

Introducing...

HYPERSONIC DEFENSE

Conference and Exhibition

Arlington, VA, USA

2nd – 3rd November 2021

Confirmed Speakers:

- Vice Admiral Jon Hill, Director, U.S. Missile Defense Agency
- Lieutenant General Frederic Parisot, Vice Chief, French Air and Space Force
- Michael White, Principal Director for Hypersonics, Under Secretary of Defense for Research and Engineering
- Brigadier General Paul Murray, Deputy Director of Operations, North American Aerospace Defense Command
- Dr. Jeffrey C. Boulware, Technical Director, Joint Integrated Air and Missile Defense Organization (JIAMDO)
- Eric Johnson, Technical Director, Sea-Based Weapons Systems, U.S. Missile Defense Agency
- Denis Vandensavel, Ballistic Missile Defense and Hypersonic Expert, NATO
- Dr. Eric Marineau, Program Officer, Hypersonic Aerodynamics, Office of Naval Research, U.S. Navy
- Dr. Russ Cummings, Managing Director, DOD HPCMP Hypersonic Vehicle Simulation Institute, U.S. Air Force Academy
- Sarah Popkin, High-Speed Aerodynamics Program Officer, U.S. Air Force Office of Scientific Research (AFOSR)
- Thomas Karako, Senior Fellow, Director, Missile Defence Project, Center for Strategic and International Studies (CSIS)
- Peter Huessy, Director of Strategic Deterrent Studies, Mitchell Institute for Aerospace Studies
- Dr. Phillip Ligrani, Eminent Scholar in Propulsion, Professor of Mechanical and Aerospace Engineering, University of Alabama, USA

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Event Programme Day One

08.30 Registration and Networking

09.00 CHAIRMAN'S OPENING REMARKS

Dr. Phillip Ligrani, Eminent Scholar in Propulsion, Professor of Mechanical and Aerospace Engineering, University of Alabama, USA

MISSILE DEFENCE CAPABILITIES

09.10 OVERVIEW OF U.S. MISSILE DEFENSE CAPABILITIES

- Current BMD capabilities and developments made in recent years
- Current preparedness for hypersonic threat
- Current shortcomings in missile defense capabilities
- Emerging threats and challenges

Vice Admiral Jon Hill, Director, U.S. Missile Defense Agency



09.50 RAYTHEON PRESENTATION

Tay Fitzgerald, Vice President, Strategic Missile Defense, Raytheon Missiles and Defense

10.30 Networking Coffee Break

11.00 NEED FOR SPEED : HYPERSONIC WEAPONS WITHIN THE FRENCH AIR AND SPACE FORCE

- Overview of French BMD capabilities
- Current modernisation efforts to defend against possible hypersonic threat
- Roadmap for the next few years

Lieutenant General Frederic Parisot, Vice Chief, French Air and Space Force

11.40 NATO BALLISTIC MISSILE DEFENCE ROADMAP

- Current NATO BMD capabilities
- Current threats being monitored
- Creating a coordinated defence capability to hypersonic weapons
- Where NATO's defence capabilities will be in the next few years

Denis Vandensavel, Ballistic Missile Defense and Hypersonic Expert, NATO

12.20 COMPLEX AIR DEFENSE: ADAPTING TO THE HYPERSONIC ERA

- Considerations for the 2022 Missile Defense Review
- Budget Trends
- Channelling the Threat
- Exploiting New Failure Modes

Thomas Karako, Senior Fellow, Director, Missile Defence Project, Center for Strategic and International Studies (CSIS)

13.00 Networking Lunch Break

SIMULATION AND RESEARCH OF HYPERSONIC WEAPONS



14.00 TEKNA PLASMASONIC SOLUTIONS : HIGH ENTHALPY GROUND MATERIAL TESTING FACILITIES

- Development of thermal protection systems using plasma wind tunnels
- Presentation of different technologies
- Review of Tekna's offering

Steven Adler, Plasma Applications Development - Americas, Tekna

Eric Bouchard, Senior Advisor, Product Line Manager – Systems, Tekna

14.40 TESTING HYPERSONIC WEAPON CAPABILITIES AND DEFENSES

- Research conducted by ONR on hypersonic weapons
- Challenges for test facilities to review defence systems against hypersonic weapons
- Collaboration needed to create strong defence systems

Dr. Eric Marineau, Program Officer, Hypersonic Aerodynamics, Office of Naval Research, U.S. Navy

15.20 Networking Coffee Break

15.50 BASIC RESEARCH IN HIGH-SPEED AERODYNAMICS

- Research portfolio relevant to hypersonic weapon aerothermodynamics
- Flight experiments
- Workforce development

Dr. Sarah Popkin, High-Speed Aerodynamics Program Officer, U.S. Air Force Office of Scientific Research (AFOSR)

16.30 CHALLENGES OF HYPERSONIC VEHICLE SIMULATION

- What are the challenges of testing hypersonic vehicles?
- Challenges of simulating the flight of a hypersonic vehicle
- Create challenges of defending against a hypersonic vehicle
- Developments needed

Dr. Russ Cummings, Managing Director, DOD HPCMP Hypersonic Vehicle Simulation Institute, U.S. Air Force Academy

17.10 CHAIRMAN'S CLOSING REMARKS

Dr. Phillip Ligrani, Eminent Scholar in Propulsion, Professor of Mechanical and Aerospace Engineering, University of Alabama, USA

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Event Programme Day Two

08.30 Registration and Networking

09.00 CHAIRMAN'S OPENING REMARKS

Dr. Phillip Ligrani, Eminent Scholar in Propulsion, Professor of Mechanical and Aerospace Engineering, University of Alabama, USA

FUTURE OF MISSILE DEFENCE – HYPERSONIC ERA

09.10 ACCELERATING HYPERSONIC DEFENSIVE CAPABILITY

- Current capability shortcomings
- R&D in creating an effective defence system from hypersonic weapons
- Importance of cooperation and collaborations

Michael White, Principal Director for Hypersonics, Under Secretary of Defense for Research and Engineering

09.50 CROSS-FUNCTIONAL EFFORTS: LOOKING AT ALL DOMAIN AWARENESS, INFORMATION DOMINANCE, AND DECISION SUPERIORITY

- Reviewing Homeland Defense capabilities to counter hypersonic weapons
- Current Aerospace warnings in place and advances
- Importance of creating IAMD systems that can react to hypersonic weapons

Brigadier General Paul Murray, Deputy Director of Operations, North American Aerospace Defense Command

10.30 Networking Coffee Break

11.00 CREATING HYPERSONIC MISSILE DEFENCE CAPABILITIES

- The current threats being faced
- Future hypersonic threats
- Importance of creating an HMD capability

Eric Johnson, Technical Director, Sea-Based Weapons Systems, U.S. Missile Defense Agency

11.40 PRIORITIZATION OF JOINT REQUIREMENTS FOR HYPERSONIC DEFENSE

- Role of the JROC and JIAMD as the global integrator for IAMD requirements
- Multi-domain approaches for defending against hypersonic weapons
- Critical attributes for tomorrow's missile defense enterprise

Dr. Jeffrey C. Boulware, Technical Director, Joint Integrated Air and Missile Defense Organization (JIAMD)

12.20 Networking Lunch Break

13.20 IMPACT ON WHAT THE US AND ALLIES NEED FOR MISSILE DEFENSE

- Overview of the amendments needed to track a hypersonic missile
- Current deterrent capabilities
- Challenges that will be faced with hypersonic weapons

Peter Huessy, Director of Strategic Deterrent Studies, Mitchell Institute for Aerospace Studies

14.00 IAMD TRAINING AND UNDERSTAND – HYPERSONIC ERA

- Overview of the IAMD Centre of Excellence
- Current training programs based on hypersonics
- Research being conducted to assist NATO nations on hypersonic missile defense

Colonel Evangelos Tzikas, Director, Integrated Air and Missile Defence Centre of Excellence

14.40 SUPPORTING HYPERSONIC FLIGHT THROUGH UCAH AND RESEARCH

- University Consortium for Applied Hypersonics
- TAMU Hypersonic Aerothermodynamic Research
- BOLT II Flight Test Experiments

Professor Rodney Bowersox, Director, Texas A&M National Aerothermochemistry and Hypersonics Laboratory

15.20 CHAIRMAN'S CLOSING REMARKS

Dr. Phillip Ligrani, Eminent Scholar in Propulsion, Professor of Mechanical and Aerospace Engineering, University of Alabama, USA

15.30 Networking Coffee Break

16.00 CLOSE OF CONFERENCE AND EXHIBITION

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