HYPERSONIC DEFENSE

CONFERENCE AND EXHIBITION

HUNTSVILLE, AL, USA 8TH – 9TH NOV 2022

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Conference and Exhibition Huntsville, AL, USA | 8th – 9th November 2022

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Confirmed Speakers

- Vice Admiral Jon Hill, Director, U.S. Missile Defense Agency
- Brigadier General Paul Murray, Deputy Director of Operations, North American Aerospace Defense
- Garrett Poe, Ph.D., Co-Founder, Executive Vice President of Technology, Blueshift
- Bogusz Madej, Integrated Air and Missile Defence Section, NATO
- Colonel Douglas Ralph, Program Manager Army Hypersonics, Army Rapid Capabilities and Critical Technologies Office, U.S. Army
- Donald Godfrey, Global Director of Business Development for Aviation and Defense, SLM-Solutions
- Colonel Evangelos Tzikas, Director, Integrated Air and Missile Defence Centre of Excellence
- Jody Singer, Director, NASA Marshall Space Flight Center

- Steven Adler, Plasma Applications Development -Americas, Tekna
- Eric Bouchard, Senior Advisor, Product Line Manager -Systems, Tekna
- Dr. Jeffrey C. Boulware, Technical Director, Joint Integrated Air and Missile Defense Organization (JIAMDO)
- Dr. Eric Marineau, Program Officer, Hypersonic Aerodynamics, Office of Naval Research, U.S. Navy
- Thomas Karako, Senior Fellow, Director, Missile Defence Project, Center for Strategic and International
- Professor Rodney Bowersox, Director, Texas A&M National Aerothermochemistry and Hypersonics
- Dr. Phillip Ligrani, Eminent Scholar in Propulsion, Professor of Mechanical and Aerospace Engineering, University of Alabama Huntsville, USA

For more information on how to book your place contact us at:

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Conference Day One – Tuesday 8th November 2022

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 Huntsville, USA

U.S. MISSILE DEFENSE CAPABILITIES AND DEVELOPMENTS IN HYPERSONIC DEFENSE

09.10 U.S. HYPERSONIC DEFENSE CAPABILITIES

- Overview of the current state of hypersonic defense capabilities across the U.S.
- What is needed during the next development phrase?
- Cooperation amongst agencies to speed up process

Invited: Stephanie Possehl, Director, Space and Missile Defense, Strategic, Space and Intelligence Portfolio Management (SSIPM), U.S. Department of Defense

09.50 HYPERSONIC DEFENSE DEVELOPMENTS AND TESTING

- Current hypersonic defense developments since last year
- Testing figures and where the U.S. military stands in hypersonic missile defense capabilities
- Public-Private partnerships
- Lessons learnt to date

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

10.30 NETWORKING COFFEE BREAK

LOCKHEED MARTIN

11.00 LOCKHEED MARTIN PRESENTATION

Senior Representative, Lockheed Martin

11.40 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

12.20 NETWORKING LUNCH BREAK SPONSORED BY:

LOCKHEED MARTIN

13.20 U.S ARMY HYPERSONIC PROGRAM

Colonel Douglas Ralph, Program Manager – Army Hypersonics, Army Rapid Capabilities and Critical Technologies Office, U.S. Army

ATEKNA

14.00 TEKNA PRESENTATION

Steven Adler, Plasma Applications Development - Americas, Tekna

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

14.40 NETWORKING COFFEE BREAK

15.10 U.S. ADAPTING TO A HYPERSONIC ERA – ARE WE STILL CATCHING UP?

- Where do the U.S. currently stand in terms of hypersonic development compared to other nations?
- What has been achieved over the past year?
- Developments that are required

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

15.50 IMPORTANCE OF JOINT COOPERATION IN A HYPERSONIC ERA

- Role of the JIAMDO 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 (JIAMDO)

16.30 CHAIRMAN'S CLOSING REMARKS

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



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Conference Day Two - Wednesday 9th November 2022

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 Huntsville, USA

INTERNATIONAL HYPERSONIC DEFENSE PERSPECTIVES

09.10 NASA ASSISTANCE WITH HYPERSONIC DEFENSE

- NASA Marshall update
- Launch simulations and assistance
- Hypersonic missile preparedness Jody Singer, Director, NASA Marshall Space Flight Center



09.50 ENHANCING SERVICE TEMPERATURES OF COMPOSITES IN HYPERSONIC DEFENSE APPLICATIONS

Garrett Poe, Ph.D., Co-Founder, Executive Vice President of Technology, Blueshift

10.30 NETWORKING COFFEE BREAK

11.00 FRENCH DEVELOPMENTS AND MODERNISATION TO PREPARE FOR HYPERSONICS

- Current missile defence capabilities
- Hypersonic testing facilities
- Preparing for the hypersonic era

Senior Representative, French Air and Space Force



11.40 VALIDATION OF MULTI-LASER PRINTING TECHNOLOGY FOR ADDITIVE MANUFACTURING

Donald Godfrey, Global Director of Business Development for Aviation and Defense, SLM-Solutions

12.40 NETWORKING LUNCH BREAK

HYPERSONIC TESTING AND SIMULATION UPDATE

13.40 PANEL DISCUSSION - TESTING AND SIMULATION DEVELOPMENTS FOR HYPERSONICS

Moderated by:

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

Panellists:

- Dr. Eric Marineau, Program Officer, Hypersonic Aerodynamics, Office of Naval Research, U.S. Navy
- Professor Rodney Bowersox, Director, Texas A&M National Aerothermochemistry and Hypersonics Laboratory
- Invited: Dr. Sarah Popkin, High-Speed Aerodynamics Program

 Officer H.S. Air Force Office of Scientific

Officer, U.S. Air Force Office of Scientific Research (AFOSR)

14.40 NETWORKING COFFEE BREAK

NATO PERSPECTIVE ON INTEGRATED MISSILE DEFENSE AND PREPARATION FOR HYPERSONIC THREATS

15.10 NATO APPROACH TO INTEGRATED AIR AND MISSILE DEFENSE, INCLUDING DEFENSE AGAINST HYPERSONIC WEAPONS

- Current NATO approach to IAMD
- Current hypersonic threat to NATO
- Coordinating strategic missile defence systems Bogusz Madej, Integrated Air and Missile Defence Section, NATO

15.50 IAMD TRAINING FOR THE 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

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

16.30 CHAIRMAN'S CLOSING REMARKS

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Synopsis coming soon...



Headquartered in Bethesda, Maryland, Lockheed Martin Corporation is a global security and aerospace company employing approximately 114,000 people worldwide. For more than 60 years, Lockheed Martin has been at the forefront of researching, developing, integrating, demonstrating, and operationalizing hypersonic capabilities, systems and engineering in support of our customer's missions as new threats emerge. By combining our leadership in missile defense, space and advanced materials, Lockheed Martin is uniquely postured to develop and deliver hypersonic strike and defense systems as well as the ability to detect, track and defeat hypersonic threats in every domain.





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