Preliminary Program

Innovative Materials & Methods for Additive Manufacturing III (IM2AM)

January 11 - 15, 2026

Savannah, Georgia

Conference Chair:

Brett Compton, University of Tennessee at Knoxville, USA

Conference Co-Chairs:

Eric Eastwood, KCNSC, USA
Nikhil Gupta, New York University, USA
Daniel Schmidt, Luxembourg Institute of Technology
Joamin Gonzalez-Gutierrez, Luxembourg Institute of Technology
Pedro Cortes, University of Texas at El Paso, USA

Engineering Conferences International
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Sunday, January 11, 2026

17:00 – 18:00	Conference check-in
18:00 – 19:00	Welcome reception
19:00 – 21:00	Dinner and Social Hour

Monday, January 12, 2026

07:00 – 08:20	Breakfast
08:20 – 08:30	Conference Welcome – Conference Liaison and Chairs
	Session 1: Polymers Session Chair: TBA
08:30 – 09:00	**Coalescence model verification and investigation of unique feedstocks for polymer powder bed fusion** Camden Chatham, Savannah River National Laboratory, USA
09:00 – 09:20	**Tailor made polyolefin and polymer blend feedstocks for powder bed fusion** Mark Dadmun, University of Tennessee, USA
09:20 – 09:50	**Energetic mass mocks produced by powder bed fusion** C. Garrett Campbell, Sandia National Laboratories, USA
09:50 – 10:20	**Functional binders for bind jet additive manufacturing** Dustin Gilmer, University of Tennessee, USA
10:20 – 10:50	Coffee Break
	Session 2: Metals Session Chair: TBA
10:50 – 11:20	**Manufactuing process of tooling molds using an additive/subtracting L-DED platform** Pedro Cortes, The University of Texas at El Paso, USA
11:20 – 11:50	**Multi-modal detection of subsurface porosity for directed energy deposition** Eric MacDonald, The University of Texas at El Paso, USA
11:50 – 12:20	**Fusing in-situ data for AM qualification: A strategy to reduce mechanical testing** Yash Parikh, EOS of North America, Inc., USA
12:20 – 12:50	**In-situ thermomechanical processing in Waam stainless steels for microstructure control** Shramana Ghosh, ORNL, USA
12:50 – 14:20	Lunch
	Free time / *ad hoc* sessions
19:30 – 21:30	**Poster Session** and Social Hour

Tuesday, January 13, 2026

07:00 – 08:30	Breakfast
	Session 3: Process Development Session Chair: TBA
08:30 – 09:00	**Advancing direct ink writing through material formulation and multifunctional printhead design for complex architectures** Jochen Mueller, Johns Hopkins University, USA
09:00 – 09:30	**Accelerating direct ink write (DIW) design: Functional fillers, data optimization, and prediction** James Tata, Los Alamos National Lab, USA
09:30 – 10:00	**Quality-by-design for high solids material extrusion additive manufacturing** Blair Brettmann, Georgia Tech, USA
10:00 – 10:30	**Shaping the future of batteries with additive manufacturing** Alexis Maurel, The University of Texas at El Paso, USA
10:30 – 11:00	Coffee Break
	Session 4: Thermoplastic Session Chair: TBA
11:00 – 11:30	**Hot-end co-extrusion of multiple thermoplastics for programmable and tough composite additive manufacturing** Taemin Kim, KAIST, South Korea
11:30 – 11:50	**Elastic–plastic fracture analysis of multilayer 3D-printed PETG/PLA composites: Influence of layered architecture on fracture toughness and energy absorption** Chayan Kosambia, IIT Bombay, India
11:50 – 12:20	**Material characterization and process mapping for thermoplastics and thermosets in additive manufacturing using FGF and DIW technologies** Zac DiVencenzo, JuggerBot 3D, USA
12:20 – 12:50	**Mapping of interfacial heterogeneities in high-performance engineering thermoplastics and composites during additive manufacturing via synchrotron X-ray diffraction** Hilmar Koerner, Air Force Research Laboratory, USA
12:50 – 14:20	Lunch
	Excursion

Wednesday, January 14, 2026

07:00 – 08:30	Breakfast
	Session 5: Smart and Cellular Materials Session Chair: TBA
08:30 – 09:00	**Developing principles for process parameter optimization for additive manufacturing of thermosetting syntactic foams** Caleb Beckwith, New York University Tandon School of Engineering, USA
09:00 – 09:20	**LPBF lattice structures for impact energy absorption in automotive applications** Marcello Cabibbo, Marche Polytechnic University, Italy
09:20 – 09:40	**Flexible strain sensors with additive manufacturing hybrid graphene-based nanocomposites** Shani Ligati Schleifer, Ben Gurion University of the Negev, Israel
09:40 – 10:10	**Advancing dielectric polymer composites for high-performance thermal management via microstructure engineering and additive manufacturing** Randall Erb, Northeastern University, USA
10:10 – 10:40	Coffee Break
	Session 6: Novel Polymers and Characterization Session Chair: TBA
10:40 – 11:10	**Closing the loop: Waste-derived and biomass-filled circular materials for regenerative 3D-printed housing and sustainable additive manufacturing** Ramona Fayazfar, Western University, Canada
11:10 – 11:40	**Adapting vitrimers to additive manufacturing** Daniel F. Schmidt, Luxembourg Institute of Science and Technology
11:40 – 12:10	**Advanced metrology of thermoset composites in direct ink writing: Structural instability and residual stress** Stian Romberg, University of Tennessee, USA
12:10 – 12:30	**Multi-step frontal polymerization of fiber distributed thermoset composites for agile manufacturing** A. B. M. Tahidul Haque, University of Alabama, USA
	Lunch on your own and free time
	Session 7: High Throughput Screening Session Chair: TBA
17:30 – 18:00	**High-throughput compositional and processing mapping for additive manufacturing of extreme ceramics** Christopher Hansen, University of Massachusetts Lowell, USA
18:00 – 18:30	**Studying-Polymers-On a-Chip (SPOC): Automated, high-throughput screening of polymer membranes for diverse energy applications** Johanna Schwartz, Lawrence Livermore National Laboratory, USA
18:30 – 20:30	**Conference Banquet and Social Hour**

Thursday, January 15, 2026

07:00 – 08:30	Breakfast
	Session 8: Ceramics Session Chair: TBA
08:30 – 09:00	**Printing rocks: New materials and opportunities in ceramic AM** Luke Hanner, KCNSC, USA
09:00 – 09:30	**Accelerating, debinding and achieving large-scale additively manufactured ceramic structures** Amy Peterson, University of Massachusetts Lowell, USA
09:30 – 10:00	**Effect of carbon fiber addition and sintering temperature on thermal and mechanical properties of ZrB2 produced via material extrusion** Connor Wyckoff, AV, Inc, USA
10:00 – 10:30	**Material extrusion additive manufacturing of polymer-derived ceramic composites** Brett Compton, University of Tennessee, USA
10:30 – 11:00	Coffee Break
11:00 – 12:00	Conference Wrap-up / Next steps