AeroDef Manufacturing 2023 | Tuesday, November 7, 2023

Exhibits Open: 10:00 AM - 5:00 PM

10:15-11:50	**Additive Manufacturing Applications** **Room: Seaside** **Chair: Dan Sanders**	**Composites & Advanced Materials** **Room: Seaside** **Chair: Robert Harper** **Composites Community WFD Subcommittee**	**Panel: Back-to-Basics: Whats Driving the Digital Supply Chain** **Room: Seaside** **Chair:**	**Automation, Assembly and Robotics** **Room: Seaside** **Chair:**
10:15-10:40	Additive Manufacturing Flight Parts - High Level Overview of FAA Qualification Requirements Daniel Searle, MBA Aerospace Account Executive Stratasys Direct	Long Fiber Injection for Aerospace Applications Robert Koon Fellow Lockheed Martin Aeronautics	Panel: Back to Basics - What is Driving the Digital Supply Chain	Robot for 787 Center Bushing Installation Wen Jiang Sr. Control Engineer The Boeing Company
10:50-11:15	Boeing Additive Manufacturing Applications in Aviation Anna Tomzynska Boeing Additive Manufacturing Chief Engineer The Boeing Company	Unlocking Scale and Agility in Manufacturing of Aerostructures Through Roboforming Babak Raeisinia Co-Founder, Head of Applications & Partnerships Machina Labs, Inc.		Systems Engineering Approach to Production Line Automation Geoff Karpa Applications Engineer Staff Lockheed Martin Aeronautics
11:25-11:50	High Temperature Non-Metallic Additive Manufacturing Overview and Case Studies Krysten Minnici, PhD Scientist Arkema Inc.	Sandwich Composites with Acoustic, Thermal and Mechanical Performance Nandika DSouza Regents Professor University of North Texas		Investing in a Flexible Automation System? Listen to Success Stories of Aerospace Manufacturers Who Have Taken the Leap Nathan Turner President Fastems LLC

12:00 - 2:00 PM Lunch Break/Visit the Exhibits

2:00-4:10	**Next Gen Additive Manufacturing** **Room: Seaside** **Chair: Eric Barnes**	**Automate Composites Manufacturing** **Room: Seaside** **Chair: Doug Decker** **Composites Community WFD Subcommittee**	**Supply Chain Alternatives Using Additive Manufacturing** **Room: Seaside** **Chair: Justin Rivera**	**Featured Speakers** **Room: Seaside** **Chair:**
2:00-2:25	Rapid and Agile Production of UAVs with Additive Manufacturing Javier Ramos EVP R&D Inkbit	MTorres Tape Layers. Is ATL market death? is AFP the new king? Manu Motilva Chief Growth Officer Mtorres	Advancements in Large Scale Additive Manufacturing Technologies for Aerospace Structural Spares Daniel J. Braley, FSME, CAM-T Associate Technical Fellow - Additive Manufacturing The Boeing Company	
2:35-3:00	Low-Cost Manufacturing Techniques Enabling Design for Manufacture of Attractable Aircraft Primary Structure Thomas W. Margraf, Jr. President Spintech Holdings, Inc	Design for Repairability and Maintainability Brian Nasralla, PE, ATF ATF Liaison Engineer The Boeing Company	Building Distributed Supply Chains for Mission-critical Aerospace Parts With Additive Manufacturing Brent Hansen Technical Business Development Manager Velo3D	
3:10-3:35	A Composite Based Additive Manufacturing (CBAM) Materials & Process Jeff E. DeGrange, FSME Chief Commercial Officer Impossible Objects Inc	Automated Composites Manufacturing Ben Ferrell Senior Engineer / Composites Research and Development Spirit Aerosystems	How Additive Manufacturing Mitigates Supply Chain Insecurities in Aerospace Eliana Fu, PhD Industry Manager: Aerospace & Medical TRUMPF Inc.	
3:45-4:10	Introducing Vertical Soldering Technology Stephen Redington, PE Senior Engineer US Army	Leveraging AI Solutions to Ramp Up Production and Overcome Industry Challenges Avner Ben-Bassat President and CEO Plataine	Have you lost your edge? Your Competitors produced over 135K flight rated parts last year with Additive Manufacturing Daniel Searle, MBA Aerospace Account Executive Stratasys Direct	

AeroDef Manufacturing 2023 | Wednesday, November 8, 2023

Exhibits Open: 10:00 AM - 5:00 PM

10:15-11:50	**Additive Manufacturing for Hypersonics** **Room: Seaside** **Chair: Dan Braley**	**Next Generation Tooling Technologies & Applications** **Room: Seaside** **Chair: Dan Sanders**	**Automated Composites** **Waruna Seneviratne** **Room: Seaside** **Chair:** **Composites Community WFD Subcommittee**	**How Not to Fail in Your Digital Transformation** **Room: Seaside** **Chair:**
10:15-10:40	Functional Benefits of Additively Manufactured Hypersonic Engines Julien Cohen Director of Applications Velo3D	Automated Laser Cleaning/Ablation as a Novel Tool in Aerospace Manufacturing Dmitri L. Novikov, PhD Director IPG Photonics	Panel: Automated Composites: Unlocking Methods for Advancing Manufacturing Technologies Through Automation Moderator: Waruna Seneviratne, NIAR Director Research/Senior Research Scientist, Wichita State University Panelist:	
10:50-11:15	Refractory Additive Manufacturing and Enabling Technology for Hypersonic Missions Youping Gao, PhD Chief Scientist & EVP Castheon Inc	Reconfigurable Tooling - Flexibility While Saving Time and Cost Dale Beardmore Head Project Consultant Harcourt Industrial, Inc.		
11:25-11:50	Redefining Air Superiority with Additive Manufacturing Kevin Yap Sales Engineer Endeavor 3D	Maintaining Relevancy: How Machine Companies can Improve Resiliency to Market Shifts Rachel Short Managing Director ADAPTIX™ by Norgren		
12:00 - 2:00 PM Lunch Break/Visit the Exhibits				
2:00- 4:10	**Inspection, Simulation, Testing, and Digital Tools for Additive Manufacturing** **Room: Seaside** **Chair:**	**Smart Manufacturing & IIoT** **Room: Seaside** **Chair:**	**Automation Assembly & Robotics** **Room: Seaside** **Chair: Jim Fisher**	**Digital Engineering and Modeling & Simulation** **Room: Seaside** **Chair: Don Kinard**
2:00-2:25	Simulate to Optimize Print Performance Ankur Kumar Simulation Applications Engineer TATA Technologies Inc	How to Weave Your Digital Thread in the Cloud Sung Kim Chief Product and Technology Officer iBase-t	AI-Powered Smart Robotic Cells for Autonomous Surface Finishing Satyandra K. Gupta, PhD, FSME Co-Founder and Chief Scientist GrayMatter Robotics	The Digital T's - Threads, Twins, Technology, and Transformation Don A. Kinard Senior Fellow Lockheed Martin
2:35-3:00	Digital Additive Manufacturing at Boeing Nicholas Mule Director, Boeing Additive Manufacturing Intelligence Center The Boeing Company	Integrating Systems and Processes for Smart Manufacturing Conrad Leiva VP Ecosystem and Workforce Development CESMII	Game Changers: Factors to Consider for Successful Implementation of Smart Manufacturing Options! Jason R. Fortune Business Development and Applications Specialist Progressive Machine and Design	The Digital Thread/Digital Twins are used to control/monitor the real time of Profiler Cell, Coolant Filter at Boeing Wen Jiang Sr. Control Engineer Boeing
3:10-3:35	Automatic In-Situ Inspection for Large-Scale Additive Manufacturing Scott Blake President Aligned Vision	Industrial Statistics: A Hybrid Technology to Help all Manufacturing Industries to Make Quality Products - No SPC Required Bob Matthew President Quality Engineering Management Inc.	Robotic Material Removal and Finish on Parts with High - Approaches From Big to Small Companies Michael Haas Vice President FerRobotics	Augmented Reality Application on Harness Installation Erdal Tekin Senior Head Leader Turkish Aerospace
3:45-4:10	Moore's Law for Metal Printing: Where we are and How Do We Stay on Track? Edward D. Herderick, PhD VP Science and Technology Development NSL Analytical	Enhancing Aerospace Manufacturing Efficiency and Safety with Synthetic Data Strategies and Machine Learning Michael L. Winterrose, PhD Data Scientist Northrop Grumman	Manage Costs & Retain Your Workforce with People-Centric Technology Investments Will Healy Universal Robots USA, Inc.	Using 3D Digital Content Creation Tools for Efficient Design of Aero Interiors / Exteriors Michael Check General Manager, Linkage Mechdyne