

Autonomous & Hypersonic Weapons Systems And Advanced Capability Enablers

November 4-6, 2020



DAY ONE: Wednesday, November 4, 2020

PRESENTATION TOPIC

8:45-9:00

Administrative Announcements & Welcome

(Pacific Time)

9:00-9:35

Day 1 Government & DoD Keynotes



The Honorable Katharina McFarland, Commissioner Chair, National Academies of Science Board of Army R&D, Former ASD of Defense for Acquisition and Acting Secretary of the Army for ATL and Army Acquisition Executive

“Artificial Intelligence Advanced Capabilities Needs & Requirements”

9:35-10:10



Michael J. Burns, Associate Labs Director, National Security Programs, Sandia National Laboratories

“Progress at Sandia for the DoD Common Hypersonic Boost Glide Vehicle and Autonomy for Hypersonics”

10:10-10:20

Matt Rabinovitch, CEO, Teleidoscope
(Exhibitor)

“Teleidoscope Visual Target Tracking For Autonomous Systems”



teleidoscope.com

10:20-10:30

Stretch & Virtual Coffee Networking Break

10:30-11:05



Mike White, Principal Director, Hypersonics, Office of the Undersecretary of Defense, Research & Engineering USD(R&E)

“Hypersonic Weapons: OUSD(R&E) Needs, Requirements and Opportunities”

11:05-11:40



Dr. Gillian Bussey, Inaugural Director, Joint Hypersonics Transition Office (JHTO), Office of the Undersecretary of Defense, Research, and Engineering, Advanced Capabilities, USD(R&E)

“Hypersonic Weapons Research: Current Needs & Requirements”

11:40-11:50

Stretch & Virtual Coffee Break

11:50-12:25



Dr. Tom Karako, Senior Fellow, International Security Program and Director, Missile Defense Project, Center for Strategic & International Studies

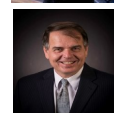
“The Evolution of Strike in the Next Missile Age”

12:25-1:10



Joint Presentation
Capt (USN-ret) George Galdorisi, Strategic Assessments and Technical Futures, Naval Information Warfare Center Pacific (NIWC)

“Algorithms of Armageddon: What Happens When We Insert AI Into Our Military Weapons Systems?”



&
Capt (USN-ret) Sam Tangredi, Strategic and Operational Research Department, National War College

1:15

Closing Remarks—Adjournment Day 1

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DAY TWO: Thursday, November 5, 2020

PRESENTATION TOPIC

8:45-9:00

(Pacific Time)

Day Two Opening Administrative Remarks

9:00-9:35



Dr. Giovanni Sembenini, Deputy Director, Centre for Maritime Research and Experimentation, NATO Science and Technology Organization

“Autonomous Undersea Surveillance and Intervention: S&T - Capabilities - Opportunities”

9:35-10:10

Government Keynote



Gilman Louie, Commissioner, National Security Commission on Artificial Intelligence, (NSCAI), Consultant to the Defense Innovation Board, DoD

“NSCAI Disruptive Advanced Capabilities and Way Ahead for Defense”

10:10-10:20

Stretch & Virtual Coffee Networking Break

10:20-10:55



Dr. N. Andrew Browning, Program Director of Autonomy, AeroVironment

“Tactical Missile Systems”

10:55-11:30



Tim Keeter, Missile and Aviation Systems Division, Program Manager, DARPA Gremlins Program, Dynetics (a Leidos Co.)

“Gremlins X-61A Air Vehicle (GAV)”

11:30-11:40

Stretch & Virtual Coffee Break

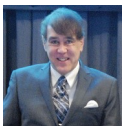
11:40-12:15



Joseph W. Kirschbaum, PhD, Director, Defense Capabilities and Management Team, U.S. Government Accountability Office, (GAO)

“Autonomous and Hypersonic Weapons in the Emerging Threats Landscape: A GAO Perspective”

12:15 12:50



Dr. Phil Ligrani "Eminent Scholar in Propulsion, Professor of Mechanical and Aerospace Engineering, Department of Mechanical and Aerospace Engineering, University of Alabama

“R&D in Experimental Heat Transfer Diagnostics for Supersonic and Hypersonic Flow Environments”

1:00

TTC Closing Comments & Adjournment Day 2



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DAY THREE: Friday, November 6, 2020

PRESENTATION TOPIC

8:45-9:00

Day Three Opening Administrative Remarks

(Pacific Time)

9:00-9:35

DoD Keynote



Major General Mark E. Weatherington, USAF, Commander, Eighth Air Force, and Commander, Joint-Global Strike Operations Center, Barksdale Air Force Base, Louisiana

“Hypersonic Weapons: Needs, Capabilities, and Opportunities”

9:35-10:10



Col Nickolas Kioutas, USA, Program Manager, Position, Navigation and Timing, US Army Program Executive Office Intelligence, Electronic Warfare and Sensors (PEO IEW&S)

“Army Position, Navigation and Timing Capabilities—The Open Innovation Collaborations, Capabilities and Opportunities”

10:10-10:20

Stretch & Virtual Coffee Networking Break

10:20-10:55



Col James W. "Chewy" Frey, HQMC Aviation Weapons Requirements Branch Head (Unmanned Aerial Systems)

“Marine Corps Autonomous Systems & Weaponry Capabilities”

10:55-11:30



LCDR (USN-ret) U.H. (Jack) Rowley, Chief Technology Officer (CTO), Maritime Tactical Systems, Inc. (MARTAC)

“USV in Multi-Role Autonomous Solutions”

11:30-12:05



Dr. Eric Marineau, Program Officer, Hypersonics, Aerothermodynamics, High Speed Propulsion and Materials, Office of Naval Research

“Office of Naval Research Hypersonics Needs, Requirements & Current Capabilities”

12:15

TTC Closing Comments & Final Adjournment

