

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
- Major General Frederic Parisot, Deputy Chief of Staff, Plans and Programmes, French Air Force
- Rear Admiral Tom Druggan, Program Executive, Sea-Based Weapons Systems, U.S. Missile Defense Agency
- Mike White, Assistant Director, Hypersonics, Under Secretary of Defense for Research and Engineering
- Dr. Jeffrey C. Boulware, Technical Director, Joint Integrated Air and Missile Defense Organization (JIAMDO)
- Radoslava Stefanova, Head of IAMD Section, 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 FRENCH MODERNISATION EFFORTS IN MISSILE DEFENCE

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

Major General Frederic Parisot, Deputy Chief of Staff, Plans and Programmes, French Air Force

10.30 Networking Coffee Break

11.00 UK MISSILE DEFENCE CAPABILITIES AND UNDERSTANDING THE DEFENCE REQUIREMENTS FOR HYPERSONIC WEAPONS

- Overview of the Missile Defence Centre
- Reviewing the challenges of hypersonic defence capabilities
- Current shortcomings in UK BMD capabilities and developments being made
- Roadmap for UK missile defence

Invited: Paul Dack, Chief Scientist, Missile Defence Centre, Ministry of Defence, United Kingdom

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

Radoslava Stefanova, Head of IAMD Section, NATO

12.20 U.S. MISSILE DEFENCE PROGRESS FOR THE HYPERSONIC ERA

- How the U.S. DOD are progressing with their hypersonic defence capabilities?
- What the future threats look like
- Integrating new BMD systems
- Roadmap

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 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

14.40 HYPERSONIC AEROTHERMODYNAMICS

- Research conducted on hypersonic weapon aerothermodynamics
- Heat generated on the hypersonic warhead
- Speeds of travel

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

15.20 AEROSPACE APPLICATIONS OF NON-EQUILIBRIUM PLASMA TECHNOLOGY

- Current research on non-equilibrium plasma technology
- What applications are needed and need improvements
- Hypersonic era – NASA perspective

Dr. Isaiah M. Blankson, Senior Technologist for Hypersonics, NASA Glenn Research Center

16.00 Networking Coffee Break

16.40 HYPERSONIC GLIDE VEHICLE DEFENCE CONCEPT

- Overview of the research conducted
- How a hypersonic glide vehicle works?
- Challenges of defending against an HGV
- Concept versus Reality

Invited: David Hunter, Principal Scientist, Defence Science and Technology Laboratory (DSTL), United Kingdom

17.20 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

18.00 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 STREAMLINING ACQUISITION FOR HYPERSONIC WEAPON DEFENSE

- Importance in streamlining the acquisition process
- U.S. DOD hypersonic needs
- Strategic overview of the hypersonic defence system

Invited: Marcia Holmes, Deputy Director for Hypersonics, Directed Energy, Space and Rapid Acquisition, Office of the Assistant Secretary of the Army (Acquisition, Logistics and Technology)

09.50 CREATING WORLD'S BEST HYPERSONIC DEFENSE SYSTEM

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

Mike White, Assistant Director, Hypersonics, Under Secretary of Defense for Research and Engineering

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

Rear Admiral Tom Druggan, Program Executive, Sea-Based Weapons Systems, U.S. Missile Defense Agency

11.40 JOINT AIR AND MISSILE HYPERSONIC DEFENSE CAPABILITIES

- Overview of the JIAMPO
- Importance of creating a joint Air and Missile defense system for hypersonic weapons
- Reviewing different concepts to fit different theatres

Dr. Jeffrey Boulware, Technical Director, Joint Integrated Air and Missile Defense Organisation (JIAMPO)

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 IMPORTANCE OF SPACE CAPABILITIES TO COMBAT THREAT OF HYPERSONIC WEAPONS

- How hypersonic weapons will be a threat to space capabilities
- Creating a strong missile system for hypersonic weapons
- Defending against a hypersonic weapon

Invited: Dr. Roberta Envar, Chief Scientist, Space and Missile Systems Center, U.S. Space Force

14.40 Networking Coffee Break

15.10 DETECTION CAPABILITIES FOR HYPERSONIC WEAPONS

- What needs to change in detection systems for hypersonic weapons threat
- Operational requirements to improve detection
- Changes within NORAD during hypersonic era

Invited: Brian Lihani, Deputy Chief, Aerospace Warning Branch, North American Aerospace Defense Command (NORAD)

15.50 HOW THE HYPERSONIC ERA WILL CHANGE MISSILE DEFENCE SYSTEMS

- Current BMD systems compared to future BMD capabilities
- Acceleration of hypersonic capability race
- Importance of collaboration between public-private sectors to create hypersonic defence systems

Invited: Shawn Johnson, Joint and Multinational IAMD Lecturer, NATO School

16.30 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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