

MILITARY ADDITIVE MANUFACTURING SUMMIT AND TECHNOLOGY SHOWCASE

EVENT AGENDA



February 5-6, 2020
Tampa, Florida | CAMLS (USF)

More Information Available at:
MilitaryAM.dsigroup.org



Program Design & Goal:

DSI's 4th Annual Military Additive Manufacturing Summit is designed as an educational "Town Hall" forum, where thought leaders & key policy-makers across military services, defense agencies, & civilian organizations can come together for actionable discussions & debate. This year's Summit will focus on the latest 3D printing technologies being developed & the push across the DoD to provide rapid equipment to the Warfighter on the battlefield. Additive manufacturing innovations are being utilized to increase the current level of capability and reduce the cost of parts, in order to deliver greater operational flexibility to the Warfighter and further enhance the defense industrial base.

This event will focus on collaboration with industry to leverage advanced manufacturing technologies for military operations. Military commands & defense agencies will have the opportunity to improve their supply chains at scale, increase the size, weight, & power (SWAP) of their platforms/weapons systems, & enable the Warfighter to efficiently replace parts in a shorter amount of time. Senior leaders from across the services will explain their overall goals in using 3D printing capabilities to enhance materiel readiness & guide mission success.

Discussions at this Summit will also focus on emerging topics in the additive manufacturing community to include; integrating technologies onto military structures/weapons systems to help in reducing sustainment costs & rapidly delivering solutions to ensure Warfighter dominance. Additionally, the growth of 3D metal printers is helping to expand the production of strong, complex parts and are contributing to DoD efforts to develop new materials and design tools for 3D printing, all in an effort to supply the Warfighter qualified parts for improved combat readiness.

Operating Guidelines:

DSI's Military Additive Manufacturing Summit directly supports DoD/Federal Government priorities by providing a conduit for officials to efficiently reach audiences outside of their respective offices that directly impact their department's mission success, at no charge to the government, & in an efficient expenditure of time.

DSI's Summit will provide a forum to address & improve internal & external initiatives, meet with & hear from partner organizations, disseminate vital capability requirements to industry, increase visibility within the larger community, & generally support their mission.

* The Summit is open & complimentary to all DoD & Federal Government employees & is considered an educational & training forum.

(Industry & academia members are charged a fee of attendance)

Summit is CLOSED TO PRESS / NO RECORDINGS

General Target Audience:

US Military Services, US Military Commands, Military & Government Research Labs, Government Agencies, Academia, & US Technology Solution Providers, 3D Printing Companies, Prototyping, Supply Chain Solutions, Logistics

Specific topics to be discussed include:

- *Modernizing supply chains through additive manufacturing in support of the Warfighter*
- *Leveraging advanced manufacturing to enhance supply chains and improve materiel readiness for the Warfighter*
- *Operationalizing additive manufacturing to enhance the materiel readiness of the US Army*
- *Leveraging 3D printing to bolster materiel readiness across the US Air Force*
- *Utilizing additive manufacturing technologies to improve military readiness*
- *Providing an update on the AM Roadmap: Enhancing the America Makes Digital Storefront to better support the DoD*
- *Leveraging the Defense Industrial Base to support DoD systems through additive manufacturing*
- *Facilitating the integration of 3D printing onto military structures & weapons systems*
- *Implementing 3D printing processes in support of Army's ground and support systems*

7:00– 8:00	Registration & Light Breakfast Reception Open
8:00-8:15	Moderator Remarks: LTG David Halverson, USA (Ret), Chairman & CEO, Cypress International Inc. (Confirmed)
8:15-9:00	<p>Leveraging the Defense Industrial Base to Support DoD Systems Through Additive Manufacturing</p> <ul style="list-style-type: none"> - Utilizing innovative 3D printing technologies to improve supply chains, eliminate zero balance items, enhance Warfighter readiness - Applying advancements made in AM to support DoD acquisition and sustainment - Providing robust, innovative industrial capabilities in the era of great power competition in order to help fulfill Warfighter requirements <p>Robert A. Gold, SES (Confirmed) Director, Technology and Manufacturing Industrial Base DoD</p>
9:00-9:45	<p>*DLA Keynote Remarks*</p> <p>Modernizing Supply Chains Through Additive Manufacturing in Support of the Warfighter</p> <ul style="list-style-type: none"> - Developing & transitioning agile, innovative 3D printing capabilities for the Defense logistics consumer base - Sustaining Warfighter readiness and lethality by delivering proactive global logistics - Near term goals to collaborate with other members of DoD/Industry on integrating AM parts for a more operationally resilient, secure supply chain <p>Maj. Gen. Allan E. Day, USAF (Confirmed) Director of Logistics Operations, J3 Defense Logistics Agency</p>
9:45-9:55	<p>AddUp's Deployable Metal AM Solution</p> <p>Sean Pexton (Confirmed) Proof of Concept and Component Leader AddUp Inc.</p>
9:55-10:55	Networking Break & Exhibits
10:55-12:25	<p>Joint Service Panel:</p> <p>Leveraging Advanced Manufacturing to Enhance Supply Chains and Improve Materiel Readiness for the Warfighter</p> <p><i>This panel will detail each of the Military Service's current efforts to leverage AM technologies to ensure rapid response to emerging Warfighter needs. It will also explain their efforts to utilize 3D printing to improve combat readiness, as well as maintenance & sustainment in the battlespace. Each senior leader will offer their perspective into how innovations in advanced manufacturing are helping the Warfighter maintain a decisive edge.</i></p> <p>Panel Moderator: Robert A. Gold, SES (Confirmed) Director, Technology and Manufacturing Industrial Base DoD</p> <p>Panelists: LtGen Charles G. Chiarotti, USMC (Confirmed) Deputy Commandant, Installations and Logistics USMC</p> <p>William F. Moore, SES (Confirmed) Principal Deputy HQDA G-4</p> <p>RDML Jack Moreau, USN (Confirmed) Director, Logistics – Supply Chain Operations Office of the Chief of Naval Operations</p>

12:25-12:55	<p>The Strasys Military Relationship: Real Solutions from Depot to Field Level Maintenance</p> <p>-Offering demonstrated and scalable additive manufacturing solutions for depot, intermediate, and field level maintenance repair operations</p> <p>Mark Menninger (Confirmed) Government Segment Sales Leader Stratasys</p>
12:55-1:55	<p>*Networking Lunch* Tech Talk 1:05-1:15pm in Exhibit Hall Applications for Full Color Additive Manufacturing</p> <p>Royal Spragg (Confirmed) Vice President, Emerging Technologies Westwind</p>
1:55-3:25	<p>Panel Discussion: Utilizing Additive Manufacturing Technologies to Improve Military Readiness</p> <p><i>3D printing innovations have helped the Military gain a significant advantage and have already provided direct support to Warfighters in the field. These technologies have not only improved the operational flexibility of our Warfighters, they have aided them in becoming more self-sufficient. This panel will discuss how each Military branch is planning to continue to integrate AM to help support Warfighter needs & address operational challenges to ultimately increase readiness.</i></p> <p>Panel Moderator: Edward Flinn (Confirmed) Director, Advanced Manufacturing Center of Excellence Rock Island Arsenal-JMTC, U.S. Army</p> <p>Panelists: Dr. Alan Pentz (Confirmed) AM Lead DASN (RDT&E)</p> <p>Dr. Mark D. Benedict (Confirmed) Additive Manufacturing SME, Materials & Manufacturing Directorate AFRL</p> <p>Michael Guinn (Confirmed) Advanced Manufacturing Lead SOF AT&L</p> <p>Larry (L J) Holmes (Confirmed) Assistant Director of Digital Design and Additive Manufacturing University of Delaware</p>
3:25-3:55	<p>How Advanced Computed Tomography Techniques Paired With a Rotating Target Microfocus 450kV Source Will assist in Taking us Below the Surface in High Resolution</p> <p>Wesley F. Wren (Confirmed) Director of Global Sales & Technology Research Avonix Imaging</p>
3:55-4:55	<p>Networking Break & Exhibits</p>
4:55-5:40	<p>Shaping the Future Role of Additive Manufacturing within NAVAIR</p> <p>-Overseeing efforts toward using 3D printing to provide the rapid ability to manufacture parts, minimize downtime, and reduce costs -Guiding the lifecycle logistics support and industrial operations for all Naval Aviation programs and platforms -NAVAIR efforts to further implement AM capabilities that will replace traditional manufacturing processes</p> <p>Steve Cricchi, SES (Confirmed) Director, Engineering Group NAVAIR</p>

Thursday, February 6th, 2020

8:00 –8:45	Registration & Light Breakfast Reception Open
8:45 –9:00	Moderator Remarks: LTG David Halverson, USA (Ret), Chairman & CEO, Cypress International Inc. (Confirmed)
9:00-9:45	*Army Keynote Remarks* Operationalizing Additive Manufacturing to Enhance the Materiel Readiness of the US Army <ul style="list-style-type: none">- Current initiatives toward advancing the integration of AM technologies to improve Army supply chains and readiness- Coordinating education & training for the industrial base workforce on how to use 3D printing methods/tools- Leveraging advanced manufacturing to fundamentally change the way the Army designs, delivers, produces, and sustains materiel capabilities MG Daniel G. Mitchell, USA (Confirmed) Presenting on Behalf of GEN Gus Perna, USA Commanding General U.S. Army Tank-Automotive and Armaments Command
9:45-10:30	*USAF Keynote Remarks* Leveraging 3D Printing to Bolster Materiel Readiness Across the US Air Force <ul style="list-style-type: none">- Utilizing AM to increase the readiness of AF assets- Implementing 3D printing technologies to reduce maintenance costs across the AF materiel enterprise- Detailing opportunities for industry to support AFMC with AM solutions & ensure unity of effort Gen Arnold W. Bunch, USAF (Confirmed) Commander Air Force Materiel Command
10:30-11:30	Networking Break & Exhibits
11:30 –12:15	Update on the AM Roadmap: Enhancing the America Makes Digital Storefront to Better Support the DoD <ul style="list-style-type: none">- Leveraging the nation's most innovative technical minds from government, industry, and academia to build smart, distributed manufacturing solutions- Convening the interests and needs of the industry in workshops and events to discuss, recommend and identify critical technology elements- Accelerating the adoption of 3D printing technologies through a collaborative infrastructure John Wilczynski (Confirmed) Executive Director America Makes/NCDMM
12:15-12:25	Metal Additive laser Powder Bed Fusion Melt Pool Monitoring of Radiated Spectral Emission Using Co-Axial Photodetector Sensors with Applied Planck Thermometry Darren Beckett (Confirmed) CTO Sigma Labs, Inc.
12:25-1:25	Networking Lunch

1:25–2:35	<p>Panel Discussion: Facilitating the Integration of 3D Printing onto Military Structures & Weapons Systems</p> <p><i>The increased possibilities of use cases for advanced 3D printing technologies and manufacturing processes over recent years has brought about a much more agile, sustainable way of delivering operational flexibility to the Warfighter in the battlespace. This panel will detail how 3D printing capabilities are now being integrated onto military structures/weapons systems such as bridges, planes, & ships, in an effort to help reduce sustainment costs, replace legacy systems, & rapidly deliver innovative technologies at scale to the Warfighter. It will also explain how these AM technologies will help to improve readiness by allowing the Warfighter the capability to print plastic or metal parts on demand, in the battlefield.</i></p> <p>Panel Moderator: Lily Arcusa (Confirmed) CTO, Rapid Sustainment Office Air Force Life Cycle Management Center</p> <p>Panelists: Capt Matthew Audette (Confirmed) Project Officer, AMOC MARCORSYSCOM</p> <p>Dr. Cindy K. Waters (Confirmed) Principal for Advanced Materials and Manufacturing Platform Integrity Department, Code 60 NSWCCD-Carderock Division</p> <p>Joseph Kott (Confirmed) Additive Manufacturing Branch Chief CCDC Ground Vehicle Systems Center, Army Futures Command</p> <p>Jonathan Holmes (Confirmed) GTRI</p>
2:35-3:05	<p>Final Networking Break – Exhibit Breakdown</p>
3:05-3:50	<p>Implementing 3D Printing Processes in Support of Army's Ground and Support Systems</p> <ul style="list-style-type: none"> - TACOM efforts to integrate 3D printing materials to create a responsive organic industrial base & facilitate an agile supply chain - Enhancing Warfighter capability through sustained combat readiness & the integration of AM technologies - Near term considerations toward establishing AM into the digital thread for operational/forward deployed forces <p>Edward Flinn (Confirmed) Director, Advanced Manufacturing Center of Excellence Rock Island Arsenal-JMTC, U.S. Army</p>
3:50-4:35	<p>Developing & Transitioning the Best AM Practices to Army Customers and the Organic Industrial Base</p> <ul style="list-style-type: none"> - Enabling additive solutions into and on military systems to help reduce Soldier downtime - Using AM to allow for the rapid development & prototyping of solutions for current/emerging threats - Near term modernization goals for the Army in working with industry to leverage commercial AM techniques <p>James L. Zunino III (Confirmed) Materials Engineer / AM Principal, Technical Lead CCDEVCOM –Armaments Center</p>
4:35	<p style="text-align: center;">End of Summit</p>

OPERATING GUIDANCE FOR MILITARY & GOVERNMENT (Federal & State) ATTENDEES:

DSI's Summit is open & complimentary to all U.S. DoD, Federal & State employees & is considered a compliant education & training forum.

Questions, please contact Richard Giordano: 201.266.0057 | rjiordano@dsigroup.org

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