### Conference Day 1 - Tuesday, May 17

#### Keynote Presentation – Main Stage  8:30 AM
Barbara Humpton, President and CEO | Siemens Corporation

### Tracks

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Themes</th>
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<tbody>
<tr>
<td>10:00 AM</td>
<td><strong>INDUSTRIES</strong></td>
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<td><strong>PATENTS IN AM: SOUL CRUSHING OR EMPOWERING INNOVATION?</strong></td>
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<td><strong>DATA-DRIVEN QUALITY CONTROL OF LASER DIRECTED ENERGY DEPOSITION (DED)</strong></td>
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<td><strong>STRESS CORROSION CRACKING BEHAVIOR OF LPBF AISI100M</strong></td>
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<td><strong>MATERIALS &amp; PROCESSING</strong></td>
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<td><strong>MATERIALS DEVELOPMENT</strong></td>
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<td><strong>ADAPTIVE MANUFACTURING SCIENCE</strong></td>
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<td>11:00 AM</td>
<td><strong>WORKSHOP – Casting, Foundry In a Box</strong></td>
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<td><strong>AM ECOSYSTEM STRATEGY — CHOOSING AND EVALUATING THE RIGHT PARTNERS IN YOUR AM ECOSYSTEM</strong></td>
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<td><strong>AN ADDITIVE SOLUTION TO FULFILL CUSTOMER NEEDS</strong></td>
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<td><strong>EVALUATION OF PRINTED WAX PATTERN PATTERNS</strong></td>
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<td><strong>ADDITIVELY MANUFACTURED TOPOLOGY-OPTIMIZED REFLECTIVE OPTICS</strong></td>
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<td><strong>EXPANDED MANUFACTURING IMPROVING THE AUSTRALIAN ARMY’S SUPPLY CHAIN</strong></td>
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<td><strong>LUMINOUS VALUE OR LURKING RISKS? INTELLECTUAL PROPERTY OPPORTUNITIES AND THREATS</strong></td>
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<td><strong>LASER ADDITIVE MANUFACTURING OF HIGH REFLECTIVITY METALLIC MATERIALS USING PORE-FREE NON-EQUIAXED POWDERS</strong></td>
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<td><strong>NANOENGINEERING FOR ADDITIVE MANUFACTURING MATERIALS: CRUSHING THE FORMULATION IMPROVEMENT WALL</strong></td>
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#### Session Themes

- **MEDICAL & DENTAL SOLUTIONS**
- **AUTOMOTIVE APPLICATIONS**
- **AEROSPACE INSIGHTS**
- **DEFENSE**
- **INTELLECTUAL PROPERTY & SECURITY**
- **MATERIALS & PROCESSING**
- **MATERIALS DEVELOPMENT**

#### Session Details

- **Rationalization for the Utilization of Various AM Technologies in Healthcare Applications**
  - **Amy Alexander, MS**
  - **Biomedical Development and Applied Computational Engineering, Division of Engineering, Victoria Sears**
  - **Engineer, Anatomic Modeling Unit, Radiology, Mayo Clinic**

- **Additive Manufacturing Application Selection at General Motors**
  - **Brennon White, CAMF**
  - **AM Applications Engineer, General Motors**

- **An End-to-End Digital Thread to Accelerate Additive Adoption**
  - **Nicholas J. Mule**
  - **Director, Boeing Additive Manufacturing Intelligence Center, The Boeing Co.**

- **U.S. Army Expeditionary Additive Manufacturing at the Point of Need**
  - **Matthew Brauer**
  - **Lead General Engineer, Thomas Vretis**
  - **Mathematician, U.S. Army, DEVCOM-AC**

- **Insights into Industrial AM Application and Implementation Challenges & Strategies for the Defense Industry**
  - **Steve Fournier**
  - **Additive Manufacturing Department Manager, Micah Baxter**
  - **AM Manufacturing Engineer - FDM General Atomics Aeronautical Systems Inc.**

- **Advancement of U.S. Navy Sustainability Capabilities Through Solid-State Additive Manufacturing**
  - **Chase D. Cox, PhD**
  - **Chief Engineer, MELD Manufacturing Corporation**
  - **Stephen Cox**
  - **Director of Technology, US Navy**

- **Cybersecurity for Additive Manufacturing Enterprise Operations Project**
  - **Rolina Lara, PMP, CAPM**
  - **Sr. Project Manager, Federico Sciammarella, PhD**
  - **President & CTO, Dennis D. Harwig, PhD**
  - **Senior Technical Leader, EWI / OSU**

- **Evaluation of Printed Wax Pattern Molds**
  - **Thomas J. Mueller**
  - **President, Mueller Additive Manufacturing Solutions**
  - **Elvira Stesikova, PhD**
  - **Head of Technology, 3D Printing Solutions, BASF Forward AM**

- **Additively Manufactured Topology-Optimized Reflective Optics**
  - **Matthew E. Lynch, PhD**
  - **Senior Manager, Research Engineering, Raytheon Technologies Research Center**

- **Expansory Manufacturing Improving the Australian Army’s Supply Chain**
  - **Byron Kennedy**
  - **CEO, SPeedD**

- **Unrealized Value or Lurking Risks? Intellectual Property Opportunities and Threats in the Additive Manufacturing Industry**
  - **Gregory M. Stone, Esq.**
  - **Partner and Co-Chair, Technology & Intellectual Property Group, Whitefield, Taylor & Preston LLP**
  - **John Barnes**
  - **Founder, The Barnes Global Advisors LLC**
  - **Mihaela Vlasea, PhD**
  - **Assistant Professor, University of Waterloo**

- **Lasers Additive Manufacturing of High Reflectivity Metallic Materials Using Pore-Free Non-Equiaxed Powders**
  - **Olga Ivanova, PhD**
  - **Director of Technology, Machtanov**
  - **Steven Lowder**
  - **CEO, Machtanov**

- **NANOENGINEERING FOR ADDITIVE MANUFACTURING MATERIALS: CRUSHING THE FORMULATION IMPROVEMENT WALL**
  - **Olgan Ivanova, PhD**
  - **Director of Technology, Machtanov**
  - **Steven Lowder**
  - **CEO, Machtanov**

- **AM is Driving Innovations in Electric Vehicle Performance**
  - **David Pieck**
  - **3D Print Production Applications Development Manager, Aaron Delong**
  - **3D Print Production Applications Development Manager, HP Inc.**

- **The Tale of Two Cities – Additive Manufacturing for Aerospace vs Automotive**
  - **Bill Bihlmel, PhD**
  - **President, Aerolytics LLC**

- **Current State of Additive Manufacturing in Forensic Science**
  - **Corey W. Scott MSF.S.**
  - **Forensic Examiner, Federal Bureau of Investigation (FBI)**

- **Cybersecurity for Additive Manufacturing**
  - **Nicole Santos**
  - **Additive Manufacturing Engineer, BreakPoint Labs**

- **Optimization of Ti-6Al-4V Fused Filament Fabrication with Vacuumless Sintering**
  - **James Siegenthaler, PhD**
  - **Chief Engineer, SPEE3D**

- **Additive Manufacturing of Thermally Conductive Polymer for Lighting Fixtures**
  - **Shahab Zekiridehani, PhD**
  - **Technology Manager, Polymer and Nanocomposites, Stoic Scientist, Senior Global Technology Manager, Advanced Materials & Process Eaton Corporation**

#### Other Events

- **LUNCH BREAK + VISIT EXHIBITS**
  - **12 PM**
<table>
<thead>
<tr>
<th>TIME</th>
<th>SESSION THEMES</th>
<th>TRACKS</th>
<th>INDUSTRIES</th>
<th>FOCUS AREAS</th>
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<tr>
<td>2:00 PM</td>
<td>Scaled and Quality Production of 3D-Printed Hard Tissue Regenerative Devices</td>
<td>MEDICAL &amp; DENTAL SOLUTIONS</td>
<td>AUTOMOTIVE APPLICATIONS</td>
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<td>Co-Founder and Chief Technology Officer Dimension Innx Corp.</td>
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<td>Hybrid Manufacturing – An Emerging and Blended Approach to Advanced Manufacturing</td>
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<td>Brad Keselowski Owner Keselowski Advanced Manufacturing, Championship Driver, Co-owner RFK racing Keselowski Advanced Manufacturing</td>
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<td>Smart Additive Manufacturing: Advanced Automation Solutions for 3D Printing</td>
<td>AUTOMOTIVE APPLICATIONS</td>
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<td>Chinedum (&quot;Chi&quot;) Okwudire Associate Professor University of Michigan</td>
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<td>Samuel Thompson Chief Operating Officer Udendo</td>
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<td>Agile Manufacturing for Advanced Armaments Systems</td>
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<td>James Zuino, SSTM Senior Scientific Technical Manager - Future Concepts</td>
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<td>US Army Comcat Capabilities Development Command</td>
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<td>Dave Sabanosh PEEMS Lead / Mechanical Engineer</td>
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<td>US Army DEVCOM Armaments Center</td>
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<td>Why is Power Quality Critical During the Additive Process?</td>
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<td>Patrick Gannon Segment Leader ABB Inc</td>
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<td>Global 3D Printer Industry Buoyant for 2022?</td>
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<td>Chris Connery Global Head of Analysis CONTEXT</td>
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<td>Fiber Filled Photopolymers - How We Developed a 3D Printable Dielectric Polymer</td>
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<td>Radio Frequency Applications</td>
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<td>Phil Lambert Lead Customer Solutions Engineer Fordsy</td>
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<td>Trevor Polidore New Product Development Group Lead at Rogers Corporation</td>
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<td>Learning from Other Domains: Leveraging Video Game Development Experience in a PoC 3D Lab</td>
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<td>Parham Gholami Research Engineer</td>
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<td>Justin Ryan, PhD Research Engineer</td>
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<td>Rady Children's Hospital - San Diego</td>
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<td>Accelerate Adoption of 3D Printed Sand and Wax for Complex Metal Castings</td>
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<td>Jiten Shah President Product Development &amp; Analysis (PDA) LLC</td>
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<td>Innovative Heat Exchangers NATHENA</td>
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<td>Nick Estock Product Manager AddUp Inc.</td>
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<td>Wide Reaching Solid-State Structural Repairs Enabled by MELD</td>
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<td>Greg D. Hahn Graduate Research Assistant Virginia Tech</td>
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<td>A Closed-Loop Machine Learning and Compensation Framework for Accuracy Control in 3D Printing Arman Sabbaghi, PhD Associate Professor Webin Zhu PhD student Purdue University Department of Statistics</td>
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<td>Surviving Disruption in Additive Manufacturing – Demystifying the 3D-Printing Technology Question Wilderich Heising, PhD Partner and Associate Director Boston Consulting Group</td>
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<td>Digital-material Fabrication Using Additive Manufacturing</td>
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<td>Frank F. Liou, PhD Michael and Joyce Bytner Professor Missouri University of Science and Technology</td>
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<td>3:00 PM</td>
<td>Inspiration - A Review of Techniques Used to Print and Finish a Hydro-pneumatic Ventilator Christopher Howard MBA, PMP, CBET Founder, President Medical Sensor Systems, Inc Jonathan A. Poi Product Design Engineer</td>
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<td>Producing Castings Using 3D Sand Printing Dave Rittmeyer Customer Care and Additive Manufacturing Manager Hosier Pattern Inc</td>
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<td>Qualification of Additively Manufactured Aerospace Hardware Humna Khan CEO/Co-Founder Andre DeLeon Lab Operations Manager ASTRO Mechanical Testing Laboratory</td>
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<td>Liquid Deposition of a Dynamic Polymer Thermoset and Associated Nanocomposites Frank Gardea, PhD Research Engineer DEVCOM Army Research Laboratory</td>
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<td>AM Data Registration Standardization Shaw C. Feng, PhD Mechanical Engineer NIST Global Engineering Market Manager M Holland Company</td>
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<td>Successful Injection Molding Production Application Conversion in 3D Printing Halyanne Freedman Peanut Building Additive Manufacturing</td>
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<td>Additive Manufacturing of Smart Materials Ala Qattawi, PhD Assistant Professor University of Toledo</td>
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<td>An Argument for Dedicated Training in 3D Printing for Surgeons: Results of a National Needs Assessment and Call to Action Diana M. Oloya, MD Physician Michael F. Amendola, MD Physician / Division Chief of Vascular Surgery Central Virginia VA Health Care System</td>
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<td>Additive for Automotive: From hyper-customization to mass production Fadi Abro Director of Automotive Business Strategies Malini Dusey PhD Senior Applications, Engineer General Motors</td>
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<td>New Technology for NASA’s E-beam Metal Wire AM - Real-Time In-Situ Metrology and Closed Loop Control for In-space Manufacturing Eric Eisenbraun, PhD Associate Professor of Nanoscience Center for Nanoscale Science and Engineering SUNY Polytechnic Institute</td>
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<td>Printing Tanks Brandon Pender Associate Director for Ground Vehicle Materials Engineering US Army Ground Vehicle Systems Center Nanci Hardwick CEO MELD Manufacturing Corporation</td>
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<td>Process stability in metal AM: How to enable serial production in AM? Roland Spiegelhalder M.Sc. Product Manager AM</td>
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<td>Walking the Walks: Going All In on Metal Additive Adoption Jason B. Jones, PhD Co-founder &amp; CEO Hybrid Manufacturing Technologies</td>
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<td>Developing Automotive-Grade Metal Alloys for Additive Manufacturing Tyson Brown, PhD Lab Group Manager General Motors</td>
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rapid3devent.com
### Conference Day 2 - Wednesday, May 18

#### Keynote Presentation – Main Stage 8:30 AM

Brian Baughman, Manufacturing Chief Engineer | Honeywell Aerospace

<table>
<thead>
<tr>
<th>TRACKS</th>
<th>INDUSTRIES</th>
<th>FOCUS AREAS</th>
<th>R&amp;D</th>
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<tbody>
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<td>HEALTHCARE</td>
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<td>AEROSPACE INSIGHTS</td>
<td>NONMETAL APPLICATIONS</td>
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### Session Themes

#### 10:00 AM

- **Not Just Prototypes: 10 Applications for 3D Printing in Medical Device Development**
  - Katherine J. Stephenson, PhD
  - Founder & Principal Engineer, Dyad Engineering LLC

#### 10:30 AM

- **Utilizing AM for the Automotive Design Studio**
  - Stephanie Pearce
  - Additive Manufacturing Engineer, Rivan

- **Continuous Fiber Composite Additive Manufacturing**
  - David Ivanovitch
  - Sr. Principal Engineer, Manufacturing Technologies, Northrop Grumman Corp.

- **Revisiting Micromobility with KINDMUTE and the Formlabs Fuse 1**
  - Peter Deppe
  - Co-Founder & CEO, KINDMUTE

#### 11:00 AM

- **Patient Specific Neurovascular Inter and Intra-layer Transport**
  - Samuel Canning, PhD
  - Senior Lecturer, Griffith University

- **From the Racetrack to the Manufacturing Line: How to Get Beautiful, High-performance Parts in Serial Production (case study)**
  - Valin Dusey, PhD
  - Senior Applications Engineer, General Motors

- **How do We Prove that Additive Manufacturing Supports a Sustainable Future?**
  - Espen Siivertsen
  - CTO, Industrial Design Studio

#### 11:30 AM

- **3D Printing for Surgical Planning of Canine Oral and Maxillofacial Surgeries**
  - Yu-Hui Huang, MD, MS
  - Radiation Resident Physician, University of Minnesota

- **Metal-Ceramic Composite Lattice Structures for Lightweight, Energy Absorbing Applications**
  - Alan P. Druschitz, PhD
  - Associate Professor of Practice, Virginia Tech

- **Building the Circular Economy from Armor to Landing Gear**
  - Christopher P. Eonta
  - Founder, Molynows

### Lunch Break + Visit Exhibits 12 PM
## Conference Day 2 - Wednesday, May 18

### Thought Leadership Panel – Main Stage  12:30 PM
Let’s Make A Deal - IPOs, SPACs, Mergers and Acquisitions

<table>
<thead>
<tr>
<th>TRACKS</th>
<th>SESSION THEMES</th>
<th>INDUSTRIES</th>
<th>FOCUS AREAS</th>
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<td>CONSTRUCTION / ENERGY &amp; POWER</td>
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<td>TRAJECTORY</td>
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<td>TP 2:00 PM</td>
<td>Titanium Has Got Competition – Amorphous Metals for Medical Applications</td>
<td>Laura Kastenmayer Industry Manager Medical Technology, Additive Manufacturing TRUMPF</td>
<td>How Additive Manufacturing Enabled GM to Keep Popular Full-Size SUV Production Schedules on Track for Model Year 2022</td>
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<tr>
<td>2:00 PM</td>
<td>Laura Kastenmayer Industry Manager Medical Technology, Additive Manufacturing TRUMPF</td>
<td>How Additive Manufacturing Enabled GM to Keep Popular Full-Size SUV Production Schedules on Track for Model Year 2022</td>
<td>Applications in Tooling &amp; Prototyping for Large Format Additive Manufacturing</td>
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<td>2:30 PM</td>
<td>Outlook on Raw Material Quality Requirements for the AM Medical Industry</td>
<td>Pier Luc Paradis Material Project Manager AP&amp;C, a GE Additive company</td>
<td>Study of Infill Pattern and Backfill of Low Cost 3D Printed Polymer Tooling for Sheet Metal Forming Applications Dan Zhang, PhD Center for Design and Manufacturing Excellence The Ohio State University</td>
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<td>3:00 PM</td>
<td>Fabrication of 3D Microscale Organoid Cultures by Stereolithographic Printing of</td>
<td>Intelligent Digital Production Using the Divergent Adaptive Production System Michael T. Kenworthy Chief Technology Officer Divergent Technologies (Divergent 3D)</td>
<td>Improved Process Parameter Optimization Using Machine Learning Zach Simkin President</td>
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<td>3:00 PM</td>
<td>Covaletly Adaptable Sacrificial Molds John E. Hergert, PhD</td>
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<td>3:30 PM</td>
<td>Principal, Co-Director Boston Micro Fabrication Anthony Appling CEO RNDR Medical</td>
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Conference Day 3 – Thursday, May 19

Keynote Presentation – Main Stage – 8:30 AM
Caralynn Collins, MD, CEO | Dimension Ink

INDUSTRIES

MEDICAL & DENTAL SOLUTIONS

- The VA Experience of Using 3D Printing to Support Medical Device Manufacturer from the Hospital
  - Brian Strzelecki
  - Director of Quality and New Products
  - VA Ventures, The Veterans Health Administration

MATERIAL APPLICATIONS

- Using MELD to Improve and Maintain Bridge and Railway Infrastructure
  - Zackery McClelland
  - Research Mechanical Engineer
  - US Army Corps of Engineers - ERDC

- Nanci Hardwick
  - CEO
  - MELD Manufacturing Corporation

AEROSPACE INSIGHTS

- Additive Manufacturing in the Air Force Rapid Sustainment Office
  - Eddie Preston
  - Chief Engineer
  - USAF, RSO/AMPO

- Travis Grohosek
  - Material Engineer
  - RSO/AMPO

HEAVY INDUSTRY

- Paving the Way for Large-scale Steel 3D Printing for Use in Shipbuilding
  - Kolby M. Pearson
  - Engineer II
  - General Dynamics NASSCO

FOCUS AREAS

SOLUTIONS

- Why a 3D Printing Manufacturer Should Invest in DEI Today
  - Sarah Goehrke
  - Senior Director, Strategic Communications and Ecosystems

- Kristin Mulherin
  - General Manager, Powder Bed Products, President; Women in 3D Printing

ECOSYSTEM

- Optimal Mechanical and Corrosion-Resistant Properties of AM-Metal Components by Post-Processing Combinatory Methods
  - Agustin Diaz, PhD
  - Lead Additive Manufacturing

- Justin Michaud
  - CEO
  - REM Surface Engineering

R&D

- Accurate Modeling of 3D Selective Laser Melting for Large Parts
  - John F. Maguire, DPhil, DSc (UK)

- SFME, FRSC

- CTO

- Scientific Simulation Systems (S^3) Inc

Session Themes

10:00 AM

SESSION THEMES

- TRACKS

HEALTHCARE

- MEDICAL & DENTAL SOLUTIONS

- The VA Experience of Using 3D Printing to Support Medical Device Manufacturer from the Hospital
  - Brian Strzelecki
  - Director of Quality and New Products
  - VA Ventures, The Veterans Health Administration

WIDER INDUSTRIAL

- TRACKS

METAL APPLICATIONS

- Using MELD to Improve and Maintain Bridge and Railway Infrastructure
  - Zackery McClelland
  - Research Mechanical Engineer
  - US Army Corps of Engineers - ERDC

- Nanci Hardwick
  - CEO
  - MELD Manufacturing Corporation

AEROSPACE

- Additive Manufacturing in the Air Force Rapid Sustainment Office
  - Eddie Preston
  - Chief Engineer
  - USAF, RSO/AMPO

- Travis Grohosek
  - Material Engineer
  - RSO/AMPO

HEAVY INDUSTRY

- Paving the Way for Large-scale Steel 3D Printing for Use in Shipbuilding
  - Kolby M. Pearson
  - Engineer II
  - General Dynamics NASSCO

Focus Areas

10:30 AM

- TRACKS

SOLUTIONS

- Why a 3D Printing Manufacturer Should Invest in DEI Today
  - Sarah Goehrke
  - Senior Director, Strategic Communications and Ecosystems

- Kristin Mulherin
  - General Manager, Powder Bed Products, President; Women in 3D Printing

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SESSION THEMES

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Session Themes

Thought Leadership Panel – Main Stage 12:30 PM

If you don’t measure it how can you sell it? The Importance of 3D Scanning to AM