



NDIA

AT THE HEART
OF THE MISSION

INTEGRATED PRECISION WARFARE REVIEW (IPWR-22)

Precision Warfare for Great Power Competition

May 4 – 5, 2022 | Arlington, VA | [NDIA.org/IPWR22](https://ndia.org/IPWR22)

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WHO WE ARE

The National Defense Industrial Association is the trusted leader of defense and national security associations. As a 501(c)(3) corporate and individual membership association, NDIA engages thoughtful and innovative leaders to exchange ideas, information, and capabilities that lead to the development of the best policies, practices, products, and technologies to ensure the safety and security of our nation. NDIA's membership embodies the full spectrum of corporate, government, academic, and individual stakeholders who form a vigorous, responsive, and collaborative community in support of defense and national security. For more than 100 years, NDIA and its predecessor organizations have been at the heart of the mission by dedicating their time, expertise, and energy to ensuring our warfighters have the best training, equipment, and support. For more information, visit **NDIA.org**

GET INVOLVED

Learn more about NDIA's Divisions and how to join one at **NDIA.org/Divisions**



LEADERSHIP AND COMMITTEES

Mark Converse

Division Chair

Kerry Neace

Program Chair

Kurt Chankaya

Program Chair

INTEGRATED PRECISION WARFARE

WHO WE ARE

The Integrated Precision Warfare (IPW) Division (formerly known as the Precision Strike Association) provides a forum for disparate kill chain experts to convene and collaborate to advance the art and science of precision engagement, thereby sustaining the success of American warfighters and ensuring the safety of our nation. As such, IPW organizes two classified annual events formerly held by the Precision Strike Association: the Precision Strike Annual Review (PSAR) and the Precision Strike Technology Symposium (PSTS). These classified events serve as ethical, collegial vehicles for top federal and military leadership to engage with technical subject matter experts and industry leadership in a candid dialogue that seeks to solve issues along the entire kill chain. To ensure that the topics considered at these events are relevant and timely, IPW members annually visit operational U.S. military commands to gain firsthand knowledge of current operational issues facing the warfighter.

WELCOME TO THE INTEGRATED PRECISION WARFARE REVIEW (IPWR-22)

Welcome to all!

As you may know, Ken ‘Moose’ Masson turned the IPW reins over to Dan Shaffer and me in December. We are grateful to Moose for his seven years of superb leadership as the Chairman of what was the Precision Strike Association and is now NDIA’s Integrated Precision Warfare Division. He led us through the conceptualization, planning and execution of numerous successful industry roundtables, command visits and annual conferences. These events provided classified forums for kill chain experts from government, industry and academia to collaborate on the advancement of the art and science of precision engagement, thereby contributing to the security of our nation.

We believe our theme for IPWR-22 “Precision Warfare for Great Power Competition” is highly relevant in light of current global events. Our Programs Team, led by Dr. Kerry Neace and Kurt Chankaya, has put together a powerful agenda of germane speakers for this event. Each speaker will end with a Q&A period, so please be thinking of questions you may want to ask.

With a focus on DoD policy, we execute the IPWR in the May timeframe to follow the annual release of the President’s budget

request. Also relevant to the interests of our attendees, IPWR is well-timed this year to follow the DoD release of the 2022 National Defense Strategy, the Missile Defense Review, and the Nuclear Posture Review.

We are continuing to evolve our IPW organizational structure to better serve you. We plan to briefly update you on our progress during this event. Please let us know if you, both industry and government, would like to participate with us on a closer, recurring basis, in addition to attending our events. We have roles to fill on our four primary teams: Offense, Defense, Joint All-Domain Operations, and Programs. We are also looking for additional Organizational Liaisons and Service/Agency Liaisons.

Looking ahead, our Programs Team has already begun planning the agenda for our classified Precision Strike Technology Symposium in late October at JHU/APL in Laurel MD. We are also working on plans for our next industry roundtable and Command visit. Details to follow

Thank you for your continued engagement and support!

Best,
Mark ‘Stick’ Converse, IPW Division Chairman
Dan Shaffer, IPW Division Vice-Chairman

SCHEDULE AT A GLANCE

WEDNESDAY, MAY 4

General Session

Auditorium

8:30 am – 5:30 pm

Keynote Address

Auditorium

11:00 am – 12:00 pm

Keynote Address

Auditorium

3:15 – 4:15 pm

William J. Perry Award Presentation

Auditorium

5:15 – 5:30 pm

Networking Reception

Multi Purpose Room

5:30 – 6:30 pm

THURSDAY, MAY 5

General Session

Auditorium

8:30 am – 3:15 pm

EVENT INFORMATION

LOCATION

Lockheed Martin Global Vision Center
2121 Crystal Drive, Suite 100
Arlington, VA 22202

ATTIRE

Civilian: Business
Military: Uniform of the Day

SURVEY AND PARTICIPANT LIST

You will receive via email a survey and list of participants (name and organization) after the conference. Please complete the survey to make our event even more successful in the future.

EVENT CONTACT

Renata Casiel
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Director, Meetings
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George Webster
Program Manager, Divisions
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SPEAKER GIFTS

In lieu of speaker gifts, a donation is being made to the Fisher House Foundation.

PROHIBITED ITEMS

This event is classified at the Secret NOFORN level. Attendees will not be allowed to take briefcases, bags, electronic devices, or other personal property into auditoriums excluding woman's handbags; however, handbags will be inspected upon entry into all sessions. An electronic device is defined to include cell phones, two-way radios, AM/FM radios, personal digital assistants (PDAs) such as tablets, palm pilots, Fitbits, Smart Watches, and blackberries; laptop computers; cameras; video/audio recording equipment, pagers, or any other transmitting device.

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EVENT CODE OF CONDUCT

NDIA's Event Code of Conduct applies to all National Defense Industrial Association (NDIA), National Training & Simulation Association (NTSA), and Women In Defense (WID) meeting-related events, whether in person at public or private facilities, online, or during virtual events. NDIA, NTSA, and WID are committed to providing a productive and welcoming environment for all participants. All participants are expected to abide by this code as well as NDIA's ethical principles and practices. Visit [NDIA.org/CodeOfConduct](https://www.ndia.org/CodeOfConduct) to review the full policy.

IPWR-22

WEDNESDAY, MAY 4

8:30 – 8:45 am

WELCOME & OPENING REMARKS

LOCKHEED MARTIN GLOBAL VISION CENTER

Mark Converse

Chair, NDIA IPW Division

MG James Boozer, USA (Ret)

Executive Vice President, NDIA

8:45 – 9:45 am

BATTLE MANAGEMENT (ABMS)

LOCKHEED MARTIN GLOBAL VISION CENTER

Brig Gen Jeff Valenzia, USAF

Cross Functional Team Lead, Department of the Air Force Advanced Battle Management System

9:45 – 10:45 am

ARMY SAE PERSPECTIVE

LOCKHEED MARTIN GLOBAL VISION CENTER

Young Bang, SES

Principal Deputy Assistant Secretary of the Army for Acquisition, Logistics and Technology (ASA(ALT))

10:45 – 11:00 am

NETWORKING BREAK

LOCKHEED MARTIN GLOBAL VISION CENTER

11:00 – 12:00 pm

THREE I'S REQUIRED TO WIN IN GREAT POWER COMPETITION

LOCKHEED MARTIN GLOBAL VISION CENTER

VADM Bruce Lindsey, USN (Ret), PhD.

12:00 – 1:00 pm

NETWORKING LUNCH

LOCKHEED MARTIN GLOBAL VISION CENTER

1:00 – 2:00 pm

RUSSIA, UKRAINE, AND EUROPEAN SECURITY

LOCKHEED MARTIN GLOBAL VISION CENTER

Dr. Stephen Blank

Senior Fellow, Foreign Policy Research Institute

2:00 – 3:00 pm

NUCLEAR POSTURE REVIEW (NPR)

LOCKHEED MARTIN GLOBAL VISION CENTER

Tom Troyano

Vice President and Nuclear Modernization Fellow, Systems Planning and Analysis, Inc.

3:00 – 3:15 pm

NETWORKING BREAK

LOCKHEED MARTIN GLOBAL VISION CENTER

3:15 – 4:15 pm

KEYNOTE PRESENTATION: ACCELERATED DELIVERY OF HYPERSONIC CAPABILITIES TO THE WARFIGHTER

LOCKHEED MARTIN GLOBAL VISION CENTER

Mike White

Principal Director, Hypersonics, Office of the Director of Defense Research and Engineering (Modernization), Office of the Under Secretary of Defense for Research and Engineering (OUSD(R&E))

4:15 – 5:15 pm

POLICY ON TESTING OF AI SYSTEMS

LOCKHEED MARTIN GLOBAL VISION CENTER

Jon Elliott, P.E. & PMP

Chief of Test & Evaluation, Joint Artificial Intelligence Center

5:15 – 5:30 pm

PERRY AWARD & CLOSING REMARKS

LOCKHEED MARTIN GLOBAL VISION CENTER

Kurt Chankaya

Fellow, Lockheed Martin Corporation
Program Chair, NDIA IPW Division

5:30 – 6:30pm

NETWORKING RECEPTION

LOCKHEED MARTIN GLOBAL VISION CENTER

THURSDAY, MAY 5

8:30 – 8:45 am

WELCOME REMARKS

LOCKHEED MARTIN GLOBAL VISION CENTER

Joe Glebocki

Director, Aerojet Rocketdyne

8:45 – 9:45 am

NAVY WEAPONS PERSPECTIVE

LOCKHEED MARTIN GLOBAL VISION CENTER

RADM Brian Corey, USN

Program Executive Officer, Unmanned Aviation and Strike Weapons

9:45 – 10:45 am

DISTRIBUTED MARITIME OPERATIONS/LONG RANGE FIRES

LOCKHEED MARTIN GLOBAL VISION CENTER

Theodore Jung, SSTM

Senior Scientific and Technical Management, Combat Systems Architecture, Naval Surface Warfare Center Dahlgren Division (NSWCDD), Program Executive Officer Integrated Warfare Systems (PEO IWS)

10:45 – 11:00 am

NETWORKING BREAK

LOCKHEED MARTIN GLOBAL VISION CENTER

11:00 – 12:00 pm

ACQUISITION POLICY ON HYPERSONIC PERSPECTIVE

LOCKHEED MARTIN GLOBAL VISION CENTER

RDML Tom Druggan, USN

Program Executive, Aegis Ballistic Missile Defense, Missile Defense Agency

12:00 – 1:00 pm

NETWORKING LUNCH

LOCKHEED MARTIN GLOBAL VISION CENTER

1:00 – 2:00 pm

PROJECT CONVERGENCE

LOCKHEED MARTIN GLOBAL VISION CENTER

COL Toby Magsig, USA

Commander, U.S. Army Joint Modernization Command

2:00 – 3:00 pm

NATIONAL DEFENSE STRATEGY

LOCKHEED MARTIN GLOBAL VISION CENTER

Mark Cancian

Senior Advisor, International Security Program, Center for Strategic and International Studies (CSIS)

3:00 – 3:15 pm

CLOSING REMARKS

LOCKHEED MARTIN GLOBAL VISION CENTER

Mark Converse

Chair, IPW Division

The NDIA has a policy of strict compliance with federal and state antitrust laws. The antitrust laws prohibit competitors from engaging in actions that could result in an unreasonable restraint of trade. Consequently, NDIA members must avoid discussing certain topics when they are together at formal association membership, board, committee, and other meetings and in informal contacts with other industry members: prices, fees, rates, profit margins, or other terms or conditions of sale (including allowances, credit terms, and warranties); allocation of markets or customers or division of territories; or refusals to deal with or boycotts of suppliers, customers or other third parties, or topics that may lead participants not to deal with a particular supplier, customer or third party.

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Log in and complete your profile today at Jobs.NDIA.org

BIOGRAPHIES



CHRIS O'DONNELL

Acting Principal Deputy Assistant Secretary of Defense for Acquisition
Office of the Under Secretary of Defense

Mr. Chris O'Donnell currently serves at the Acting Principal Deputy Assistant

Secretary of Defense for Acquisition (PDASD(A)). In this position, he advises the Assistant Secretary of Defense for Acquisition (ASD(A)) on matters relating to the Department of Defense Acquisition System while advancing innovative, data-driven approaches across the acquisition enterprise. Mr. O'Donnell performed the duties of Assistant Secretary of Defense for Acquisition from June 2021 to February 2022.

Mr. O'Donnell was appointed to the Senior Executive Service in August 2015. He has been involved in all phases of Department of Defense acquisition, sustainment, research, and engineering since joining the defense

acquisition workforce in 1984. As the Deputy Assistant Secretary of Defense for Platform and Weapon Portfolio Management (PWPM), he is also responsible for managing and analyzing major platform and weapons capability portfolios across the Department. He served as the Executive Director of the Joint Rapid Acquisition Cell (JRAC) until March 2019. He was the Staff Specialist for the Joint Ground Robotics Enterprise prior to coming to the JRAC. He started in the Pentagon as a Staff Specialist in the JRAC providing rapid responses to warfighter needs and assisting in providing equipment to the Afghan National Defense and Security Forces. He has a Mechanical Engineering BS from Clarkson University.

Prior to coming to the Pentagon, he was the Head of the Acquisition and Technology Department, at the Naval Explosive

Ordnance Disposal Technology Division. He led a group of scientists, engineers and technicians that develop, test, acquire and maintain equipment for the over 5,000 Joint Service Explosive Ordnance Disposal (EOD) Technicians. He has received the Office of the Secretary of Defense Medals for Exceptional and Meritorious Civilian Service, two Navy Superior Civilian Service Awards, a David Packard Excellence in Acquisition Award, a Secretary of Defense Award for Excellence and a Naval Sea Systems Command Collaboration Award. He is married to Amy, the Deputy Technical Director at the Naval Surface Warfare Center, Indian Head. Their three children are Alan, a Virginia Tech Electrical Engineer; Calaa, a University of Washington Architect; and Caitie, a Clemson Electrical Engineer.



MICHAEL WHITE

Principal Director, Hypersonics
Office of the Under Secretary of Defense for Research and Engineering

Michael E. White is the Principal Director for Hypersonics (PD,H) in the Office of

the Under Secretary of Defense for Research and Engineering OUSD(R&E). In that capacity Mr. White is responsible for leading the Nation's vision and strategy for developing offensive and defensive warfighting capability enabled by hypersonic systems.

Before his current position, Mr. White was Head of the Air and Missile

Defense Sector at the Johns Hopkins University Applied Physics Laboratory where he led over 1,100 staff members developing

advanced concepts to enhance the Nation's air and missile defense (AMD) capability for programs including AEGIS, STANDARD Missile, Ship Self Defense System, Cooperative Engagement Capability, the

Surface Electronic Warfare Improvement Program, Aegis Ballistic Missile Defense and numerous other Missile Defense Agency programs.

Mr. White earned both his Bachelor of Science and Master of Science degrees in aerospace engineering from the University of Maryland. He has authored over 30 papers on hypersonic weapon system development and other defense system related topics.



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THANK YOU TO OUR HOSTS



Many thanks to the Lockheed Martin Corporation for use of their Global Vision Center (GVC) as the setting for this year's Integrated Precision Warfare Review. The Lockheed Martin GVC is a state-of-the-art meeting and collaboration facility located in Arlington, VA. It stands as an impressive 86,000 square foot engagement space with a 160-seat auditorium, seven conference rooms, and four immersive demonstration centers. From global security to commercial markets to scientific discovery, the Lockheed Martin GVC highlights how Lockheed Martin is helping the future arrive.

ABOUT LOCKHEED MARTIN

Headquartered in Bethesda, Maryland, Lockheed Martin Corporation is a global security and aerospace company that employs approximately 114,000 people worldwide and is principally engaged in the research, design, development, manufacture, integration and sustainment of advanced technology systems, products, and services.

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We solve complex challenges, advance scientific discovery, and deliver innovative solutions to help our customers keep people safe.

LOCKHEED MARTIN'S VISION

Be the global leader in supporting our customers' missions, strengthening security, and advancing scientific discovery.

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ETI EMERGING
TECHNOLOGIES
INSTITUTE

An ETI Podcast

Listen in as our nation's security experts share their personal takes on the latest defense technology.

Hosted by our resident expert Dr. Mark Lewis, Executive Director of NDIA's new Emerging Technologies Institute, our brand-new podcast takes a deep dive into how technology will shape the future of warfare.

EmergingTechnologiesInstitute.org/Podcast



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Northrop Grumman has a legacy built on providing the United States military forces and its allies with high quality, affordable and innovative products earning a worldwide reputation for performance and reliability. Our customers have come to rely on Northrop Grumman for advanced solutions that deliver strategic advantages.

Our customers must continue to address and respond to peer and near-peer threats with technology capable of not only matching but ideally exceeding these emerging threats. Our adversaries have evolved, and they are much more sophisticated in both tactics and weaponry. Through relationships that foster teamwork, Northrop Grumman works to define and develop the next generation long range highly capable survivable weapons. We explore new ways to meet or exceed our customers mission requirements across all agencies and domains. We know how important it is for warfighters to achieve mission success and maintain operational superiority.

Northrop Grumman seeks to address new challenges and find solutions that are responsible for significant increases in weapons capability and are a key factor to win in any operation or campaign.

Our charge at Northrop Grumman is “Defining Possible.” We do this by testing, challenging, and breaking through seemingly impassable technological barriers. When the superiority and survivability of our warfighters is at stake, there are no limits to where “Defining the Possible” can take us.



RECEPTION SPONSOR

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LEADING THE WAY IN ENGAGEMENT, NETWORKING, AND NATIONAL DEFENSE

PLAN AHEAD FOR SUCCESS | 2022 FEATURED MEETINGS, CONFERENCES, AND EVENTS



INTEGRATED PRECISION WARFARE REVIEW (IPWR-22)

May 4 – 5, 2022 | Arlington, VA

Acquisition and Policy | Precision Capability | Air & Missile Defense



2022 CBRN DEFENSE CONFERENCE AND EXHIBITION

July 26 – 28, 2022 | Baltimore, MD

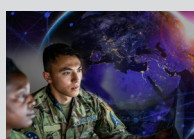
Combat Architecture | Defensive Measures | Demilitarization | Preparedness | Industrial Base



BREAKTHROUGH ENERGETICS 2022**

May 4 – 5, 2022 | West Lafayette, IN

Science & Engineering Technology | Propellants | Explosives | Modeling & Simulation



2022 SPACE WARFIGHTING INDUSTRY FORUM (SWIF)**

August 17** – 18*, 2022 |
Colorado Springs, CO

Defense Research & Development | Science & Technology



65TH ANNUAL FUZE CONFERENCE

May 10 – 12, 2022 | Renton, WA

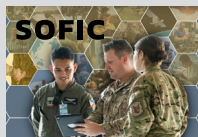
Fuze | Missiles | Munitions Technology | Safety & Arming Devices | Warheads



FUTURE FORCE CAPABILITIES CONFERENCE & EXHIBITION

September 19 – 22, 2022 | Austin, TX

Autonomous Systems | GARM | Live Fire | Multi-Domain | Small Arms | EOD



2022 SPECIAL OPERATIONS FORCES INDUSTRY CONFERENCE & EXHIBITION (SOFIC)

May 16 – 19, 2022 | Tampa, FL

Communications | Light Vehicles | Small Arms | Special Operations



UNDERSEA WARFARE FALL CONFERENCE*

September 26 – 28, 2022 | Groton, CT

Aviation USW | C4I | Mine Warfare | Undersea Sensors & Vehicles | Warfighter Performance



TRAINING & SIMULATION INDUSTRY SYMPOSIUM (TSIS)

June 15 – 16, 2022 | Orlando, FL

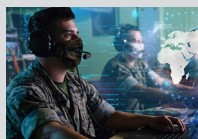
Training | Simulation | Modeling | Acquisition/Funding



25TH ANNUAL SYSTEMS & MISSION ENGINEERING CONFERENCE

November 1 – 3, 2022 | Orlando, FL

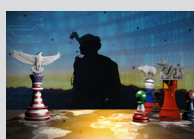
Program management, Security models, Test & evaluation, Manufacturing



2022 HUMAN SYSTEMS CONFERENCE

June 15 – 16, 2022 | Arlington, VA

Human Systems | Joint Cognitive Systems | Human Systems Integrations | Artificial Intelligence



33RD ANNUAL NDIA SO/LIC SYMPOSIUM

November 17 – 18, 2022 | Washington, DC

Special Operations Forces | Strategic Competition



2022 JADC2 & ALL DOMAIN WARFARE SYMPOSIUM**

July 11 – 13, 2022 | McLean, VA

Cyber | Cyber-Augmented Operations | Information Technology | Warfare



I/ITSEC 2022

November 28 – December 2, 2022 |
Orlando, FL

Simulation | Training | Virtual Reality

*All Classified | **Partially Classified

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