IPW
NDIA | Integrated Precision Warfare Division

25 June 2020

Introduction to
Integrated Precision Warfare
a new Division of National Defense Industrial Association

Integrated Precision Warfare (IPW), a new division of the National Defense Industrial Association (NDIA) in 2020, is a world-class organization dedicated to advancing the art and science of offensive and defensive precision engagement concepts and technologies. The IPW Division focuses on DoD's kill chains by supporting the development of systems and networks that find, fix, track, target, attack, and assess hard and soft targets via both kinetic and non-kinetic means. IPW provides an ethical environment for government, industry, and academic leaders to collaborate, promote national defense policy and strategy, rationalize capabilities with available technology, and to advocate for investment in critical science and technology. IPW is a coalition of military, government, academic and industry subject matter experts which is organized as a not-for-profit, tax-exempt division under NDIA.

Integrated Precision Warfare (IPW) Mission Statement:

Integrated Precision Warfare (IPW) Division of NDIA is the premier professional organization dedicated to advancing the art and science of precision engagement concepts and technologies. IPW's mission is to advance offensive and defensive precision engagement concepts and technologies. To facilitate this mission, IPW provides an ethical environment for government, industry, and academic leaders to:

- Communicate and collaborate on solving critical the issues facing the warfighter today and in the future
- Discuss and expound upon on national defense policy and military strategy
- Rationalize required military capabilities with the broad range of available technology and systems
- Advocate for investment in critical science and technology areas in order to further the effectiveness of precision engagement operations

IPW facilitates classified dialogue from the strategic to operational to tactical and technical levels between industry, academia and government organizations regarding our Nation's strategic competition.

- IPW builds on the success of its long-standing, NDIA-affiliated predecessors: Precision Strike Association (PSA) and Strike Air Land Attack Air Defense (SLAAD) Division
- IPW brings Military, Government, Industry and Academia to a common forum to solve issues across joint, multi-domain kill chains in the era of great power competition

- IPW provides collaborative classified venues to critically consider enabling concepts and technologies supporting the integration of force across the entire (offensive and defensive) spectrum of warfare via both kinetic and non-kinetic means

IPW is proud to continue marquee programs of its predecessors including the Annual Review, the Technology Symposium and the Executive Roundtable Sessions.

IPW Annual Review:

The IPW Annual Review is a SECRET//NOFORN conference held annually in the early spring that focuses on national-level strategy, policy, guidance, and funding priorities as they pertain to precision warfare, as well as the current and assessed near-future state of competitor nations and potential adversaries through intelligence briefings. Additionally, the Annual Review is an event where truly tough issues are tackled, including acquisition reform (success stories to learn by as well as failures and proposed solutions), adversarial technological breakouts (what we can learn from the successes of our potential adversaries and how we can catch up), shortening the development cycle (risk-informed decision-making), and many other topics.

The Annual Review provides context for the precision warfare community by inviting speakers at the top of Government leadership to explain the "so-whats" of top-level guidance such as the National Security Strategy, National Defense Strategy, National Military Strategy, Nuclear Posture Review, Missile Defense Review, Quadrennial Defense Review, National Defense Authorization Act, and other related guiding policies. The Annual Review typically features distinguished speakers from top leadership positions including the Secretary of Defense, the Vice Chairman of the Joint Chiefs of Staff, Combatant Commanders, and members of Congress.

IPW Technology Symposium

The IPW Technology Symposium is a SECRET//NOFORN event held annually in the autumn in the greater Washington DC area that focuses on the tactical and technological challenges faced by our warfighters and the industry. Technology Symposium topics include current warfighting challenges and environment, pioneering technologies from the DoD Service and National laboratories, novel strategies and concepts from industry thought leaders, and a range of other time-relevant subjects presented by a broad selection of organizations.

The Technology Symposium is contextualized through high-level leadership keynote speakers, such as 4-Star General/Flag Officers, Members of Congress, and industry leadership, as well as through timely intelligence and warfighter-based threat briefs

throughout the symposium. Guided by the topics concerning top leadership, the Technology Symposium is built around a foundation of technical briefs that showcase the up-and-coming capabilities and enabling technologies that will enable solutions to the issues the warfighter is facing today. These briefings provide value to the Services and industry and often inspire new collaborations and novel ways to utilize these capabilities. While the agenda is tailored each year to be up-to-the-minute-relevant, recurring technology categories showcased include hypersonics, air defense, networks, electronic warfare, and guided missiles.

IPW Executive Roundtable Series:

IPW Executive Roundtable events are a cornerstone of NDIA's Captains of Industry Engagement where senior Service leaders are able to have an open dialogue at the senior industry level regarding capabilities, issues, and potential solution sets. IPW Roundtables are known for providing a venue for military leaders to reach senior industry leaders/decision makers and for getting industry buy-in for on-going threat-driven, industry-informed, requirements generation efforts (i.e. the art of the possible). IPW classified roundtables typically include the Services' resource sponsors focused on "communities of interest" where industry can help provide solutions to pressing DoD challenges. Roundtables develop enhanced dialogues around the specific interests, capabilities and threats and often generate follow-on engagements through IPW large events or direct industry-Service dialogues.

IPW Awards

Perry Award

The Perry Award is named in honor of former Secretary of Defense Dr. William J. Perry and recognizes exceptional contributions to precision strike systems in the private or public sector by an individual or team. Dr. Perry served as Secretary of Defense from February 1994 to January 1997. He was Deputy Secretary of Defense from March 1993 until January 1994. Before joining the Clinton administration, Dr. Perry was chairman of Technology Strategies Alliances, a professor in the School of Engineering at Stanford University, and co-director of Stanford's Center for International Security and Arms Control. From 1977 to 1981, Dr. Perry was Undersecretary of Defense for Research and Engineering. He has received numerous awards and decorations from the U.S. and foreign governments, non-governmental organizations and the military, including the Presidential Medal of Freedom in 1997 and the U.S. Department of Defense Distinguished Service Medal in 1980 and 1981.

The Perry Award honors the immediate and long-term impact that an individual or team has had in shaping the United States precision strike combat advantage. Recipients over the two-decades since Dr. Perry received the first honor have exemplified excellence and leadership qualities that are a testament to the exemplary nature of the Precision Warfare community.

Johnson Trophy

The Richard H. Johnson Technical Achievement Award (Johnson Trophy) is named in honor of Richard H. Johnson, recognizing outstanding personal technical achievement resulting in significant contribution to precision strike systems. Dick Johnson, who was awarded the trophy posthumously, was an exemplar of such achievements, having personally led the design or redesign of many highly-effective precision strike airframes, including the Paveway LGB, HARM, Javelin, and JSOW. His designs, or imitations of them, appear in nearly every nation's military where precision strike systems are employed. Dick was a highly productive engineer whose life was marked by decades of innovation.

History - building on the strong foundation of two storied organizations:

Strike, Land Attack and Air Defense (SLAAD) Division of NDIA

Strike, Land Attack and Air Defense (SLAAD) was a Division of the National Defense Industrial Association with roots in the Anti-Air Warfare Committee (AAWC) established as a committee of NDIA in 1982. In 1989, in order to reflect the complexity of the issues being addressed by the AAWC, its name was changed to Strike, Surface and Anti-Air Warfare Committee. This change was in recognition of the importance of strike and surface warfare and their inseparability from anti-air warfare. In 1997, the Committee's name was changed to SLAAD, again to reflect the focus and interests of the Committee and its government sponsors

A hallmark of SLAAD was its robust Advisory Council made up of retired senior Navy leadership who would actively communicate the issues facing industry to DoD Leadership and report back to the SLAAD EXCOM and board the current focus areas and warfighting concerns within the Navy. SLAAD effectively utilized this impressive Advisory Council as it held quarterly meetings at member facilities across the nation and in major force concentration areas to help promote high quality interaction between Navy and industry leadership on the most pressing issues of the day.

SLAAD Mission:

- Provide an effective communications vehicle for the exchange of views and information between Navy and other elements of DoD and industry on strike, land attack and air defense
- Offer industry advice/perspectives to Navy and DoD on government policies, practices, needs and problems within the Division's purview, and conducting special studies

- Foster mutual understanding and effective working relationships between Navy and DoD and industry for the purpose of ensuring the design and production of effective and reliable equipment and systems meeting requirements at reasonable cost

Precision Strike Association (PSA), NDIA affiliate

PSA was the Force of the Nation behind the Warfighter. PSA provided a forum for disparate experts from the U.S. military, government, national laboratories, and industry in an ethical, collegial, classified environment to mesh the current and future challenges faced by the U.S. military with the art of the possible in precision strike technology. PSA's annual symposiums and reviews brought top federal and military leadership to a common forum with technical subject matter experts (SMEs) and industry leadership, enabling candid dialogue that sought to solve issues across the entire kill chain.

PSA, a proud affiliate of the NDIA since 2001, was founded as the Cruise Missile Association in 1988. Over its 30-plus year history, PSA cultivated a dedicated community of defense companies the U.S. National Labs collaborating with representation from the U.S. military services, the COCOMs, OSD, and the Joint Staff.

PSA explored opportunities to improve the ability of precision strike systems to find, fix, track, target, engage, and assess threats. Specific areas of focus included technologies and systems that accelerated the OODA loop such as C4ISR, C3, weapon system platforms, warheads, enabling technologies, and offensive and defensive cyberwarfare capabilities on precision strike.

PSA provided venues for candid and honest dialogue to share ongoing and anticipated research and development across the domain of systems and enabling technologies including precision munitions, standoff weapons including hypersonics, space domain systems, spectrum warfare, and strategic deterrence, as well as sensor technologies, fuzing, and energetics. It challenged existing technical and programmatic paradigms to ensure excellence and dynamism within the precision strike community. It also provided a medium for the identification of potential weaknesses and the solicitation for support in these areas.

PSA Mission:

PSA's primary mission was to advance the art and science of precision engagement concepts and technologies. To facilitate this mission, PSA provided an ethical environment for government, industry, and academic leaders to:

- Facilitate open communication that focused on the issues facing the warfighter
- Promote and elaborate on national defense policy and military strategy

- Rationalize required military capabilities with the broad range of available technology and systems
- Advocate for investment in critical science and technology in order to further the effectiveness of precision engagement operations

About NDIA: The National Defense Industrial Association (NDIA) is the trusted leader in defense and national security associations. For more information, visit www.ndia.org.