# Event Agendo

- Included with Your Expo Registration
- + Additional Registration Fee Required

# Keynotes, Thought Leadership Panels, Conference Presentations & more...

### Monday, September 13

#### Keynote Presentation

9:00 am - 10:00 am | Main Stage How AM is Disrupting the Aerospace Industry: Opportunities and Challenges on the Road Ahead Melissa Orme, PhD | The Boeing Co.

- **✓ Exhibits Open** | 10:00 am − 6:00 pm
- ✓ SME ZONE | 10:00 am 6:00 pm

#### ✓ Industry Partner Presentations

10:00 am - 6:00 pm | SME ZONE Theater

#### + Concurrent Conference Presentations

10:00 am - 10:30 am | Classrooms A. B. C. D

#### ✓ Thought Leadership Panel

 $10{:}30~am-11{:}45~am$  | Main Stage Breakthrough to Manufacturing with AM – What You Need to Know

#### + Concurrent Conference Presentations

11:00 am - 11:30 am | Classrooms A, B, C, D

#### ✓ Thought Leadership Panel

12:00 pm - 1:15 pm | Main Stage Industrial Manufacturers Discuss the Production Readiness of Additive Manufacturing

#### + Concurrent Conference Presentations

12:00 pm - 12:30 pm | Classrooms A, B, C, D

#### + Concurrent Conference Presentations

1:00 pm - 1:30 pm | Classrooms A, B, C, D

#### ✓ Thought Leadership Panel

1:30 pm – 2:45 pm | Main Stage Supply Chain Transformation: Driving an Agile and Networked Ecosystem

#### + Concurrent Conference Presentations

2:00 pm - 2:30 pm | Classrooms A. B. C. D

#### ✓ Thought Leadership Panel

 $3:00\ pm-4:15\ pm$  | Main Stage Additive Manufacturing in the Department of Defense

#### ✓ AM Awards Ceremony

3:30 pm - 4:30 pm | | SME ZONE Theater

#### + Concurrent Conference Presentations

3:00 pm - 3:30 pm | Classrooms A, B, C, D

#### + Concurrent Conference Presentations

4:00 pm - 4:30 pm | Classrooms A, B, C, D

**Networking Reception\*** 

## Tuesday, September 14

#### Kevnote Presentation

9:00 am - 10:00 am | Main Stage

An Industry 30+ Years in the Making

Terry Wohlers, Dr. h.c., FSME | Wohlers Associates, Inc.

- **✓ Exhibits Open** | 10:00 am − 5:00 pm
- ✓ **SME ZONE** | 10:00 am 5:00 pm

#### ✓ Industry Partner Presentations

10:00 am - 5:00 pm | SME ZONE Theater

#### + Concurrent Conference Presentations

10:00 am - 10:30 am | Classrooms A. B. C. D

#### ✓ Thought Leadership Panel

10:30 am – 11:45 am | Main Stage Materials: From Selection to Market

#### + Concurrent Conference Presentations

11:00 am - 11:30 am | Classrooms A, B, C, D

#### ✓ Thought Leadership Panel

 $12{:}00~\text{pm}-1{:}15~\text{pm}$  l Main Stage Design Workflow for Additive Manufacturing: Lessons Learned from the Trenches

#### + Concurrent Conference Presentations

12:00 pm - 12:30 pm | Classrooms A, B, C, D

#### + Concurrent Conference Presentations

1:00 pm - 1:30 pm | Classrooms A, B, C, D

#### ✓ Thought Leadership Panel

1:30 pm – 2:45 pm | Main Stage Hospital-Based 3D Printing: Better Patient Care Through In-House Manufacturing?

#### + Concurrent Conference Presentations

2:00 pm - 2:30 pm | Classrooms A. B. C. D

#### ✓ Thought Leadership Panel

3:00 pm – 4:15 pm | Main Stage Are You Using Additive the Best Way for Your Manufacturing Operations? CATCH UP!

#### + Concurrent Conference Presentations

3:00 pm - 3:30 pm | Classrooms A, B, C, D

Networking Reception\*

## Wednesday, September 15

#### Kevnote Presentation

9:00 am - 10:00 am | Main Stage How Technology is Changing Healthcare Mark Wehde | Mayo Clinic

- ✓ Exhibits Open | 10:00 am 3:00 pm
- ✓ **SME ZONE** | 10:00 am 3:00 pm

#### ✓ Industry Partner Presentations

10:00 am - 3:00 pm | SME ZONE Theater

#### + Concurrent Conference Presentations

10:00 am - 10:30 am | Classrooms A, B, C, D

#### ✓ Thought Leadership Panel

10:30 am – 11:45 am | Main Stage Castings Roundtable Discussion

#### + Concurrent Conference Presentations

11:00 am - 11:30 am | Classrooms A, B, C, D

#### ▼ Thought Leadership Panel

12:00 pm - 1:15 pm | Main Stage Being Agile Using Additive Manufacturing - When Does It Make Sense

#### + Concurrent Conference Presentations

12:00 pm - 12:30 pm | Classrooms A, B, C, D

#### ✓ Career Development Forum

12:30 pm - 1:30 pm | Classrooms A, B, C, D

#### + Concurrent Conference Presentations

1:00 pm - 1:30 pm | Classrooms A, B, C, D

#### ✓ Thought Leadership Panel

1:30 pm - 2:45 pm | Main Stage 3D Scanning - Why Do It and How

#### + Concurrent Conference Presentations

2:00 pm - 2:30 pm | Classrooms A, B, C, D

\*SME reserves the right to amend this program.

# Main Stage



# **Keynotes and Thought Leadership Panels**

RAPID + TCT Main Stage presentations feature industry-leading speakers highlighting real-world examples of Additive Manufacturing opportunities and challenges. You'll learn about how 3D technologies are transforming a wide variety of industries and what you can do to stay ahead of the competition.

Admission to Main Stage Presentations is Included with All Registrations.

## Day 1 - Monday, September 13

9:00 AM - 10:00 AM	KEYNOTE: How AM is Disrupting the Aerospace Industry: Opportunities and Challenges on the Road Ahead Melissa Orme, PhD, Vice President   The Boeing Co.				
	Breakthrough to Manufacturing with AM — What You Need to Know				
10:30 AM - 11:45 AM	Moderator: Todd Grimm   T.A. Grimm & Associates	Panelists: Callie Zawaski   Virginia Tech   Nic Sabo   GE Additive   Jerone Anderson   General Motors			
	Industrial Manufacturers Discuss the Production Readiness of Additive Manufacturing				
12:00 PM - 1:15 PM	Moderator: Brennon White   GM Additive Design & Manufacturing Group	Panelists: Stacey DelVecchio   Stacey DelVecch			
	Supply Chain Transformation: Driving an Agile and Ne	tworked Ecosystem			
1:30 PM - 2:45 PM	Moderator: Chandra Brown   MxD	Panelists: Rogerio Branco I Eaton Lou Rassey I Fast Radius Michelle Bockman I 3D Control Systems John Dulchinos I Jabil			
	Additive Manufacturing in the Department of Defense				
3:00 PM - 4:15 PM	Moderator: Michael Nikodinovski   U.S. Army	Panelists: James Zunino I U.S. Army Joe Kott I U.S. Army Debra Lilu I National Center for Manufacturing Sciences Kristin Holzworth, PhD I Marine Corps Systems Command			



# Day 2 - Tuesday, September 14

9:00 AM - 10:00 AM	KEYNOTE: An Industry 30+ Years in the Making Terry Wohlers, Dr. h.c., FSME, Principal Consultant and President I Wohlers Associates Inc.				
	Materials: From Selection to Market				
10:30 AM - 11:45 AM	Fric Rarnae   Northron Grimman Corn Amber Andreaco   GE Additive Ronald Adams   Director				
	Design Workflow for Additive Manufacturing: Lessons Learned from the Trenches				
12:00 PM - 1:15 PM	Moderator: Brian Levy   Joe Gibbs Racing	Panelists: Chris Collins   Tangible Solutions   Jennifer Coyne   Barnes Global Advisors   Humna Khan   Astro Mechanical Testing Laboratory			
	Hospital-Based 3D Printing: Better Patient Care Through In-House Manufacturing?				
1:30 PM - 2:45 PM	Moderator: Andy Christensen, FSME   University of Ottawa	Panelists:  Beth Ripley, MD, PhD   VA Puget Sound Health Care System and U.S. Department of Veterans Affairs  Peter Liacouras, PhD   Walter Reed National Military Medical Center  Jonathan Morris, MD   Mayo Clinic			
	Are You Using Additive the Best Way for Your Manufacturing Operations? CATCH UP!				
3:00 PM - 4:15 PM	Moderator: Carl Dekker   Met-L-Flo	Panelists: Brennon White   GM Additive Design & Manufacturing Group Dan Braley, CAM-T   Boeing Global Services			

# Day 3 - Wednesday, September 15

9:00 AM - 10:00 AM	KEYNOTE: How Technology is Changing Healthcare  Mark Wehde, Chair, Mayo Clinic Engineering   Mayo Clinic				
	Castings Roundtable Discussion				
10:30 AM - 11:45 AM	Participants: Thomas Sorovetz   Stellantis N.V. Zayna Connor, PhD   ZMC Consulting Inc.				
	Being Agile Using Additive Manufacturing — When Does It Make Sense				
12:00 PM - 1:15 PM	Moderator: Kevin Ayers   AM Consultant	Panelists: Tim DeRosett   Jabil   Dan Brunermer   The ExOne Co. Dave Rittmeyer   Hoosier Pattern Inc.			
	3D Scanning — Why Do It and How				
1:30 PM - 2:45 PM	Great Croth L Evact Metrology Andrew Pamery I Nikon Metrology Inc				



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## RAPID + TCT Conference Advisors:

Ted Anderson, Industrialization Leader, Additive Technologies, GE Additive

Kevin Ayers, AM Consultant

Eric Barnes, Northrop Grumman Fellow, Northrop Grumman Corp.

Dan Braley, CAM-T, Associate Technical Fellow, Boeing Global Services

Rex Brown, Principal Mechanical Engineer, Honeywell (Retired)

Zayna Connor, PhD, Independent Consultant, ZMC Consulting Inc.

April Cooke, PhD, Senior Process Engineer, Seurat Technologies Inc.

**Denis Cormier, PhD,** Earl W. Brinkman Professor, Rochester Institute of Technology

Vesna Cota, Founder, VMMI

Carl Dekker, President, Met-L-Flo

Abbey Delaney, Global Field Marketing Manager, BigRep America Inc.

**Eric Fodran, PhD, S**enior Staff Engineer, Additive Manufacturing & Emerging Programs, Northrop Grumman Corp.

Boris Fritz, Adjunct Professor, University of Southern California

Eliana Fu, PhD, Industry Manager - Aerospace & Medical, TRUMPF Inc.

**Giles Gaskell,** Commercial Business Manager for Structured Light Scanning, Hexagon Manufacturing Intelligence

Charles Gilman, Mechanical Engineer, Gilman Analytics

Todd Grimm, President, T.A. Grimm & Associates

Edward Herderick, PhD, Director, Additive Manufacturing, The Ohio State University

**Larry "LJ" Holmes Jr.,** Assistant Director, Digital Design and Additive Manufacturing, University of Delaware

Sheku Kamara, Dean of Applied Research, Milwaukee School of Engineering

David Leigh, CTO for Additive Manufacturing, 3D Systems Corp.

Brian Levy, Aerodynamics Engineer, Joe Gibbs Racing

Michael Nikodinovski, Manufacturing Engineer, US Army

Michael Raphael, CEO & President, Direct Dimensions Inc.

**Brandon Ribic, PhD,** Technology Director, National Center for Defense Manufacturing & Machining

Thomas Sorovetz, Fastener Engineer, Stellantis N.V.

**Brennon White,** Product Application Engineer (Interiors), GM Additive Design & Manufacturing Group

James Woodcock, VP, Content, Strategy & Partnerships, TCT Rapid News

## **3 KEY THEMES**

As you explore RAPID + TCT's comprehensive education lineup, you'll notice prevalent themes centered around Evaluation, Adoption and Optimization. When you attend, you'll hear real-life examples of how industry leaders are implementing Additive Manufacturing and review case studies on how the technology is transforming traditional manufacturing.



# **EVALUATION**

If you're an industry newcomer assessing the capabilities and limitations of AM and 3D printing, are seeking AM guidance or if you are in process of evaluating if AM is a viable solution for your business strategies, join presentations focused on Evaluation to help you start developing your own comprehensive technology roadmap.



### **ADOPTION**

If you have already invested in AM and want to discover more ways to leverage the technology within your organizations, join Adoption presentations designed to provide you with an in-depth understanding of how industries have successfully implemented the technology to drive innovation and business growth.



## **OPTIMIZATION**

If you have advanced knowledge of the market and are ready to take the next step in your AM journey, Optimization presentations will offer how to maximize the performance, efficiency, and profitability of mature AM installations, and help identify new business models by showcasing new and emerging technologies, methods, materials, continuous improvement of AM applications.



Matt Sand I 3DEO Inc.





9:00 AM - 10:00 AM Main Stage	KEYNOTE: How AM is Disrupting the Aerospace Industry: Opportunities and Challenges on the Road Ahead  Melissa Orme, PhD, Vice President   The Boeing Co.					
	Classroom A	Classroom B	Classroom C	Classroom D - Medical		
10:00 AM - 10:30 AM Wohlers Associates Inc.		EVALUATION Empowering Quality Control & Inspection at Every Level with 3D Scanning Giles Gaskell Hexagon Manufacturing Intelligence	OPTIMIZATION The Next Design Frontier: Generative Design Powered by Al and AM Andreas Vlahinos Advanced Engineering Solutions	OPTIMIZATION  AM Application in Living Donor  Liver Transplantation to Advance Realistic  Simulation for Segmental Grafts  Adoption and Practice  Rami Shorti, PhD I Intermountain Healthcare Inc.		
11:00 AM - 11:30 AM	ADOPTION Chemical Post-Processing Advantages for High-Temperature Metal Alloys on Additive Manufactured Parts Jim Ringer I Tech Met Inc.	ADOPTION Direct Part Printing is the Future, Advanced Automotive Tooling is the Now Jon Walker   EOS North America	rect Part Printing is the Future, Advanced Automotive Tooling is the Now  Experiences in Additive Manufacturing Technologies for Aerospace Applications			
12:00 PM - 12:30 PM	OPTIMIZATION  Effect of Microstructure on the Damage Evolution of Additively Manufactured Inconel 718  William Parks I Southern Research Institute	ADOPTION Hybrid AM: Ready to Use, Finish Machined Large Metal Parts Slade Gardner, PhD Big Metal Additive	rid AM: Ready to Use, Finish Machined Large Metal Parts  Slade Gardner, PhD  Making an Impact: The Perfect Fitz: Re- Thinking Kid's Customized Eyewear with AM Michael Schorr   DyeMansion			
1:00 PM - 1:30 PM	ADOPTION  Maturation and Implementation of Electron Beam Powder Bed Fusion Peter Le & Eric Fodran, PhD Northrop Grumman Aeronautical Systems	OPTIMIZATION Performance SLS Printed Nylon 11 Parts Post-Processed Luis Folgar Additive Manufacturing Technologies Inc.	ADOPTION Producing Castings Using 3D Sand Printing Dave Rittmeyer Hoosier Pattern Inc.	ADOPTION  Lessons from Building Three Point-of-Care 30 Printing (and Extended Reality) Programs  Justin Ryan, PhD I Rady Children's Hospital-San Dieg Christopher Howard I Medical Sensor Systems		
2:00 PM - 2:30 PM	ADOPTION  Producing Customer-Ready Parts: Navigating the Leap from Prototyping to Production  Jeff Mize  PostProcess Technologies Inc.	OPTIMIZATION Using High-Resolution X-ray Computed Tomography to Inspect Additive Manufactured Parts Andrew Ramsey   Nikon Metrology Inc.	OPTIMIZATION Printed Ceramic Tooling Disrupting Automotive and Aerospace Composite Manufacturing Rick Lucas   The ExOne Co.	ADOPTION A Locking System for Additively Manufactured Implants: Strength Under Static and Dynamic Load Ralf Fischer I Auburn University		
3:00 PM - 3:30 PM	OPTIMIZATION How to Scale 3D Printing with Distributed Manufacturing Vishal Singh   Link3D	OPTIMIZATION  An Open-Architecture Multi-Laser Research Platform for Acceleration of Large-Scale Additive Manufacturing (ALSAM)  Christopher Immer I GE Research	OPTIMIZATION Smart Baseplate for Metal Additive Manufacturing Mark Norfolk   Fabrasonic	OPTIMIZATION  3D-Painting and 3D-Painted Hyperelastic Bone for Maxillofacial Repair and Reconstruction Adam Jakus, PhD I Dimension Inx Corp.		
4:00 PM - 4:30 PM	EVALUATION Building a Better Business Case for Additive Manufacturing and Multi-Jet Fusion	ADOPTION 3D Printing Refractory Metals for Extreme Environment Applications	ADOPTION  The 5 Cost Drivers of Metal AM Stop Flying Blind and Build a Lasting Business Case			

Youping Gao, PhD & Melissa Benson I Castheon Inc.

4:30 PM

Michael Rosplock | Enerpac

## **3 KEY THEMES:**

# Conference At-A-Glance Day 2 - Tuesday, September 14







9:00 AM - 10:00 AM Main Stage	KEYNOTE: An Industry 30+ Years in the Making Terry Wohlers, Dr. h.c., FSME, Principal Consultant and President   Wohlers Associates, Inc.						
	Classroom A	Classroom B	Classroom C	Classroom D - Medical			
10:00 AM - 10:30 AM	ADOPTION Applications of Additive Manufacturing for Aerospace Spares and Repairs Dan Braley, CAM-T   Boeing Global Services	OPTIMIZATION Additively Manufactured A7050 Aluminum using Laser-Powder Bed Fusion Crosby Owens Northrop Grumman Aeronautical Systems	OPTIMIZATION Thermo-Mechanical Analysis, Process Simulation and Allowable Generation of Fused Deposition Modeling Printed ULTEM 9085 Harsh Baid, PhD I AlphaSTAR Corp.	ADOPTION The Use of NPJ-Enabled Ceramic AM in Treating Breast Cancer Dror Danai I Xjet			
11:00 AM - 11:30 AM	EVALUATION Breaking Barriers Between Additive and Mainstream Manufacturing with Hybrid Jason Jones, PhD   Hybrid Manufacturing Technologies	OPTIMIZATION  3D Printed Polymer Blends Fabricated using Grayscale Digital Light Processing  John Hergert, PhD I University of Colorado Boulder	OPTIMIZATION  Advances in Simulation in Head and Neck Surgery Using 3D-Printing Djordje Jaksic I University of Michigan				
12:00 PM - 12:30 PM	ADOPTION Surface Finishing of Additive Manufactured Nickel-based Superalloys Liquid Rocket Channel Nozzles Agustin Diaz, PhD Justin Michaud REM Surface Engineering	OPTIMIZATION  Additive Manufacturing of High-Value DLP Composites for Tunable Mechanical, Thermal and Electrical Performance  Joshua Martin, PhD  Fortify	EVALUATION  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 Combustion	OPTIMIZATION  Additive Manufacturing Solutions in Orthotics and Prosthetics Brent Wright I LifeNabled Justin Hopkins I HP			
1:00 PM - 1:30 PM	EVALUATION The Cost of Metal AM Post Processing — A Case Study Bernhard Kerschbaum Rosler Metal Finishing USA LLC	OPTIMIZATION  Additive Manufacturing of Multifunctional Polymer Networks Frank Gardea, PhD  US CCDC Army Research Laboratory	ADOPTION The Impact of Large Format Additive Manufacturing in Aerospace Tooling Sean Henson   Ascent Aerospace	ADOPTION  Patient-specific Anatomic Guides for Reconstructive Surgery through Point-of-Care Manufacturing Amy Alexander   Mayo Clinic			
2:00 PM - 2:30 PM	EVALUATION  Applications or Technology: What Will Drive Production AM?  Ken Burns Forecast 3D	ADOPTION Employing Metal Additive to Supercharge Your Injection Mold Tooling Thomas Houle Matsuura Machinery USA, LUMEX NA	ADOPTION  3D Printing of Structural Pedestrian Bridge  Greg Costantino   Covestro  Maurice Kardas  Royal Haskoning DHV	OPTIMIZATION  3D-Painting and 3D-Painted Hyperelastic Bone for Maxillofacial Repair and Reconstruction  Adam E. Jakus, PhD   Dimension Inx Corp.			
3:00 PM - 3:30 PM	OPTIMIZATION  Factory in a Cell: Hybrid Manufacturing of Continuous Fiber Reinforced Composites  Andrew Purvis & Ryan Bischoff Electroimpact Inc.	ADOPTION  Large Scale Component Fabrication Using a  Novel Laser Metal Deposition with Wire  and Powder Process  Yashwanth Kumar Bandari, PhD   Meltio Inc.	OPTIMIZATION Optimization of Cast Metal Parts Using Simulation and Additive Manufacturing Drew Tucker   Altair				
4:00 PM -	OPTIMIZATION  Radiation Curable Resin for Production of  Static Dissinative Parts						

4:30 PM

**Static Dissipative Parts** 

Olga "Dr.O" Ivanova Mechnano

## **3 KEY THEMES:**







9:00 AM - 10:00 AM Main Stage	KEYNOTE: How Technology is Changing Healthcare Mark Wehde, Chair, Mayo Clinic Engineering   Mayo Clinic					
	Classroom A	Classroom A Classroom B		Classroom D - Medical		
10:00 AM - 10:30 AM	OPTIMIZATION  Electromechanical Characterization of 3D-Printed Dielectric Material for Dielectric Electroactive Polymer Actuators  David Gonzalez  Purdue University	OPTIMIZATION The Need for Power Quality During the Additive Process  Patrick Gannon  ABB Inc.	ADOPTION Fiber Reinforced Mold Tools for More Shots with Tighter Tolerances Karlo Delos Reyes Fortify	OPTIMIZATION  3D Control of Properties in Single-Material Digital Stereolithography for the Treatment of Pediatric Physeal Injuries Camila Uzcategui University of Colorado Boulder		
11:00 AM - 11:30 AM	ADOPTION Rugged 3D Printing in Austere Environments Kenneth Church, PhD nScrypt Inc.	OPTIMIZATION Additive Manufacturing of Ceramic Electromagnetic Device via Material Jetting Mark Mirotznik, PhD University of Delaware	OPTIMIZATION Stepping Through the Additive Manufacturing Workflow for Part Qualification Mike Vasquez, PhD 3Degrees LLC	ADOPTION 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		
12:00 PM - 12:30 PM	OPTIMIZATION Metal Powder Recycling Josh Lifshitz Globe Metal	EVALUATION 3D Scanning and Scanning Output Options Greg Groth Exact Metrology	ADOPTION Army Additive Manufacturing Update for Autonomous Ground Vehicles Walker Brand US Army CCDC Ground Vehicle Systems Center	OPTIMIZATION  Deep Dive into the Similarities and Differences Between ISO 13485, FDA Registered and Having a Validated Manufacturing Process  Dawn Lissy Empirical Technologies Corp.		
1:00 PM - 1:30 PM	OPTIMIZATION  3D Printing Emissions and Their Impact on Health and Indoor Air Quality Qian Zhang, PhD Underwriters Laboratories Inc.	OPTIMIZATION  Advancing Additive Manufacturing with Functional Generative Design  Rani Richardson Colin Swearingen Dassault Systèmes	OPTIMIZATION Efficient Process Parameter Optimization using Machine Learning Annie Wang Senvol	ADOPTION  3D Printing of Digital Foams for Lightweighting Applications Using FRESH Printing  Adam Feinberg Chris Sandini FluidForm		
2:00 PM - 2:30 PM	OPTIMIZATION Collaborating to Apply the Self-Terminating Etching Process to an Inconel 718 Component Meredith Heilig, PhD & Owen Hildreth, PhD AMPP Technologies	OPTIMIZATION  3D & 4D Characterization of Powder Feedstock for Quality Control in Additive Manufacturing Pradeep Bhattad ZEISS Industrial Quality Solutions	OPTIMIZATION Bringing AM Production Floors "Online": How to Ensure Seamless In-depth Integration Between Both Worlds  Dave Flynn   Materialise			

# Medical AM Conference Track

# SPECIAL OFFER! Purchase the Medical AM Track Pass for \$295 with promo code RP21C0NF100V!

	Day 1 - Classroom D Day 2 - Classroom D		Day 3 - Classroom D		
10:00 AM - 10:30 AM	AM Application in Living Donor Liver Transplantation to Advance Realistic Simulation for Segmental Grafts Adoption and Practice Rami Shorti, PhD   Intermountain Healthcare Inc.	10:00 AM - 10:30 AM	The Use of NPJ-Enabled Ceramic AM in Treating Breast Cancer Dror Danai I Xjet	10:00 AM - 10:30 AM	3D Control of Properties in Single-Material Digital Stereolithography for the Treatment of Pediatric Physeal Injuries Camila Uzcategui University of Colorado Boulder
11:00 AM - 11:30 AM	CPT Codes, Billing & Reimbursement Andy Christensen, FSME   University of Ottawa Jonathan Morris, MD   Mayo Clinic	11:00 AM - 11:30 AM	Advances in Simulation in Head and Neck Surgery Using 3D-Printing Djordje Jaksic I University of Michigan	11:00 AM - 11:30 AM	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
12:00 PM - 12:30 PM	Point of Care Manufacturing — The Veterans Health Administration Experience Beth Ripley, MD, PhD & Brian Strzelecki VA Puget Sound Healthcare	12:00 PM - 12:30 PM	Additive Manufacturing Solutions in Orthotics and Prosthetics Brent Wright   LifeNabled Justin Hopkins   HP	12:00 PM - 12:30 PM	Deep Dive into the Similarities and Differences Between ISO 13485, FDA Registered and Having a Validated Manufacturing Process  Dawn Lissy Empirical Technologies Corp.
1:00 PM - 1:30 PM	Lessons from Building Three Point-of-Care 3D Printing (and Extended Reality) Programs  Justin Ryan, PhD I Rady Children's Hospital-San Diego Christopher Howard I Medical Sensor Systems	1:00 PM - 1:30 PM	Patient-specific Anatomic Guides for Reconstructive Surgery through Point-of-Care Manufacturing Amy Alexander   Mayo Clinic	1:00 PM - 1:30 PM	3D Printing of Digital Foams for Lightweighting Applications Using FRESH Printing Adam Feinberg Chris Sandini FluidForm

3D-Painting and 3D-Painted Hyperelastic Bone® for Maxillofacial Repair and Reconstruction

Adam Jakus, PhD I Dimension Inx Corp.

A Locking System for Additively Manufactured

Implants: Strength Under Static and Dynamic Load

Ralf Fischer | Auburn University

2:00 PM -

2:30 PM

3:00 PM -

3:30 PM

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