HYPERSONIC WEAPONS SUMMIT

Digital Agenda

Presented by:
Institute for Defense & Government Advancement

October 28 - 30, 2020

Online 3 Day Webinar

Main Day Conference 1 – October 28, 2020	
0900	Webinar Begins / Meeting Setting
1150	Chairperson's Opening Remarks
1200	Developing and Fielding Transformative Hypersonic Capabilities - Offensive and defensive hypersonic Department-wide priorities - Ensuring hypersonic technological superiority: necessary next steps - Efforts to spur partnerships for improved and rapid results Mike E. White, SES Principal Director, Hypersonics Under Secretary of Defense for Research and Engineering
1230	Lockheed Martin Industry Perspective Douglas R. Graham Vice President, Advanced Programs Development Lockheed Martin Space
1300	Morning Networking Break & Meetings
1330	Rapidly Fielding Hypersonic Capabilities to Deter and Defeat Rapidly Modernizing Adversaries - Critical needs to bolster delivery of Army hypersonic weapon system - Roadmap to hypersonic fielding by FY2023: necessary next steps - Production efforts of the Common Hypersonic Glide Body Robert K. Strider, SES Deputy Director, Army Rapid Capabilities and Critical Technologies Office Secretary of the Army
1400	Industry Efforts to Enable DoD Hypersonic Goals: Lessons Learned and Opportunities Moving Forward Moderator: Major General (Ret.) John Horner - Director, Raytheon Integrated Defense Systems Panelists: Erin Riley Kocourek - Director, Raytheon Eric R. Scherff - Vice President, Hypersonic Strike Programs, Lockheed Martin Space Scott Stanfield - Director, Strategic Programs, Dynetics, a Leidos Company
1430	Afternoon Networking Break & Meetings
1500	Driving USAF Science, Technology & Engineering Competencies to Meet the Future of Hypersonic - Enabling future USAF hypersonic capability fielding - Hypersonic policy guidance for USAF' $2 billion S&T program - Immediate engineering challenges to be met in the near-term Dr. Yvette Weber Associate Deputy Assistant Director, Science, Technology & Engineerging Office of the Assistant Secretary of the Aie Force for Acquisition & Logistics

1530	**IMproving Knowledge and Control of Theoretical and Experimental Hypersonic Viscous Flows** - **Temperature consideration when managing hypersonic flow** - **Ongoing high-speed aerodynamics research and initiatives** - **Efforts to bring DoD and Miltary partners to test at Texas A&M testing facility: efforts with Army Futures Command** **Dr. Rodney Bowersox** **Department Head of Aerospace Engineering** **Texas A&M University**
1600	**Continued Networking Opportunities**
1930	**End of Digital Day 1**

Main Day Conference 2 – October 29, 2020	
0900	**Webinar Begins / Meeting Setting**
1150	**Chairperson's Opening Remarks**
1200	**Bolstering Strategic Deterrence and Global Strike Combat Support via Integration of Hypersonic Capabilities** - **Operational concepts** - **Readiness and temp** - **Lessons learned thus far to inform future ops** **General Timothy Ray** **Commander, Air Force Global Strike Command** **Secretary of the Air Force**
1230	**Dynetics, A Leidos Company Sponsored Speaking Session** - **Common Hypersonic Glidebody Industry Team** - **Common Hypersonic Glidebody Product Transition to Industry** - **Common Hypersonic Glidebody Transition to Production** **Scott Stanfield** **Director, Strategic Programs** **Dynetics, a Leidos Company**
1300	**Morning Networking Break & Meetings**
1330	**Guiding Aerospace Science Research to Enable Advanced Hypersonic Aerothermodynamics and High-Speed Propulsion** - **Current hypersonic research concentration efforts** - **Ongoing research to expand power, propulsion and thermal management of hypersonic systems** - **Guiding development of aero-thermal optimized hypersonic bodies** **Dr. Knox Millsaps, SES** **Director, Division of Aerospace Science, Air Warfare and Weapons** **Office of Naval Research**
1400	**Guiding the Hypersonic Systems Initiative at the University of Notre Dame** - **Addressing technical challenges for development of efficient, hypersonic flight vehicles: necessary next steps** - **Government and academia partnership efforts** - **Efforts to advance testing capabilities** **Thomas Corke** **Director, Hypersonic Systems Initiative, Advisor to VP Research** **Aerospace and Mechanical Engineering, University of Notre Dame**
1430	**Afternoon Networking Break & Meetings**

1500	**Traditional Heat Transfer and Fluid Mechanics Investigations for Hypersonic Flight** - Next-generation efforts to advance heat transfer - Modeling and data needs - Partnership efforts in Huntsville, de facto home for hypersonics **Dr. Philip Ligrani** **Eminent Scholar in Propulsion, Professor of Mechanical and Aerospace Engineering** **University of Alabama at Huntsville**
1530	**Aggregating Hypersonic S&T Data to Rapidly Deliver Next-Gen Technology Development** - Efforts to spur hypersonic development across the Deparment - Research aims - Collaborative efforts **Roger Garay** **Enterprise Portfolio Analyst** **Defense Technical Information Center** **Dr. Joseph Bonivel** **Subject Matter Expert** **Defense Technical Information Center**
1600	**Continued Networking Opportunities**
1930	**End of Digital Day 2**

	Focus Day – October 30, Friday
0900	Webinar Begins / Meeting Setting
1150	Chairperson Opening Remarks
1200	Keynote Remarks: Strategic Overview of DoD Acquisition & Sustainment Efforts for Future Hypersonic Dominance - Industrial base priorities to enable continued hypersonic RDT&E & fielding - Acquisition priorities and OSD needs - Efforts to expand lines of effort across Govt. and Military The Honorable Ellen M. Lord Under Secretary of Defense for Acquisition and Sustainment Office of the Secretary of Defense
1230	Accelerating Hypersonic Technology Development and Transition to Advanced Capability - Guiding DoD strategy and roadmap for hypersonic S&T - Establishing and running a National University Consortium for Applied Hypersonics - Workforce development efforts in the space Gillian Bussey Director, Joint Hypersonics Transition Office Office of the Undersecretary of Defense for Research & Engineering
1300	Morning Networking Break & Meetings
1330	Establishing USSTRATCOM Hypersonic Requirements for Strategic Deterrence & Global Strike Missions - USSTRATCOM capability and resource needs to fully integrate hypersonic technology - Efforts to support and advance global strike capabilities: necessary next steps - Identifying USSTRATCOM hypersonic mission capability needs Mr. Robert W. Thomas, Jr., SES DJ8 Deputy Director, Capability and Resource Integration United States Strategic Command
1400	Advancing Challenging Aerothermodynamic and Propulsion System Phenomena via Hypersonic Vehicle Simulation - Data modeling efforts to support continued hypersonic development - Modeling, data, and simulation needs - Partnership efforts across the DoD Dr. Russ Cummings Managing Director, DoD HPCMP Hypersonic Vehicle Simulation Institute United States Air Force Academy Scott Morton DoD HPCMP CREATE Air Vehicles Project Manager US Army ERDC Information Technology Laboratory Dr. Graham Candler Associate Department Head, Aerospace Engineering & Mechanics Department University of Minnesota

1430	**Efforts to Integrate Autonomous and AI Capabilities into Hypersonic Systems: Developing Artificially Intelligent Aerospace Systems** - **Efforts to integrate autonomous system capabilities into hypersonic systems: near-term engineering challenges** - **Addressing challenges of path planning, perception, localization, and flight control** - **Ongoing collaborative efforts** **Dr. Alex Roesler** **Deputy Director, Integrated Military Systems** **Strike & Aerospace Systems, Sandia National Laboratories**
1500	**Continued Networking Opportunities / Video on Demand**
1930	**End of Hypersonic Weapons Conference**

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