITED**
Distortion Prediction of Digital Light Processing Vat Photopolymerization Components using a Multiphysics Modelling Framework
David Rosen[1]; [1]A*STAR - IHPC / SIMTech

AM **INVITED**
Characterizing the Effect Temperatures Over the Glass Transition and Melting Points on Dynamic Powder Flow of AM Polymers
Nicholas Monroe[1]; [1]Micromeritics

AM **INVITED**
Viscogels: Photopolymers with Molded Plastic Properties
Robert Young[1]; [1]Supernova

AM **INVITED**
Cyclic Olefin Resins for Additive Manufacturing
Raymond Weitekamp[1]; [1]polySpectra

AM **REGULAR**
Evaluating Impact of Raster Angle and Interlayer Arrangement on Tensile Properties of PLA TPU Multi Material Parts with FFF Industrial 3D Printer
Shailendra Kumar[1]; [1]Sardar Vallabhbhai National Institute of Technology, Surat

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ICAM 2025 TENTIVE PROGRAM AGENDA

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INDUSTRY 4.0

ARTIFICIAL INTELLIGENCE, MACHINE LEARNING, AND BIG DATA ANALYTICS

08TH OCT 2025 (WED) – 10TH OCT 2025 (FRI)

CO-ORGANIZERS:

Peter Coutts
Pennsylvania State University, USA

Sanam Gorgannejad
Lawrence Livermore National Laboratory, USA

Jia (Peter) Liu
Auburn University, USA

Simon McCaldin
Authentise, United Kingdom

Omar Fergani
1000 Kelvin, Germany

Paul Guerrier
Moog, USA

Yan Lu
NIST, USA

Zackary Snow
Oak Ridge National Laboratory, USA

08TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM REGULAR — **Multi-Scale Process-Structure-Performance Framework in Selective Laser Melting of AlSi10Mg: A Data-Driven Approach**
Lizi Cheng[1]; [1]University of Manchester

AM REGULAR — **Localized Inherent Strain Prediction in LPBF using Machine Learning and Moving Heat Source Simulations**
Clancy Umphrey[1]; [1]Ansys

AM INVITED — **Accelerating Modeling of Laser Energy Deposition, Microstructure Evolution and Part Distortion with Deep Neural Networks and Reduced Order Modeling**
Saad Khairallah[1]; [1]Lawrence Livermore National Laboratory

AM INVITED — **Innovate Physics-Informed Machine Learning to Improve Fatigue Performance Prediction of Laser Powder Bed Fusion**
Jia (Peter) Liu[1]; [1]Auburn University

AM INVITED — **Material Transferability for On-Machine Monitoring during Laser Powder Bed Fusion**
Nicholas Calta[1]; [1]Lawrence Livermore National Laboratory

AM REGULAR — **In-Situ Monitoring of Large Scale Additive Manufacturing for On-Earth and In-Space Applications**
Fabio Caltanissetta[1]; [1]Caracol

AM REGULAR — **AI-Driven Optimization of Dimensional Accuracy and Mechanical Performance in Additive Manufacturing of Precision Gears for Sensor and Counter Applications**
Leif Oliver Coronado[1]; [1]DOST - Metals Industry Research and Development Center (AMCen)

SESSION CHAIR (PM SESSION):
TBA

PM INVITED — **A Metamodel for Computation to Enable Findable, Accessible, Interoperable, and Reusable Digital Twin**
Shengyen Li[1]; [1]NIST

PM INVITED — **Digital Twins for Born Qualified, First-time-Right Additive Manufacturing - A Physics and Data Integrated Approach for Design Optimization, Process Monitoring and Control in Laser Powder Bed Fusion**
Prahalada Rao[1]; [1]Virginia Tech

PM INVITED — **AM Data Integration for Commercial MES**
Benjamin Standfield[1]; [1]Commonwealth Center for Advanced Manufacturing (CCAM)

PM REGULAR — **CAMSPEC: The Digital Twin's Manufacturing Memory**
Harry Lucas[1]; [1]Phasio

PM REGULAR — **AI/ML-Powered Enhancement of Additive Manufacturing Processes and Security: Real-World Perspective from an MES Solution Provider**
Simon McCaldin[1]; [1]Authentise

PM REGULAR — **From Data to Decisions: Leveraging Real-Time Performance Monitoring to Drive Smart Manufacturing**
Kathryn Sherman[1]; [1]TEEPTRAK

09TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM REGULAR — **Advancing In-Situ Flaw Detection in Laser Powder Bed Fusion: A Multi-Sensor Fusion and Explainable AI Approach**
Sarah Malik[1]; [1]Johns Hopkins University - Applied Physics Laboratory

AM REGULAR — **Applying Machine Learning to the Melt Pool Spatter Problem in Additive Manufacturing**
Jack Beuth[1]; [1]Carnegie Mellon University

AM INVITED — **Multi-Sensor Data Integration for AI-Driven Analysis in Additive Manufacturing**
Shuchi Khurana[1]; [1]Addiguru

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ICAM 2025 TENTIVE PROGRAM AGENDA

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AM **INVITED** **Leveraging Machine Learning to Uncover Correlations between Process Monitoring Data and Resulting Performance in Metal Additively Manufactured Parts Produced via Powder Bed Fusion**
Jayme Keist[1]; [1]Pennsylvania State University - Applied Research Laboratory

AM **INVITED** **The Next Step of Process Monitoring for Additive Manufacturing: In Situ Non-Destructive Evaluation using Machine Learning**
Zackary Snow[1]; [1]Oak Ridge National Laboratory

AM **REGULAR** **Adapting Vision-Language Models for Multi-Modal In-Process Monitoring in Laser Powder Bed Fusion**
Anthony Garland[1]; [1]Sandia National Laboratories

AM **REGULAR** **Machine Learning and AI Methods for DED-Arc Applications - Added Value for Process Monitoring and Closed Loop Control**
Thomas Grünberger[1]; [1]AIT Austrian Institute of Technology

SESSION CHAIR (PM SESSION):
TBA

PM **INVITED** **AI-Based Approaches Towards Structural Materials Qualification**
Patxi Fernandez-Zelaia[1]; [1]Oak Ridge National Laboratory

PM **INVITED** **Leveraging Transfer Learning for Resource-Efficient Additive Manufacturing**
Bianca Maria Colosimo[1]; [1]Politecnico di Milano

PM **REGULAR** **Knowledge Transfer Across Heterogenous Additive Manufacturing Domain with Separable Interpolating Neural Network**
Sourav Saha[1]; [1]Virginia Tech

PM **REGULAR** **Qualification of a Large-Scale 3D Printing Process with Thermal Imaging: A Parametric Approach**
Kris Villez[1]; [1]Oak Ridge National Laboratory

PM **REGULAR** **AI-Enhanced Open-Source Metrology for Automatically Measuring Diverse Geometries in Additive Manufacturing**
Davis McGregor[1]; [1]University of Maryland

10TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM **REGULAR** **Build Set Up Data Exchange for Additive Manufacturing: Dyndrite API Python Libraries for CDEF-Compliant Build Management**
Brandon Cowart[1]; [1]Dyndrite

AM **REGULAR** **3MF as a Data Standard: Enabling Interoperability, Efficiency, and Innovation in Additive Manufacturing**
Duann Scott[1]; [1]3MF Consortium

AM **INVITED** **Digital Manufacturing: The Joining 4.0 Innovation Centre**
Darren Williams[1]; [1]Lancaster University

AM **INVITED** **Domain-Adaptive Generative Modeling for Multi-Modal Additive Manufacturing**
Hyunwoong Ko[1]; [1]Arizona State University

AM **INVITED** **AI to Make Printing Large Parts Easy**
Guy Brown[1]; [1]Aibuild

AM **REGULAR** **Building an Integrated Digital Thread using Knowledge Graphs and Generative AI to Accelerate Engineering and Design Outcomes**
Vedanth Srinivasan[1]; [1]Amazon Web Services

AM **REGULAR** **Implementing Generative AI to Evaluate Suitability of Parts for Additive Manufacturing (AM)**
Mariam Alnaqbi[1]; [1]Dubai Electricity & Water Authority

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ICAM 2025 TENTIVE PROGRAM AGENDA

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INDUSTRY 4.0

MODELING, SIMULATION, AND DIGITAL TWINS

06TH OCT 2025 (MON) – 08TH OCT 2025 (WED)

CO-ORGANIZERS:

Takashi Maeshima
Toyota Central R&D Labs, Japan

Christopher Robinson
Ansys, USA

James Sobotka
Southwest Research Institute, USA

Wei Xiong
University of Pittsburgh, USA

Nicholas Mulé
Boeing, USA

Shuai Shao
Auburn University, USA

Guglielmo Vastola
A*STAR - IHPC, Singapore

06TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM REGULAR — **Predicting Spatial Porosity Variation in Batch Metal Binder Jetting via In-Situ Stereovision Data Modeling**
An-Tsun Wei[1]; [1]HP

AM REGULAR — **Development of a Polymer AM Heuristic Model from In-Situ Data to Predict Thermal History throughout Printed Parts**
Callie Zawaski[1]; [1]Pennsylvania State University

AM INVITED — **Open Vector Format - A Lean, Multidimensional Production Data Pipeline for Industrial Additive Manufacturing**
Johannes Henrich Schleifenbaum[1]; [1]RWTH Aachen University - Aachen Center for Additive Manufacturing / Digital Additive Production

AM INVITED — **Role of Metal Plasticity at High Temperatures on Distortion Prediction for Powder Bed Additive Manufacturing**
Wei Zhang[1]; [1]Ohio State University

AM INVITED — **Numerical Simulation Approaches for Powder Bed Fusion of Metals And Alloys**
Matthias Markl[1]; [1]Friedrich-Alexander University of Erlangen-Nuremberg

AM REGULAR — **Comparative Evaluation of Thermal Simulation Methods for LPBF**
Ehsan Malekipour[1]; [1]Rowan University

AM REGULAR — **Thermal Simulation of Coaxial Wire-Based Laser Material Deposition with Enhanced Thermal Modeling for Process Optimization**
Thomas Schopphoven[1]; [1]Fraunhofer ILT

AM REGULAR — **Advanced 3D CFD Modeling of Full-Cycle Hot Isostatic Pressing Processes**
Yan Liu[1]; [1]Simtec Soft

SESSION CHAIR (PM SESSION):
TBA

PM INVITED — **Reliability-Based Damage Tolerance Analysis with Non-Destructive Evaluation Records**
Xueyong (Kevin) Qu[1]; Leland Shimizu[1]; [1]The Aerospace Corporation

PM INVITED — **Modeling Enhancements for Practical EBM Simulation**
Christopher Robinson[1]; [1]Ansys

PM INVITED — **Using Machine Learning Models to Improve Printability of Large LPBF Components**
Timo Heitmann[1]; Enrique Escobar[2]; [1]Siemens Energy; [2]Ansys

PM REGULAR — **Improving Part Accuracy with AI in Additive Manufacturing**
James Page[1]; [1]Stratasys

PM REGULAR — **Application of Three Dimensional Plasticity Modelling to Predict and Improve the Fatigue Behaviour of Additive Manufacturing Lattice Structures**
Joseba Gallastegui[1]; [1]ITP Aero

PM REGULAR — **Scanning Strategy-Induced Shifts in LPBF Process Windows: A Multi-Track Printability Map Approach**
Alaa Olleak[1]; [1]Ansys

07TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM REGULAR — **Twin4Twin - When Digital Twin Decide on Part Quality**
Sébastien Lani[1]; [1]Switzerland Innovation Park Biel/Bienne

AM REGULAR — **Digital Twin Application Towards In-Situ Quality Assurance at High Volume Production for LPBF AM**
Anjali Singhal[1]; [1]GE Aerospace

AM INVITED — **Model-Based Qualification of Metal 3D Printed Components**
Guglielmo Vastola[1]; [1]A*STAR - Institute of High Performance Computing

AM INVITED — **One Part and Life - OPAL: A Framework for Digital Twin Based Fatigue Life Prediction for Metal AM**
James Sobotka[1]; [1]Southwest Research Institute

AM INVITED — **Physics-Informed Surrogate Models for Efficient, Multi-Scale Digital Twins**
Eric Clough[1]; [1]HRL Laboratories

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AM **REGULAR**
Rapid, Autonomous and Shape-Agnostic Physics-Guided Thermal History Control to Improve Part Quality in Laser Powder Bed Fusion Additive Manufacturing
Prahalada Rao[1]; [1]Virginia Tech

AM **REGULAR**
Laser DED Manufacturing Digital Thread for Component Build or Repair
Jacob Hay[1]; [1]EWI

AM **REGULAR**
Revolutionizing Product Design-Make-Use: Integrating Sensor Data and Digital Twin Technology
Brian Jeong[1]; [1]Autodesk

AM **REGULAR**
Thermal Cross-Over Between Artifacts Due to Small Gap in LPBF Builds
Shuchi Khurana[1]; [1]Addiguru

SESSION CHAIR (PM SESSION):
TBA

PM **INVITED**
Providing a Rigorous Benchmark Measurement Foundation for Modeling-Informed Qualification and Certification of Metal AM Components
Lyle Levine[1]; [1]NIST

PM **INVITED**
Digital Twin Science for Understanding Solidification under Super-Thermal Field in Metal Powder Bed Fusion Additive Manufacturing
Yuichiro Koizumi[1]; [1]Osaka University

PM **INVITED**
Assembling the Building Blocks of Simulation-Based Digital Twins in an Additive Manufacturing Digital Factory
Gerald (Gerry) Knapp[1]; [1]Oak Ridge National Laboratory

PM **REGULAR**
Accelerating Decision-Making for Additive Manufacturing with Reusable Digital Twin Services
Lisha White[1]; [1]NIST

PM **REGULAR**
Calibration of the Inherent Strain Simulation for Predicting Deformation in Laser Powder Bed Fusion: Considerations and Practical Approaches
Hengfeng Gu[1]; [1]Ansys

PM **REGULAR**
Modeling of Temperature, Residual Stress, and Distortion during Collaborative Robot-Assisted Wire-Arc Deposition
Tuhin Mukherjee[1]; [1]Iowa State University

PM **REGULAR**
Enhancing Robotic Arm Operations with a Reinforcement Learning-Based Digital Twin Framework
Osama Aljarrah[1]; [1]Kettering University

08TH OCTOBER 2025
< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM **REGULAR**
Simulation of Feedforward-Controlled Melt Pool Dynamics in Multi-Track LPBF
Ehsan Malekipour[1]; [1]Rowan University

AM **REGULAR**
Melt Pool Behavior Modeling in LPBF using Finite Element Analysis
Antonios Kontsos[1]; [1]Rowan University

AM **INVITED**
Modeling and Simulation for Material Property Control in Metal Additive Manufacturing
Manyalibo Matthews[1]; [1]Lawrence Livermore National Laboratory

AM **INVITED**
High-Fidelity Modeling of Multi-Material Additive Manufacturing
Wentao Yan[1]; [1]National University of Singapore

AM **INVITED**
Accelerating Process Development with Simulation Automation and High Performance Computing
Allyce Jackman[1]; [1]Flow Science

AM **INVITED**
The Prediction Framework Combining CFD and FEM for Thermal Analysis of Part-Scale Fabrication using Laser Powder Bed Fusion
Takashi Maeshima[1]; [1]Toyota Central R&D Labs

AM **REGULAR**
Predictive Simulation in Laser Welding: Enhancing Weld Reliability and Mechanical Performance
Satish Kumar Meenakshisundaram[1]; [1]Ansys

AM **REGULAR**
Compressive Behaviour of Mechanically Compatible Lattice Structures Cancellous Bone Fabricated by Fused Filament Fabrication of Z-ABS Material
Outtas Toufik[1]; [1]University of Batna 2

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ICAM 2025 TENTIVE PROGRAM AGENDA

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INDUSTRY 4.0

ROBOTICS AND AUTOMATION

06TH OCT 2025 (MON)

CO-ORGANIZERS:

Eugene Demaitre
The Robot Report, USA

Michael Haas
FerRobotics, USA

Azadeh Haghighi
University of Illinois Chicago, USA

Kenneth Kimble
NIST, USA

06TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM **REGULAR**	**Understanding the Smart Factory Production Robotics Maturity Model** Tyler Bouchard[1]; [1]Flexxbotics
AM **REGULAR**	**Sensor-Driven Fusion Towards Automated Multi-Pass Robotic Arc Welding** Charalampos Loukas[1]; [1]University of Strathclyde
AM **INVITED**	**Multi Agent Robotics in Manufacturing** Andrzej Nycz[1]; [1]Oak Ridge National Laboratory
AM **INVITED**	**A Recipe for First Time Quality - Leveraging Scan-to-Path & AI/ML in a Metrology Driven Closed-Loop Robotic Process for High Mix / High Variation Parts** Jake Cipriano[1]; [1]Manufacturing Automation Systems
AM **INVITED**	**The Finish Is What Matters: Get ROI in Record Time with a Fast and Precise Material Removal and Finishing Process** Michael Haas[1]; [1]FerRobotics

SESSION CHAIR (PM SESSION):
TBA

PM **INVITED**	**Constrained Motion Planning for Reduced Jerk in Robotic Additive Manufacturing Systems** Farhad Imani[1]; [1]University of Connecticut
PM **REGULAR**	**Bridging the Gap in Robotic Surface Processing: Overcoming High Variability and Programming Complexity** Daryl Lim[1]; [1]Augmentus
PM **REGULAR**	**Design, Kinematics, and Workspace Analysis of a Swiveling Wire Robot for Material Extrusion Based Additive Manufacturing** Yash Gopal Mittal[1]; [1]Indian Institute of Technology Bombay

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INDUSTRY 4.0

SECURITY ASPECTS

07TH OCT 2025 (TUE)

CO-ORGANIZERS:

Chris Adkins
Materialise, USA

Narasimha Annapareddy
Texas A&M University, USA

Thomas Chittum
SoundThinking, USA

Darrick Kristich
Sedara, USA

William Ryan
Department of Justice (ATF), USA

Mark Yampolskiy
Auburn University, USA

07TH OCTOBER 2025

< VENUE: TBA >

SESSION CHAIR (AM SESSION):
TBA

AM REGULAR — **SSTP - Secure Streaming Transfer Protocol**
Barrett Veldsman[1]; [1]DEFEND3D

AM REGULAR — **A New Benchmark for Product Verification and Traceability within the Evolving Additive Manufacturing Landscape**
Shawn Zindroski[1]; Thomas "Trey" Cauley III[2]; [1]SNL Creative; [2]Iridia

AM INVITED — **How to Optimize Overall Equipment Efficiency (OEE) for Additive Manufacturing (AM) in a Connected and Threatened World**
Victor Gerdes[1]; Shlomi Marco[2]; [1]Stratasys; [2]RubyComm

AM INVITED — **Standardizing Trust: Identify3D Digital Manufacturing Asset Control for Distributed Additive Manufacturing**
Kyle Adriany[1, 2]; [1]Materialise; [2]Identify3D

AM INVITED — **Securing the Digital Thread: Meeting Customer Expectations and Regulatory Demands in Additive Manufacturing**
Chris Adkins[1]; [1]Materialise

AM INVITED — **Securing Process Design Information: Privacy-Preserving Melt Pool Data Acquisition and Sharing for Metal Additive Manufacturing**
Md Habibor Rahman[1]; Mohammed Shafae[2]; [1]University of Massachusetts Dartmouth; [2]University of Arizona

AM INVITED — **Quantum Threats to Manufacturing: Protecting Your IP Before It's Too Late**
James Regenor[1]; [1]VeriTX

SESSION CHAIR (PM SESSION):
TBA

PM INVITED — **Between Crime & Compliance: The Law of Making Firearms**
Thomas Chittum[1]; [1]Chittum Law

PM INVITED — **Preventing 3D-Printing of Machine Gun Conversion Devices**
Solomon Diamond[1]; [1]Dartmouth College

PM INVITED — **InspectAI: Non-Destructive Testing in the Era of Additive Manufacturing and Machine Learning**
Nikhil Gupta[1]; [1]New York University

PM INVITED — **Nadcap Developments in Counterfeit Mitigation**
Richard Freeman[1]; [1]Performance Review Institute

PM INVITED — **Revolutionizing Spare Parts Manufacturing with Secure Remote 3D Printing**
Terrence McGowan[1]; [1]Assembrix

PM INVITED — **Cybersecurity Compliance in the Age of Industry 4.0: Turning Risk into Resilience**
Jeff Roberts[1]; [1]principia/RAID Digital Security

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