

Tuesday, April 27 - Morning							
	Production Readiness	Foundry in a Box	Generative Design	Materials Development & Characterization Metals	AM Applications	3D Imaging & Scanning	Regulatory, Quality & Reimbursement Considerations for Medical Additive Manufacturing
10:15 AM - 10:40 AM	Industrial Manufacturers Discuss the Production Readiness of Additive Manufacturing Moderator: Brennon White General Motors Panelists: Stacey DeVecchio Stacey D Consulting Nick Mulé Boeing Additive Manufacturing Intelligence Center Adeola (Addy) Olubamiji, PhD Cummins, Inc.	Foundry in a Box Dave Rittmeyer Hoosier Pattern, Inc.	The Next Design Frontier: Generative Design Powered by AI and AM Andreas Vlahinos Advanced Engineering Solutions	3D Printing Refractory Metals for Extreme Environment Applications Youping Gao, PhD John Porter, PhD Castheon Inc.	Complexity and Performance Analysis for Additively Manufactured Manifold Microchannel Heat Exchangers Marwan Alsulami Seyed Niknam, PhD Western New England University	3D Scanning and Scanning Output Options Greg Groth Exact Metrology	FDA and 3D Printing of Medical Devices: Past, Present and Future Matthew DiPrima, PhD Food & Drug Administration
10:55 AM - 11:20 AM			Advancing Additive Manufacturing with Functional Generative Design Rani Richardson Dassault Systemes Shawn Ehrstein National Institute for Aviation Research	Effect of Microstructure on the Damage Evolution of Additively Manufactured Inconel 718 William Parks Southern Research Institute	Experiences in Additive Manufacturing Technologies for Aerospace Applications David Waller Ball Aerospace	Using High-Resolution X-ray Computed Tomography to Inspect Additive Manufactured Parts Andrew Ramsey Nikon Metrology Inc.	Deep Dive into the Similarities and Differences Between ISO 13485, FDA Registered and Having a Validated Manufacturing Process Dawn Lissy Empirical Technologies Corp.
11:35 AM - 12:00 PM			Hybrid AM: Ready to Use, Finish Machined Large Metal Parts Slade Gardner, PhD Big Metal Additive	Maturation and Implementation of Electron Beam Powder Bed Fusion (EB-PBF) of Ti-6Al-4V Peter Le Eric Fodran, PhD Northrop Grumman Aeronautics Systems	Army Additive Manufacturing Update for Autonomous Ground Vehicles Walker Brand US Army CCDC Ground Vehicle Systems Center	Empowering Quality Control & Inspection at Every Level with 3D Scanning Andrei Vakulenko Artec 3D Michael Raphael Direct Dimensions Inc.	CPT Codes, Billing & Reimbursement Andy Christensen University of Ottawa Jonathan Morris, MD Mayo Clinic
BREAK							

Tuesday, April 27 - Afternoon							
	Breakthrough to Manufacturing with AM – What You Need to Know	Foundry Processes & Applications	Simulation	Agile & Deployable Manufacturing	Material Development & Characterization - Polymer	Material Development & Characterization - Metals	Point of Care Manufacturing: 3D Printing in Hospitals
2:00 PM - 2:25 PM	Breakthrough to Manufacturing with AM - What You Need to Know Moderator: Todd Grimm, T.A. Grimm & Associates Panelists: Callie Zawaski, PhD Virginia Tech Nic Sabo GE Additive Clifton Wells Jerone Anderson General Motors	Producing Castings Using 3D Sand Printing Dave Rittmeyer Hoosier Pattern Inc.	Thermo-Mechanical Analysis, Process Simulation and Allowable Generation of Fused Deposition Modeling Printed ULTEM 9085 Harsh Baid, PhD AlphaSTAR Corporation	In-Field Additive Manufacturing – Fielding Advanced AM Capabilities Christian Norberg Svein Hjeltnvit Fieldmade AS	Additive Manufacturing of Multifunctional Polymer Networks Frank Gardea, PhD US CCDC Army Research Laboratory	Additively Manufactured A7050 Aluminum Using Laser-Powder Bed Fusion Kevin Chasse, PhD Northrop Grumman Mission Systems Crosby Owens Northrop Grumman Aeronautical Systems	In-Hospital 3D Printing Precision Anatomic Models for Orthopaedic Surgery: The Surgeon's Perspective Alexis Dang, MD Alan Dang, MD University of California, San Francisco
2:40 PM - 3:05 PM		Optimization of Cast Metal Parts Using Simulation and Additive Manufacturing Drew Tucker Altair	New & Emerging Trends in Design for Additive Simulation Brent Stucker, PhD ANSYS	Rapid Part Production to Support Austere End-User Needs Larry Holmes University of Delaware Steve Camilleri SPEE3D	3D Printed Polymer Blends Fabricated using Grayscale Digital Light Processing John Hergert University of Colorado, Boulder	Green Laser Technology Roland Spiegelhalter TRUMPF	Point of Care Manufacturing - The Veterans Health Administration Experience Beth Ripley, PhD Brian Strzelecki VA Puget Sound Healthcare
3:20 PM - 3:45 PM		Castings Roundtable Discussion Moderators: Tom Sorovetz FIAT Chrysler Automobiles Zayna Connor, PhD ZMC Consulting Inc.	Role of Simulation in Metals AM Part Processing Timothy Gornet University of Louisville	Rugged 3D Printing in Austere Environments Kenneth Church, PhD nScript, Inc.	Internally Transparent PMMA via Fused Filament Fabrication Mary Calvin Arkema Inc.	Development and Qualification of Additively Manufactured Launcher Parts Made of High-strength Aluminium Alloy André Dröse ArianeGroup GmbH	Patient-specific Anatomic Guides for Reconstructive Surgery through Point-of-Care Manufacturing Amy Alexander Mayo Clinic
3:50 PM - 4:15 PM							

Wednesday, April 28 - Morning								
	Materials Panel Discussion	Utilizing AM in Manufacturing	Hybrid Systems Applications	Printed Electronics	Polymer Post Processing	Remanufacturing of Legacy Parts	Process Monitoring, Control & Qualification	Breast Cancer & Joint Treatment Uses of Medical Additive Manufacturing
10:15 AM - 10:40 AM	<p>From Selection to Market</p> <p>Moderators: Eric Barnes Northrop Grumman LJ Holmes University of Delaware</p>	<p>Are You Using Additive the Best Way for Your Manufacturing Operations? CATCH UP!</p> <p>Moderators: Brennon White General Motors Carl Dekker Met-L-Flo</p>	<p>Breaking Barriers Between Additive & Mainstream Manufacturing with Hybrid Jason Jones, PhD Hybrid Manufacturing Technologies</p>	<p>Overmolded 3D Printed Wearable Electronics Carolyn Carradero Santiago Youngstown State University</p>	<p>Producing Customer-Ready Parts: Navigating the Leap from Prototyping to Production Jeff Mize PostProcess Technologies Inc.</p>	<p>Applications of Additive Manufacturing for Aerospace Spares and Repairs Dan Braley Boeing Global Services</p>	<p>Stepping Through the Additive Manufacturing Workflow for Part Qualification Mike Vasquez, PhD 3Degrees, LLC</p>	<p>The Use of NPJ-Enabled Ceramic AM in Treating Breast Cancer Dror Danai Xjet</p>
10:55 AM - 11:20 AM	<p>Panelists: Ellen Lee, PhD Ford Alonso Perralta Honeywell Amber Andreaco GE Additive</p>		<p>Democratizing Access with Generative Design and Hybrid Manufacturing Leanne Gluck Autodesk</p>	<p>A Direct-Write Structure Transfer Process Integrated with Polymer Molding Technologies Corey Stremelya, PhD Davide Masato, PhD University of Massachusetts Lowell</p>	<p>Making an Impact: Re-thinking Footwear with AM Michael Schorr, DyeMansion Craig DeMerit, Impact Footwear</p>		<p>Efficient Process Parameter Optimization using Machine Learning Annie Wang Senvol</p>	<p>Foot and Ankle Deformity Reconstruction using Computer-Aided Design Software and 3D Printing Technology Brandon Peel The Hospital for Sick Children</p>
11:35 AM - 12:00 PM			<p>Employing Metal Additive to Supercharge Your Injection Mold Tooling Thomas Houle Matsuura Machinery USA</p>	<p>Electromechanical Characterization of 3D-Printed Dielectric Material for Dielectric Electroactive Polymer Actuators David Gonzalez Purdue University</p>	<p>Performance SLS Printed Nylon 11 Parts Post-Processed Luis Folgar Additive Manufacturing Technologies Inc.</p>		<p>Consistent and Predictable Part Quality Enabled by In-situ Metrology Zack Murphree, PhD Velo3d Andrew Carter Stratasys Direct Manufacturing</p>	<p>3D Control of Properties in Single-Material Digital Stereolithography for the Treatment of Pediatric Physseal Injuries Camila Uzcatagui University of Colorado, Boulder</p>
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Wednesday, April 28 - Afternoon							
	Workflow Process Panel	Metals Post Processing	AM Applications - Tooling	AM Applications - Ceramics	New & Emerging in AM Metals	Business Considerations	Biofabrication & Orthotics for Medical Additive Manufacturing
2:00 PM - 2:25 PM	Design Workflow for Additive Manufacturing: Lessons Learned from the Trenches Moderator: Brian Levy Joe Gibbs Racing Panelists: Chris Collins Tangible Solutions Jennifer Coyne Wabtec Human Kahn Astro Mechanical Testing Laboratory	Dissolvable Supports Powder Bed Fusion-Printed Ti-6Al-4V and GRCo-42 Meredith Heilig, PhD Owen Hildreth, PhD InnovAMPP	Direct Part Printing is the Future, Advanced Automotive Tooling is the Now Jon Walker EOS North America	Additive Manufacturing of Ceramic Electromagnetic Devices via Material Jetting Mark Mirotznik, PhD University of Delaware	Coaxial Delivered Wire Based Directed Energy Deposition for Large Format Additive Applications Erik Miller Miller Electric	Bringing AM Production Floors "Online": How to Ensure Seamless In-depth Integration Between Both Worlds Dave Flynn Materialise	A Locking System for Additively Manufactured Implants: Strength Under Static and Dynamic Load Ralf Fischer Auburn University
2:40 PM - 3:05 PM		Effect of Hot Isostatic Pressing on the Performance of Heat Treated Ti-6Al-4V Alloys Manufactured via Laser Powder Bed Fusion Leandro Feitosa, PhD Sandvik Machining Solutions AB	Fiber Reinforced Mold Tools for More Shots with Tighter Tolerances Karlo Delos Reyes Fortify	Printed Ceramic Tooling Disrupting Automotive and Aerospace Composite Manufacturing Rick Lucas The ExOne Company	An Open-Architecture Multi-Laser Research Platform for Acceleration of Large-Scale Additive Manufacturing (ALSAM) Michael Tucker, PhD GE Research	Applications or Technology: What Will [it] Drive Production AM? Ken Burns Forecast 3D	Additive Manufacturing in Orthotics and Prosthetics Brent Wright LifeNabled Luis Baldez HP 3D Printing
3:20 PM - 3:45 PM		Cavitation Abrasive Surface Finishing and Peening: Fatigue Crack Resistance for Direct Metal Laser Sintering of Ti 6Al-4V Daniel Sanders, PhD University of Washington Mechanical Engineering Dept. Hitoshi Soyama, PhD Tohoku University	The Impact of Large Format Additive Manufacturing in Aerospace Tooling Sean Henson Ascent Aerospace		Large Scale Component Fabrication Using a Novel Laser Metal Deposition with Wire and Powder Process Yashwanth Kumar Bandari, PhD Meltio Inc.	Building a Better Business Case for Additive Manufacturing and Multi Jet Fusion Michael Rosplock Robert Sharpe Enerpac Tool Group	3D Printing Hand Orthotics at the Veteran's Health Administration (VHA) Brian Strzelecki VA Puget Sound Health Care System Mary Matthews-Brownell Veteran Healthcare Administration
3:50 PM - 4:05 PM							

Thursday, April 29 - Morning						
	AM in the DOD Panel Discussion	Post Processing Materials Improvements	AM Applications	Facilities & Operations	New & Emerging AM Processes - Polymers	Clinical Applications for Medical Additive Manufacturing
10:15 AM - 10:40 AM	<p>AM in the DoD Panel Discussion</p> <p>Moderator: Michael Nikodinovski US Army - CCDC - Ground Vehicle Systems Center</p> <p>Panelists: James Zunio US Army Combat Capabilities Development Command</p> <p>Joe Kolt US Army Combat Capabilities Development Command</p>	<p>The Cost of Metal AM Post Processing – a Case Study Bernhard Kerschbaum Rosler Metal Finishing USA LLC</p>	<p>How a 90 Year Old Company Turned to Metal 3D Printing to Accelerate Its Business Solutions, Resulting in Radical New Designs, Reduction of Emissions and Dramatic Cost Savings Jonah Myerberg Desktop Metal Jason Harjo John Zink Hamworthy Combusion</p>	<p>3D Printing Emissions and Their Impact on Health and Indoor Air Quality Qian Zhang, PhD Underwriters Laboratories Inc.</p>		<p>The Future and Benefits of Digital Dentistry: In-Office 3D Printing Perry Jones, DDS Mobile Imaging Solutions</p>
10:55 AM - 11:20 AM		<p>Chemical Post-Processing Advantages for High Temperature Metal Alloys on Additive Manufactured Parts Jim Ringer, Tech Met, Inc.</p>	<p>3D Printing of Structural Pedestrian Bridge Greg Costantino DSM Additive Manufacturing Maurice Kardas Royal HaskoningDHV</p>	<p>The Need for Power Quality During the Additive Process Patrick Gannon ABB Inc.</p>	<p>Software Driven Additive Manufacturing of Reliable High Performance Carbon Fiber Composite Structures at Scale Zachary August Arevo Inc.</p>	<p>Advances in Simulation in Head and Neck Surgery Using 3D-Printing Djordje Jaksic University of Michigan</p>
11:35 AM - 12:00 PM		<p>Surface Finishing of Additive Manufactured Nickel-based Superalloys Liquid Rocket Channel Nozzles Augustin Diaz, PhD Justin Michaud REM Surface Engineering</p>	<p>High Performance Racing: Shifting Additive Manufacturing into High Gear Pat Carey Stralaysys Robyn Lesh New York Yacht Club American Magic</p>	<p>Metal Powder Recycling Josh Lifshitz Globe Metal</p>	<p>3D Printing of Composites with Optimized Fiber Orientation Joshua Martin, PhD Fortify</p>	<p>Using Three Dimensional Printing to Manufacture Low Cost Task Trainers to Simulate Dental and Oral Surgery Applications Peter Liacouras, PhD Walter Reed Military Medical Center</p>
12:00 PM - 12:25 PM						<p>AM Application in Living Donor Liver Transplantation to Advance Realistic Simulation for Segmental Grafts Adoption and Practice Rami Shorti Intermountain Healthcare Inc.</p>