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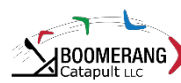
Present a

SPACE Symposium

September 25th & 26th, 2018

OPPORTUNITIES THAT ARE OUT-OF-THIS-WORLD!!!

Partners:



MICHIGAN AEROSPACE MANUFACTURERS ASSOCIATION

7205 Sterling Ponds Court
Sterling Heights, Michigan 48312
www.MichMan.org



MICHIGAN AEROSPACE MANUFACTURERS ASSOCIATION

September 25, 2018

Welcome Symposium Participants,

Thank you to each and every one of you who are joining us here in Traverse City as a guest, speaker, sponsor or industry professional. Your time is valuable and we hope that this MAMA SPACE symposium exceeds your expectation.

The presentations, connections and B2B meetings are intended to educate and to increase your excitement of the expanding commercial and defense SPACE industry. We at MAMA plan to be a collaborative partner to those who are contributing in the advancement of hypersonic and low orbit space technology, operations and deployment of vehicles.

We will work with all parties interested in supporting Michigan Launch Initiative (MLI). Our objective is to stand up an eco-system of expertise for low orbit and hypersonic commercial and defense launches and control. We will be inclusive and include academia, private enterprise and public/private partners. The focus will be on the value we can deliver and speed to market of these values.

This inaugural annual symposium is the first step in a journey that I hope includes you. Thank you for being a part of this symposium and being a part of something dynamic and purposeful to all of our lives.

My Best,

A handwritten signature in black ink, appearing to read 'Gavin Brown', written in a cursive style.

Gavin Brown

Executive Director

Michigan Aerospace Manufacturers Association

SPACE Symposium
September 25th & 26th, 2018

Speaker's Profiles



Lt Gen David A. Deptula, USAF (Ret.), Dean of the **Mitchell Institute for Aerospace Studies**, is a world-recognized leader and pioneer in conceptualizing, planning, and executing national security operations from humanitarian relief to major combat. In addition to his duties as Dean of the Mitchell Institute, he is the Risner Senior Military Scholar at the U.S. Air Force Academy; a board member at a variety of organizations; an independent consultant; and sought after commentator around the world as a thought leader on defense, strategy, and ISR.



BG. Michael Dudzik, USAF (Ret.) is the President of **IQM Research Institute**. He has served in key leadership roles on the Air Staff, National Security Space, and Air Force Space Command with assignments in policy, space systems acquisition, and space operations. Since 2013, IQM Research Institute has been actively engaged in embedded and operational cybersecurity programs for vehicles and infrastructure, as well as software assurance and cyber workforce development. Prior to joining IQMRI as President, Mr. Dudzik served as a Vice President of Science & Technology within the Lockheed Martin Corporation.



Chrystal A. Morgan is Director, State & Local Affairs for **United Launch Alliance**. In this role she briefs key stakeholders on ULA current projects, future programs and strategic direction. Prior to joining ULA Ms. Morgan served in management positions at a number of aerospace organizations including RUAG Space USA, MartinFederal NASA and Teledyne Brown Engineering.



MG. Mike Carey, USAF (Ret.) is a Founder and the Chief Strategy Officer of **ATLAS Space Operations, Inc.** A former USAF general officer with over 35 years of experience in satellite and space-related operations, he shapes ATLAS's future through strategy development, business planning and market engagement. Founded in 2015, ATLAS Space Operations, is a Service Disabled Veteran Owned Small Business satellite communications company providing affordable support services for satellite owners to control their spacecraft and recover useful and valuable data. At ATLAS he has served as the Chief Operating Officer and is currently the Chief Strategy Officer.



Col. Douglas L. Loverro, USAF (Ret.) is a highly regarded senior DoD space thinker and leader. He was Executive Director for the Air Force's Space and Missile System Center and most recently was DoD's Deputy Assistant Secretary of Defense for Space Policy. He was a distinguished graduate from the Air Force's Air Command and Staff College and Squadron Officer School, and was the #1 graduate from DoD's Industrial College of the Armed Forces. He is an outspoken advocate for greater use of commercial capabilities and manufacturing for future DoD space and launch missions.



Major General Michael A. Stone is the Commander, 46th Military Police Command, Michigan Army National Guard. In this capacity he provides leadership, mission command and strategic priorities in order to ensure effective and efficient accomplishment of the Command's missions. General Stone is also an Assistant Adjutant General and responsible for Army armories and installations in the State of Michigan and a Deputy Director of the Michigan Department of Military & Veterans Affairs.



Gavin Brown, Executive Director of the Michigan Aerospace Manufacturers Association and is recognized as the leading driving force for promoting aerospace companies active in Michigan by providing aerospace prime contractors and top-tier system integrators with highly qualified sources for their part procurement in the commercial, general aviation, defense and unmanned aerial vehicle aerospace sectors. The MAMA family of manufacturers has focused on developing a space industry focus that includes missiles, directed energy, satellites and other defense systems. MAMA was honored to receive The Boeing Company's 2016 Missile Defense Advocacy Award.



James Uthmeier James serves as Counsel to the Office of Secretary Wilbur Ross and Special Advisor to the Secretary for Space. He works on several priority issues for the Department, including space commerce, deregulation, new technology, and infrastructure. James also serves as the Department's Regulatory Reform Officer (RRO), a position created by President Trump's Executive Order 13777 on deregulation. In this role James oversees Commerce's Regulatory Reform Task Force and related initiatives. Prior to joining Commerce James worked at the law firm Jones Day in Washington, DC where he focused on government and business litigation, political law, antitrust and telecommunications.



Dan Shanahan is senior manager for Global Sales & Marketing, Homeland Defense, in the Space & Missile Systems (SM&DS) division of **The Boeing Company**. With a focus on strategy, marketing, and sales for a portfolio of Homeland Defense & Missile Defense programs, he most recently managed business development objectives for extending the Ground-based Midcourse Defense (GMD) system prime contract for an additional 5 years and brought the Redesigned Kill Vehicle (RKV) inside the GMD Program as a sole source capture.

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Space: A Commercial and Defense Opportunity?

**September 25th and 26th
Traverse City, Michigan**

Agenda

September 25th



NMC Hagerty Center
715 E. Front St.
Traverse City

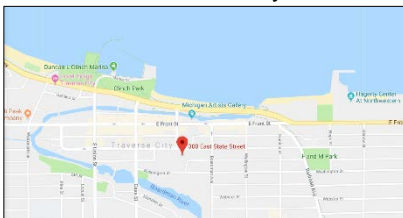


- 8:00 AM Registration & Continental Breakfast
- 9:00 AM Welcoming Remarks & Color Guard
- 9:20 AM **What's Best for America: Integrated or Segregated Aerospace Power?** - Lt. Gen David A. Deptula, USAF (Ret.)
- 10:05 AM **Satellite Cyber Security** - Mike Dudzik
- 10:30 AM Break
- 10:45 AM **United Launch Alliance** – Chrystal A. Morgan
- 12:00 PM Lunch
- 1:00 PM **Atlas Space Operations** – Mike Carey
- 2:00 PM B2B Meetings
- 4:00 PM Adjourn

September 26th



**PARK PLACE HOTEL
& CONFERENCE CENTER**
Park Place Hotel
300 East State Street
Traverse City



- 8:00 AM Registration & Continental Breakfast
- 8:30 AM Welcoming Remarks
- 8:45 AM **Space Leadership: A “Billy Mitchell Moment” in History** - Col. Douglas Loverro, USAF (Ret.)
- 9:15 AM **Roundtable – Michigan Low Earth Orbit Launch Facility** Gavin Brown, MG Mike Stone, Mike Carey
- 10:00 AM Break
- 10:15 AM **Commercialization of Space** – James Uthmeier
- 10:35 AM **Boeing Defense, Space & Security** - Dan Shanahan
- 12:00 PM Luncheon
- 1:00 PM B2B Meetings
- 3:00 PM Adjourn



Michigan Aerospace Manufacturers Association