

OUR SCOPE EXPANDS FOR 2026 - JOIN US TO EXPLORE THE FULL SPECTRUM OF
NEXT GENERATION MISSILE CAPABILITIES AND MISSILE DEFENSE

NEXT GENERATION MISSILES AND HYPERSONICS SUMMIT

DECEMBER 9-10, 2025 | SHERATON RESTON HOTEL, RESTON, VA

EXPLORING OFFENSIVE AND DEFENSIVE MISSILE EFFORTS FOR THE FUTURE FIGHT

*"Excellent speakers,
across the community
from academia,
government, and
industry."*

Aerospace Engineer, John
Hopkins University Applied
Physics Laboratory

TOP REASONS TO ATTEND:



Dr. Mark J. Lewis Ph.D.
CEO
**Purdue Applied Research
Institute**



Dr. James Weber
Principal Director,
Hypersonics
**Office of the Under
Secretary of Defense for
Research and Engineering**



Marica Holmes
Principal Deputy Assistant
Secretary of Defense
for Mission Capabilities
Department of Defense



Dr. Gillian Bussey
Deputy Chief Science Officer
US Space Force



Tracy Tynan
(A) Director for Acquisition
Missile Defense Agency



**Major General
Frank Lozano**
Program Executive Officer,
PEO Missiles and Space
US Army

WELCOME

FROM THE CONFERENCE DIRECTOR

Welcome to the IDGA's 6th Annual Next Generation Missiles and Hypersonics Summit.

After a landmark year in missile and hypersonic weapons development, IDGA is proud to host this year's Summit; bringing together leaders across the Department of Defense, industry, academia, and our international allies to discuss the future of strategic weapons innovation and integration.

This year's program will highlight critical topics including the status of flagship programs like HACM, CPS, LRHW, and ARRW; developments in layered missile defense architectures; advances in propulsion, guidance, and targeting systems; and emerging concepts like Golden Dome for America. We'll also cover enabling technologies such as AI, test infrastructure, and advanced manufacturing.

As missile threats evolve in speed, range, and sophistication, so too must our development, testing, and deployment strategies. This event provides a platform to engage on the operational, technical, and strategic challenges that lie ahead and how we can overcome them through collaboration and innovation.

With extensive networking opportunities, keynotes from senior leaders, and insight from those building the future of missile warfare, this Summit is your opportunity to stay at the forefront of one of the most critical areas of national defense.

Thank you for joining us at IDGA's Next Generation Missiles and Hypersonics Summit 2025. We look forward to a productive and impactful event.

Luke Spitaletta
Conference Director | IDGA



MEET THE CHAIRMAN

Dr. Mark Lewis PhD,
CEO,
Purdue Applied Research Institute



BIO:

Dr. Mark J. Lewis is chief executive officer of the Purdue Applied Research Institute, the nonprofit applied research arm of Purdue with a particular focus on national security, economic security and food security for the United States. A renowned researcher, professor and former Deputy Undersecretary of Defense, Lewis brings a wealth of national security, scientific and academic experience to the institute. Lewis came to Purdue from his post as executive director of the National Defense Industrial Association's Emerging Technologies Institute, a nonpartisan organization focused on technologies that are critical to the future of national defense. This institute provides research and analyses to inform the development and integration of emerging technologies into the defense industrial base. Before this position, Lewis was the director of defense for research and engineering in the Defense Department, overseeing technology modernization for the services and defense agencies, as well as the acting deputy undersecretary of defense for research and engineering. In that role, he was the Pentagon's senior-most scientist, managing a \$17 billion budget that included the Defense Advanced Research Projects Agency, the Missile Defense Agency, the Defense Innovation Unit, the Space Development Agency, Federally Funded Research and Development Centers (FFRDC) and the Defense Department's basic and applied research portfolio.

From 2012 to 2019, Lewis was the director of the Science and Technology Policy Institute, an FFRDC that supported the Executive Office of the President and other executive branch agencies in forming national science and technology policy. Lewis is a professor emeritus at the University of Maryland, where he served as the Willis Young Jr. Professor and chair of the Department of Aerospace Engineering until 2012. A faculty member at Maryland for 25 years, he taught and conducted basic and applied research in hypersonic aerodynamics, advanced propulsion and space vehicle design and optimization.

Best known for his work in hypersonics, Lewis's research has spanned the aerospace flight spectrum from the analysis of conventional jet engines to entry into planetary atmospheres. From 2004 to 2008, Lewis was the Air Force's chief scientist, the principal scientific adviser to the chief of staff and secretary of the Air Force. As the longest-serving chief scientist in Air Force history, his primary areas of focus included hypersonics, space launch, energy, sustainment, advanced propulsion, basic research and workforce development. From 2010 to 2011, he was president of the American Institute of Aeronautics and Astronautics.

EVENT THEMES

Reasons to Attend

Expanded focus to encompass the entire scope of next generation missiles and hypersonic capabilities, including defensive capability development, and sub-Mach 5 missiles.

Explore developments surrounding the new Golden Dome for America and the path forward to development and deployment.

Gain insights into space-based tracking and communication advancements, including SDA's Tracking and Transport Layer and related satellite initiatives critical to hypersonic kill chain.

Hear first hand from Congressional leaders on the future of hypersonics and missile defense funding.

Understand the status of delivery of the Army and Navy hypersonic capabilities, including the Long-Range Hypersonic Weapon (LRHW) and Conventional Strike Program (CPS), alongside continued development and testing of the Air Force's Air Launched Rapid Response Weapon (ARRW) and Hypersonic Attack Cruise Missile (HACM) programs.



2025 EARLY SPEAKER ROSTER



Dr. James Weber
Principal Director,
Hypersonics
**Office of the Under
Secretary of Defense
for Research and
Engineering**



Marica Holmes
Principal Deputy
Assistant Secretary
of Defense for
Mission Capabilities
Department of Defense



Tracy Tynan
Director of Acquisition
**Missile Defense
Agency**



Dr. Gillian Bussey
Deputy Chief Science
Officer
US Space Force



**Major General
Frank Lozano**
Program Executive
Officer, PEO Missiles
and Space
US Army



Geoff Wilison
Program Manager,
T&E/S&T Program, Test
Resource Management
Center
**Office of the Under
Secretary of Defense
for Research and
Engineering**



Dr. Jesse Maxwell
Head, Hypersonic
Aerodynamics and
Propulsion, Spacecraft
Engineering Division
US Navy



Dr. Robert Baurle
Senior Scientist,
Hypersonics, Air Force
Research Laboratory
US Air Force



Dr. Mark Benedict
Senior Scientist, Advanced
Manufacturing, Air Force
Research Laboratory
US Air Force



Dr. Rodney Bowersox
Senior Associate Dean for
Research
Texas A&M University



Adam Jones
Department Head, Integrated
Engagement Systems, Naval
Surface Warfare Center
US Navy



Richard Ast
Kinetic Capabilities (Hypersonics,
Munitions, Unmanned Systems)
Sector Lead, Industrial Base
Analysis and Sustainment (IBAS)
Program, Innovation Capability
and Modernization (ICAM) Office,
OASD for Industrial Base Policy,
**OUSD for Acquisition and
Sustainment**
(pending final approval)



Zach Gent
Liaison Officer, Joint
**Hypersonics Transition
Office**



Dr. Prashant Khare
Professor, Bradley Jones
Chair & Department
Head, Dept. of Aerospace
Engineering
University of Cincinnati



Dr. Kareem Ahmed
Professor, Director, UCF Center
of Excellence in Hypersonics &
Space Propulsion
**UCF Department of
Mechanical and Aerospace
Engineering**



Dr. Greg Scofield
Hypersonics Laboratory
Director
**Purdue Applied Research
Institute LLC (PARI)**



David Bertz
Senior Project Manager,
Hypersonics Advanced
Manufacturing Technology
Center
**Purdue Applied Research
Institute LLC (PARI)**



Dr. Julio Hernandez
Characterization Engineer/
Researcher
**Purdue Applied Research
Institute LLC (PARI)**



Dylan Crump
Ceramics Research Engineer
**Purdue Applied Research
Institute LLC (PARI)**

DAY 1 | DECEMBER 9

0730 REGISTRATION AND NETWORKING

0855 CHAIR'S WELCOME REMARKS

Dr. Mark J. Lewis, CEO, Purdue Applied Research Institute LLC (PARI)



0900 NEXT-GENERATION MISSILE DEFENSE: EVOLVING ARCHITECTURE FOR EMERGING THREATS

- MDA's roadmap for modernizing missile defense systems in response to advanced threats
- Future technology priorities: AI, command and control (C2), advanced interceptors, etc.
- Role of MDA in supporting INDOPACOM rearmament and readiness

Senior Representative, Missile Defense Agency (invited)



1000 GOLDEN DOME FOR AMERICA: DEFINING THE VISION FOR A NATIONAL MISSILE DEFENSE ARCHITECTURE

- Defining Golden Dome's scope, mission, and impact on deterrence
- Aligning offensive and defensive capabilities within the architecture
- Building interagency and commercial support for the initiative

Marcia Holmes, Principal Deputy Assistant Secretary of Defense for Mission Capabilities, Department of Defense



1030 NETWORKING COFFEE BREAK

1100 NAVAL APPLICATIONS OF HYPERSONIC PROPULSION

- Progress in scramjet and dual-mode ramjet research for maritime use
- Propulsion-airframe integration challenges in the naval domain
- Key testing milestones and future experimentation needs

Dr. Jesse Maxwell, Section Head, Hypersonic Aerodynamics & Propulsion, Spacecraft Engineering Division, US Naval Research Laboratory, US Navy



1200 PROCURING THE FUTURE: COUNTER-HYPERSONIC CAPABILITIES IN THE MISSILE DEFENSE ARCHITECTURE

- MDA acquisition strategy for counter-hypersonics
- Golden Dome implications for MDA scaling
- Integration of tracking later and interceptor programs

Tracy Tynan, (A) Director for Acquisition, Missile Defense Agency



1230 LUNCH AND NETWORKING

1330 DRIVING INNOVATION THROUGH INDUSTRIAL BASE MODERNIZATION

- How government can encourage industry-led innovation
- Balancing innovation goals with cost, quality, and delivery timelines
- The role of modernization in supporting the National Defense Strategy

Richard Ast, Kinetic Capabilities (Hypersonics, Munitions, Unmanned Systems) Sector Lead, Industrial Base Analysis and Sustainment (IBAS) Program, Innovation Capability and Modernization (ICAM) Office, OASD for Industrial Base Policy, OUSD for Acquisition and Sustainment (pending final approval)

DAY 1 | DECEMBER 9

1430

NAVAL DELIVERY OF PROMPT STRIKE: MARITIME INTEGRATION OF HYPERSONICS

- Update on Navy CPS shipboard missile systems
- Planning and test milestones for sea-based hypersonic delivery
- Naval-industrial readiness for hypersonic weapon integration

Senior Representative, Plans and Programs, Strategic Systems Program, US Navy (invited)



1500

NETWORKING COFFEE BREAK

1530

ACCELERATING HYPERSONICS THROUGH ADDITIVE MANUFACTURING, DIAGNOSTICS, AND MODELING DESCRIPTION

- Leveraging additive manufacturing for complex hypersonic geometries and rapid iteration
- Integrating advanced diagnostics to improve data quality and reduce testing risks
- Using modeling and simulation to shorten timelines and reduce cost for hypersonic system development

Moderator: **Dr. Mark J. Lewis, CEO, Purdue Applied Research Institute LLC (PARI)**

Speakers:

Dr. Greg Scofield, Hypersonics Laboratory Director, Purdue Applied Research Institute LLC (PARI)

Dr. David Bertz, Senior Project Manager, Hypersonics Advanced Manufacturing Technology Center, Purdue Applied Research Institute LLC (PARI)

Dr. Julio Hernandez, Characterization Engineer/Researcher, Purdue Applied Research Institute LLC (PARI)

Dylan Crump, Ceramics Research Engineer, Purdue Applied Research Institute LLC (PARI)



1600

ADVANCED MANUFACTURING FOR HYPERSONIC FLIGHT

- Manufacturing challenges for hypersonic flight components
- Bridging lab research with flight-ready systems
- Collaboration with industry and academia for scalable solutions

Moderator:

Dr. Mark J. Lewis, CEO, Purdue Applied Research Institute LLC (PARI)

Speakers:

Dr. Robert Baurle, Senior Scientist, Hypersonics, Air Force Research Laboratory

Dr. Mark Benedict, Senior Scientist, Advanced Manufacturing, Air Force Research Laboratory



DAY 2 | DECEMBER 10

0725

REGISTRATION AND NETWORKING

0825

CHAIR'S WELCOME REMARKS

Dr. Mark J. Lewis, CEO, Purdue Applied Research Institute LLC (PARI)



0830

LEGISLATIVE EFFORTS: CONGRESSIONAL PATHS TO DEFENSE MODERNIZATION

- How the legislative process influences the pace and direction of defense modernization
- Building support across the aisle for emerging technologies and long-term investments
- Aligning policy and authorization with evolving threats like hypersonics and space-based weapons
- The role of congressional oversight in ensuring accountability and mission relevance
- Legislative lessons learned from past modernization efforts and future policy opportunities

Moderator:

Former Rep. Doug Lamborn (R-CO), Former Co-Chair, Hypersonic Caucus (Invited)

Speaker:

Rep. Mark Messmer (R-IN), Co-Chair, Hypersonic Caucus (Invited)

0915

STRATEGIC VISION FOR HYPERSONICS: BUILDING THE FUTURE FORCE

- Insights into future JHTO funding for university-based hypersonic research
- Integration of LRHW, CPS, HACM into service capability planning
- Role of OSD in cross-service alignment of hypersonic R&D and acquisition

Dr. James Weber, Principal Director, Hypersonics, Applied Technology, Office of the Secretary of Defense



1000

FUTURE-PROOFING MISSILES DEFENSE: SPACE SCIENCE PRIORITIES IN A HYPERSONICS ERA

- Defining Space Force's top science priorities for tracking and countering hypersonic threats through persistent space-based sensing and early warning systems
- Investing in breakthrough technologies such as advanced IR sensors, on-orbit processing, and edge AI to enable real-time threat detection and kill chain acceleration.
- Strategic vision for integrating R&D into long-term space-based missile defense architecture and ensuring readiness for future threat environments

Dr. Gillian Bussey, Deputy Chief Science Officer, US Space Force



1030

NETWORKING COFFEE BREAK

1100

MODERNIZING THE ARMY'S MISSILE AND SPACE PORTFOLIO FOR MULTI-DOMAIN OPERATIONS

- PEO Missiles and Space priorities for delivering next-generation capabilities
- Integrating missile systems to support joint and combined force operations
- Accelerating modernization through industry and partner collaboration

Major General Frank Lozano, Program Executive Officer, PEO Missiles and Space, US Army



DAY 2 | DECEMBER 10

- 1200 **ADVANCING HYPERSONIC T&E INFRASTRUCTURE ACROSS DOMAINS**
- Closing the test infrastructure gap for high-speed weapons
 - Enhancing range capabilities and data collection tools
 - Coordinating cross-service and allied test efforts
- Geoff Wilson**, Program Manager, Test & Evaluation / Science & Technology Program, Test Resource Management Center (TRMC),
Office of the Under Secretary of Defense for Research and Engineering



1230 **LUNCH AND NETWORKING**

- 1330 **NAVAL SURFACE WARFARE CENTER IN THE HYPERSONICS ERA: INNOVATING AT SPEED AND SCALE**
- NSWC's role in supporting CPS and other naval hypersonic programs
 - Infrastructure modernization for hypersonic testing and validation
 - Integrating high-speed weapons into existing surface combatant platforms
- Adam Jones**, Head, Integrated Engagement Systems Division, Dahlgren Division, **Naval Surface Warfare Center**



- 1430 **GLOBAL STRIKE INTEGRATION AND RESOURCE STRATEGY FOR HYPERSONIC DELIVERY**
- Strategic deterrence value of LRHW, CPS, HACM
 - INDOPACOM area of responsibility rearmament from a strategic force planner's lens
 - Integration of conventional hypersonic fires into strategic planning
- Senior Representative**, Capabilities and Resource Integration Directorate, **USSTRATCOM** (invited)

1500 **NETWORKING COFFEE BREAK**

- 1530 **PANEL DISCUSSION: FUELING INNOVATION: FUTURE JHTO FUNDING AND UNIVERSITY-LED HYPERSONICS R&D**
- Upcoming JHTO funding priorities for university research facilities
 - Support for testbeds, wind tunnels, and simulation environments
 - Aligning academic research with DoD hypersonic goals
 - How institutions can prepare for future funding opportunities
- Moderator: **Dr. Mark J. Lewis**, CEO, **Purdue Applied Research Institute LLC (PARI)**
- Speakers:
- Dr. Rodney Bowersox**, Executive Director, **University Consortium for Applied Hypersonics**
Zach Gent, Liaison Officer, **Joint Hypersonics Transition Office**



DAY 2 | DECEMBER 10

1600

PANEL DISCUSSION: INNOVATION AT SPEED: UNIVERSITY-LED BREAKTHROUGHS IN HYPERSONICS

- Cutting-edge hypersonic propulsion and aerothermal research underway at U.S. universities.
- Role of computational modeling, wind tunnels, and experimental labs in advancing designs.
- Building stronger research-to-application pipelines with government and industry partners.

Moderator: **Dr. Mark J. Lewis**, CEO, **Purdue Applied Research Institute LLC (PARI)**

Speakers:

Dr. Prashant Khare, Professor, Bradley Jones Chair & Department Head, Department of Aerospace Engineering, **University of Cincinnati**

Dr. Kareem Ahmed, Professor and Trustee Chair Professor, Director, UCF Center of Excellence in Hypersonics and Space Propulsion, **University of Central Florida**



1630

END OF CONFERENCE

*"I've already recommended this event to peers and colleagues.
Great insights both technically and programmatically."*

Program Analyst, OSD

MAXIMIZE YOUR INVOLVEMENT:

SPONSORSHIP AND EXHIBITION OPPORTUNITIES

Invest in making an impact with the people that matter to your business

Sponsorship is the most effective solution to share your company's idea to senior professionals from across the missile and hypersonics sector, who are searching for actionable missile defense solutions to their current business challenges.

IDGA's Next Generation Missiles and Hypersonics Summit will be attended by senior officials and decision-makers from the missiles and hypersonic industry, bringing together buyers and suppliers in one location. With tailored networking, sponsors can achieve the face-to-face contact that overcrowded trade shows cannot deliver.

Exhibition and sponsorship options are extensive, and packages can be tailor-made to suit your individual company's needs

Features of sponsorship include:

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For more information and to discuss the right opportunity, contact us on +1 646 200 7515 or sponsor@idga.org

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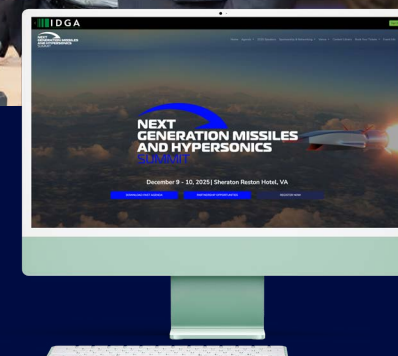
IDGA organizes conferences designed to further the national security objectives of the current administration and to facilitate the acquisition priorities of the DoD, DHS, and other federal agencies.

Outcomes from our events ensure that America gets the best value for money and the best-equipped military globally.

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You can access a variety of free resources such as whitepapers, articles, news, podcasts and presentations online at <https://www.idga.org/events-hypersonicweaponssystems/downloads>



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PRICING AND REGISTRATION INFORMATION

PASS INCLUDES:

Access to main conference days
(December 9-10, 2025)

Networking with your peers during the
drinks reception and breaks

Access to conference
presentations

INDUSTRY

EARLY BIRD OFFER 1

Register & Pay By Friday, September 19, 2025

**\$1,495
(SAVE \$200)**

EARLY BIRD OFFER 2

Register & Pay By Friday, October 31, 2025

**\$1,595
(SAVE \$100)**

Standard Price

\$1,695

FOREIGN MILITARY/GOVERNMENT, ACADEMIA, FFRDC AND NON-PROFIT

EARLY BIRD OFFER 1

Register & Pay By Friday, September 19, 2025

**\$795
(SAVE \$400)**

EARLY BIRD OFFER 2

Register & Pay By Friday, October 31, 2025

**\$995
(SAVE \$200)**

Standard Price

\$1,195

US MILITARY AND GOVERNMENT

EVENT CODE: 31026.006

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*To qualify for early booking discounts, payment must be received by the early booking deadline



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ACCOMMODATION AND VENUE

Sheraton Reston Hotel
11810 Sunrise Valley Drive Reston,
Virginia, USA, 20191
Tel: +1 (703) 620-9000

For updates on the venue and accommodation information, please visit:
<https://www.idga.org/events-hypersonicweaponssystems/venue>
Travel and accommodation are not included in the registration fee.

GROUP DISCOUNTS

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