

RAMP MD'S 10TH ANNIVERSARY SYMPOSIUM

From Prototyping to Production:

The Growth and Potential of Advanced Manufacturing

Speaker Bios

Chad Schneider, P.E., MSE, founded Root3 Labs in 2012, where his team helps medical device, aerospace, and defense technology manufacturers design and engineer innovative, market-ready products with a complete manufacturing supply-chain solution. Mr. Schneider is a professional mechanical engineer with over 25 years of experience in the process of product development. He enjoys designing practical, efficient, and robust electro-mechanical systems and offers extensive knowledge of various rapid prototyping and manufacturing techniques.

Dr. Brad Baker is the Principal Engineer for Energetics Technology Center, working to expand strategic policy around energetic materials and advanced manufacturing. His technical areas of expertise include materials science, microscopy, and additive manufacturing. Baker started his military career as an enlisted Navy sailor, retiring as Captain after a 36-year career, which included serving as Associate Professor at the U.S. Naval Academy. He was recognized as one of the 20 most influential academics in smart manufacturing in 2021, and received the 2024 education and workforce development award from America Makes.

Greg Paulsen is Director of the Applications Engineering Team at Xometry, working with customers and suppliers on unique projects and sharing the capabilities of Xometry's proprietary digital manufacturing marketplace. He sits at the intersection of technology and manufacturing, and, under his direction, his team plays a key role in Xometry's mission of accelerating the digitization of the industry. He is also a subject matter expert with 15 years of experience in additive manufacturing (3D printing), CNC machining, injection molding, and beyond.

Jim Snodgrass, Senior Account Executive at Cimquest, has sold a wide variety of commercial additive manufacturing equipment over the past 13 years. As a result, he has worked with nearly every industry and dozens of advanced applications to help companies adopt additive manufacturing technologies. Jim has a passion for growing AM knowledge and helping the 3D printing industry grow into wider use for general manufacturing. Prior to this, Snodgrass was an account executive for both Stratasys and SolidWorks.

Todd Marks is the founder and CEO of Mindgrub Technologies, a technical agency and creative consultancy that specializes in award-winning mobile,

web, and marketing strategy solutions for clients such as Exelon, Wendy's, DELL, Under Armour, Yamaha, Crayola, Geico, The Economist, University of Maryland, and NASA. Todd has shared his vision for innovation in technology and business at conferences such as SXSW, Adobe Max, and Mobile World Congress. Todd is chair of the Maryland Tech Council and has provided strategic direction for many public/private initiatives.

Brad Hennesie is the CEO of Next Step Robotics, a firm that has developed a robotic device to help people suffering from foot drop, which is a major cause of injuries in older adults and stroke survivors. Hennesie is formerly a Lead Clinical Research Specialist from the University of Maryland, Baltimore, and has been working with his co-founders to commercialize the new portable ankle robot (AMBLE). He has secured significant funding, including a cooperative agreement with NIH National Institute of Neurological Disorders and Stroke.

Ben McGlaughlin is the Manufacturing Program Manager for the Maryland Department of Commerce. He is responsible for developing initiatives, partnerships, and programs to connect manufacturers with tax incentives and other funding, as well as to connect them

with trade associations, industry partners and academic organizations to support economic growth. Ben has 30+ years of manufacturing leadership experience including serving as President & CEO of a food manufacturer, as a partner and senior leader in a packaging automation company, and as a consultant helping emerging manufacturers scale for success.

Chris Cosgrove serves as the Board Chairperson for RAMP MD and the manager of the Chesapeake Production Operation for SURVICE Engineering. The Chesapeake Production Operation provides customers with production, program management, flight operations, testing, quality, service, repair, inspection, and field metrology services. Hardware products primarily include unmanned aerial vehicles, ground robotics, and associated systems. Chris has worked for SURVICE for over 22 years and previously led their Metrology Group, providing dimensional inspection services, 3-D scanning, and geometric modeling for various industries.

Ken Malone is the co-founder of Early Charm Ventures. For a dozen years, Early Charm has been creating, owning and operating ventures that convert university inventions into commercial products. Early Charm has developed a unique business model based on the tenet that no Valley of Death exists. Before co-founding Early Charm, he served 7 years in at the University of Southern Mississippi as chief operating officer, founding director of the Trent Lott National Center for Economic Development & Entrepreneurship, and chair of the Department of Economic & Workforce Development.

Dr. Sean Wise is president of RePliForm Inc. and has been working at making prototyping parts since the early 1980s,

even before “rapid” and layered manufacturing entered the lexicon. His career began in working on new methods to make rapid tooling so parts could be fabricated from production materials by production processes to test designs in development. In 2000, Wise founded RePliForm, Inc., a Baltimore-based firm that has been a pioneer in electroplating 3D printed plastics and other non-conductive materials.

Conrad Laskowski is the Director of Engineering for Root3 Labs, where he manages engineering teams and serves as a Senior Mechanical Engineer. Laskowski’s passion for creation was first sparked using his grandfather’s tools. After graduating from the University of Maryland, Laskowski gained professional experience designing and testing engineering solutions in the medical industry, emphasizing microfluidics. Before joining Root3 Labs, Laskowski was the Lead Mechanical Engineer for a company specializing in wearable indoor mapping and tracking technology for government and public safety personnel.

Stacey Clark is the Vice President of Defense for the New Jersey Innovation Institute (NJII), a subsidiary of the New Jersey Institute of Technology, where she leads a team of researchers and engineers who develop data management techniques to identify issues, trends, and defense threats quicker and with less bias. Prior to NJII, Clark was a materials engineer for 34 years with the US Army, focused on materials engineering, manufacturing research, armaments failure analysis, and enterprise product data management. Clark supported the Office of the Secretary of Defense in preparing guidelines and training for greater use of digital engineering data.

She currently serves as the Head of the US Delegation to the International Standards Organization (ISO) TC 261 to develop standards for additive manufacturing.

Andy Davis is the Director of Government Solutions for The Barnes Global Advisors where he leads efforts to deliver advanced manufacturing support to the U.S. Government and its Allies. A respected leader in the Defense advanced manufacturing and industrial base community, Davis previously served as Deputy Director and Chief Technology Officer to the OSD Industrial Base Analysis and Sustainment Program; the Army Combat Capabilities Development Command (DEVCOM) Global Technology Advisor to the United Kingdom, Israel, and South Africa; led the Army’s Manufacturing Technology (ManTech) Program; and helped launch the Manufacturing USA Institutes.

Mick Maher is co-founder of ASTRO America and oversees its technical team, leveraging decades of technical and managerial experience in defense manufacturing fields. A renowned expert in manufacturing processes and materials, Maher served as a leading program manager at Defense Advanced Research Projects Agency (DARPA), managing a portfolio of programs specializing in advanced materials and manufacturing. Prior to joining DARPA, Maher worked for the U.S. Army Research Laboratory (ARL) and oversaw research and development programs in armor material, coatings, composite technologies, and hybrid material systems.

