



**PRECISION STRIKE ASSOCIATION
PRESENTS THE 28TH ANNUAL**



PRECISION STRIKE TECHNOLOGY SYMPOSIUM

(PSTS-18)



**Sharpening America's Competitive Edge
with High Speed Precision Engagement**

October 23-25, 2018

**The Johns Hopkins University Applied Physics Laboratory
Kossiakoff Conference Center | Laurel, MD**



Symposium Will Be Conducted At **SECRET//NOFORN Level
This document is unclassified in its entirety**

**A Proud Affiliate of
NDIA**



Lieutenant General Anthony Ierardi, USA



General Mike Holmes, USAF



Honorable James "Hondo" Geurts

Welcome to PSTS-18

As DoD faces the realities of a changing world and focuses its attention to its major competitors China and Russia, the precision strike community must address enhanced lethality and modernization of key precision engagement capabilities for urgent execution of the National Defense Strategy. The theme **Sharpening America's Competitive Edge with High Speed Precision Engagement** demands serious and immediate technological innovation. PSTS-18 will allow the precision strike community the opportunity to pursue many new challenges and concerns by showcasing focus areas related to:

- Meet Major Threats & Gaps with Technologies for High-Speed Precision Engagement
- Regain Overmatch with Enhanced Lethality
- Deliver New Capabilities at the Speed of Technology
- Services' Policy and Posture and Modernization Priorities to meet the Threat
- Multi-Domain Operations / Over-the-Horizon Targeting
- Insights into the Kill Chain
- U.S. Hypersonics Landscape—Contested Environment Operations and Challenges
- Artificial Intelligence on the Edge—Implications for Precision Strike
- Strategic Readiness/Nuclear Deterrence
- Strategic Programs Technical Achievements and Challenges Session
- The Arctic Strategy

In addition to the above focus areas, keynote and featured speakers from OSD, the Joint Staff, the Services, Intelligence Community, USSTRATCOM, USSOCOM, AFSOC, PEOs, DARPA, DTRA, AFRL, AMRDEC, ACC, JHU/APL, National Labs, and Industry will address numerous riveting topics during this important and engaging three-day classified symposium including:

~ Tactical Threat Challenges—China and Russia; Integrated Allied Capabilities Enabled through Technology; Rapid and Urgent Acquisition; DARPA Adaptive Capabilities; Enhanced Precision Strike Capabilities to Support the Warfighter; The Need for Speed; F-35 Joint Strike Fighter Program Update; Autonomous Weapon Systems Panel—Sensing & Dissemination; SOF Precision Strike Effects & Digitally Aided CAS in the Battlefield; Hypersonic Programs—HAWC, HCSW & ARRW; Government-Industry Panel—Industry's Role in "Speed to the Warfighter," Conventional Prompt Strike for the Future Fight; Services' Labs—Emerging Technologies Session; Speedy Defeat of Relocatable WMD Targets; Advantages of High Capacity Precision Weapons Carriage on Bomber; and, Steadfast Protector. ~

***Special Award Ceremony
Presentation of 10th Richard H. Johnson Technical Achievement Award***



Lieutenant General Arnold Bunch, USAF



Senator Lisa Murkowski R-Alaska



Vice Admiral Mat Winter, USN



Vice Admiral Bill Merz, USN



General Hawk Carlisle, USAF (Ret)



Maj Gen Tom Masiello, USAF (Ret)

TUESDAY, 23 OCTOBER 2018

- 0700 CHECK-IN / CONTINENTAL BREAKFAST
- 0745 SYMPOSIUM WELCOME
Ken Masson—Chairman of the Board
- 0750 JHU/APL WELCOME
Dr. David Van Wie—Precision Strike Mission Area Executive, JHU/APL
- 0800 **TACTICAL THREAT CHALLENGES—CHINA & RUSSIA**
W. Victor Dymond—Air Warfare/Electronic Warfare/Cyber Acquisition Intelligence Integration Division/TAC-11, Office of Naval Intelligence (ONI)
- 0845 **AUTONOMOUS WEAPON SYSTEMS PANEL—SENSING & DISSEMINATION**
Moderator: Dr. Kerry Neace—Program Area Manager for Integrated Strike, JHU/APL
 - Office of Naval Research—Dr. Roger Sullivan
 - Air Force Research Laboratory—Joe Letsinger (SSTM)— Deputy Director, Munitions Directorate, Eglin AFB
 - JHU/APL—Dr. Brian Herdlick—Program Area Manager for Distributed Battle Management
 - DARPA—Bill Suggs—Centra Services
- 1015 NETWORKING REFRESHMENT BREAK
- 1030 **AIR FORCE HYPERSONIC PROGRAMS REVIEW**
 - HAWC (Hypersonic Air-breathing Weapon Concept)
 - HCSW (Hypersonic Conventional Strike Weapon)
 - ARRW (Air-Launched Rapid Response Weapon)
Colonel Colin Tucker, USAF—Military Deputy, Deputy Assistant Secretary for Science, Technology & Engineering, SAF/AQR
- 1115 **F-35 JOINT STRIKE FIGHTER PROGRAM UPDATE**
Vice Admiral Mat Winter, USN—Director, Joint Strike Fighter Program, Office of the Secretary of Defense
- 1200 INFORMAL LUNCHEON BUFFET—Kossiakoff Center Dining Room
- 1230 **RUSSIA & THE ARCTIC STRATEGY—VIDEO INTRODUCTION & LUNCHEON ADDRESS**
 - Senator Lisa Murkowski (R-Alaska) (Video)—Chair, U.S. Senate Energy & Natural Resources & Member, U.S. Senate Appropriations
 - Dr. Steve Blank (Remarks on Russia & The Arctic Strategy)—Senior Fellow for Russia and Internationally known Expert on Russia & the Former Soviet Union
- 1330 **RAPID AND URGENT ACQUISITION**
Chris O'Donnell (SES)—Director, Joint Rapid Acquisition Cell, Office of the Under Secretary of Defense for Acquisition and Sustainment (OUSD(A&S))
- 1415 **AIR FORCE POLICY AND POSTURE TO MEET THREAT—FASTER ACQUISITION CYCLE TO CLOSE SPEED & RANGE DEFICIT**
Lieutenant General Arnold Bunch, USAF—Deputy Assistant Secretary of the Air Force for Acquisition, Technology & Logistics
- 1515 NETWORKING REFRESHMENT BREAK



Dr. David Van Wie



Dr. Kerry Neace



Chris O'Donnell



Colonel Colin Tucker, USAF



Dr. Steve Blank

PSA Programs Chair: Ginny Sniegion

PSA Programs Vice Chair: CAPT David "Jumbo" Baird, USN

Tri-Chairs: David Uzzell (Day 1)
Dr. Kerry Neace (Day 2)
Mark Converse (Day 3)

U.S. Military & Civilian Advisors

OSD: CDR Sam "Chubs" Gray, USN & Chuck "Tooba" Kelly

Air Force: Col Mark "Smash" Van Brunt, USAF

Navy: CDR Eric "Skip" Taylor, USN & LtCol Ryan "Puddles" Thompson, USMC

Army: COL Frank Leija, USA, LTC Jeff Munn, USA & LTC Ken Britt, USA (Ret)

Marine Corps: MAJ Ryan "Spidey" Welborn, USMC

The Joint Staff: Lt Col Nathan "Vi-Dof" Diller, USAF & MAJ Dan "Otis" Harper, USAF

AGENDA



Brigadier General
James Adams,
USMC

- 1530 **ARMY FUTURES COMMAND—TOMORROW'S TECHNOLOGIES AND CONCEPTS**
Speaker TBD—Army Futures Command
- 1615 **MULTI-DOMAIN OPERATIONS / OVER-THE-HORIZON TARGETING**
Brigadier General James Adams, USMC—Director, Capabilities Development Directorate, HQMC Combat Development and Integration
- 1700 **EVENING RECEPTION WITH HEAVY HORS D'OEUVRES**

WEDNESDAY, 24 OCTOBER 2018



Rear Admiral
Brian Corey, USN



Rear Admiral
Brian Losey,
USN (Ret)

- 0700 **CHECK-IN / CONTINENTAL BREAKFAST**

- 0745 **INSIGHTS INTO THE KILL CHAIN—SOF PRECISION STRIKE EFFECTS**
- Colonel Matthew Allen, USAF—Commander, 720th Special Tactics Group, 24th Special Operations Wing, Air Force Special Operations Command (AFSOC), Hurlburt Field
 - Senior Master Sergeant Jared “Peaches” Pietras, USAF—SOCCENT J3, Tampa

- 0830 **KEYNOTE ADDRESS—REGAINING OVERMATCH WITH ENHANCED LETHALITY & ASSAULT BREAKER II INITIATIVE OVERVIEW**
Major General Tom Masiello, USAF (Ret)—Director, Adaptive Capabilities Office (ACO), Defense Advanced Research Projects Agency (DARPA)

- 0915 **NETWORKING REFRESHMENT BREAK**

- 0930 **PEO PERSPECTIVE—TECHNOLOGIES FOR HIGH-SPEED PRECISION ENGAGEMENT**
Rear Admiral Brian Corey, USN—PEO for Unmanned Aviation and Strike Weapons

- 1010 **U.S. HYPERSONIC LANDSCAPE—CONTESTED ENVIRONMENT OPERATIONS AND CHALLENGES**
Dr. Gillian Bussey (SES)—Office of the Under Secretary of Defense for Research and Engineering, (OUSD(R&E))

- 1050 **THE NEED FOR SPEED**
Dr. Dean Wilkening—Senior Professional Staff Member, JHU/APL

- 1130 **LUNCHEON—Kossiakoff Center Dining Room**

- 1210 **RICHARD H. JOHNSON TECHNICAL ACHIEVEMENT AWARD CEREMONY**
- Presentation of Tenth Annual Richard H. Johnson Technical Achievement Award
 - Remarks by Honoree Carl Avila, Boeing Phantom Works

- 1230 **SUPPORTING THE KILL CHAIN THROUGH RESILIENT COMMUNICATIONS IN HIGHLY CONTESTED ENVIRONMENTS**
Dr. Steve Walker—Strategy & Business Development, Electronic Systems Avionics Business Unit, Harris

- 1315 **ARTIFICIAL INTELLIGENCE (AI) ON THE EDGE—IMPLICATIONS FOR PRECISION STRIKE**
Rear Admiral Brian Losey, USN (Ret)—Partner, Shield AI, Inc.

- 1400 **NETWORKING REFRESHMENT BREAK**



Dr. Dean
Wilkening



Carl Avila



Colonel
Matthew
Allen, USAF



Senior Master
Sergeant Jared
Pietras, USAF

- 1415 **NAVY POLICY AND POSTURE TO MEET THREAT – FASTER ACQUISITION CYCLE TO CLOSE SPEED & RANGE DEFICIT**
Honorable James “Hondo” Geurts—Assistant Secretary of the Navy for Research, Development, and Acquisition
- 1515 **NETWORKING REFRESHMENT BREAK**
- 1530 **GOVERNMENT-INDUSTRY PANEL – INDUSTRY’S ROLE IN “SPEED TO THE WARFIGHTER”**
Moderator: General Hawk Carlisle, USAF (Ret)—President and CEO, National Defense Industrial Association
 - General Mike Holmes, USAF—Commander, Air Combat Command (ACC), Joint Base Langley-Eustis
 - Vice Admiral Bill Merz, USN—Deputy Chief of Naval Operations for Warfare Systems (OPNAV N9)
 - Major General Dave “Limo” Scott, USAF (Ret)—Vice President, Business Development, Advanced Missile Systems, Raytheon Missile Systems
 - Rear Admiral Mike Manazir, USN (Ret)—Vice President, Navy Systems, DSS Group, Government Operations, The Boeing Company
- 1730 **MIXER WITH LIGHT HORS D’OEUVRES**



Rear Admiral Mike Manazir, USN (Ret)



Major General Dave Scott, USAF (Ret)

THURSDAY, 25 OCTOBER 2018

- 0700 **CHECK-IN / CONTINENTAL BREAKFAST**
- 0730 **SERVICES’ LABORATORIES – EMERGING TECHNOLOGIES**
 - Session Chair—Scene Setter Overview
Ken Masson—Northrop Grumman Corporation Innovation Systems
 - Office of Naval Research
Dr. David Walker (SES)—Portfolio Director, Office of SECNAV
 - Air Force Research Laboratory
Joseph Letsinger (SSTM)—Deputy Director, Munitions Directorate, Eglin AFB
 - U.S. Army Aviation & Missile RD&E Center (AMRDEC)
Rob Esslinger—Deputy, Fire Support Capability, Redstone Arsenal
- 0845 **KEYNOTE ADDRESS – SHARPENING AMERICA’S COMPETITIVE EDGE**
Lieutenant General Anthony R. Ierardi, USA—Director for Force Structure, Resources, and Assessment, J-8, The Joint Staff
- 0930 **NETWORKING REFRESHMENT BREAK**
- 0945 **CONVENTIONAL PROMPT STRIKE (CPS) FOR THE FUTURE FIGHT**
Dr. Joe Doychak—Acting CPS Program Manager, OUSD(R&E)



Ken Masson



Dr. David Walker



Joseph Letsinger



Rob Esslinger



Dr. Joe Doychak

For agenda questions, contact:
Programs Chair, Ginny Sniegion, 703-575-6653, vsniegon@ida.org

AGENDA



Colonel
George Holland,
USAF



Lieutenant
Colonel Todd
Scherm
USAF (Ret)

1030 **ADVANTAGES OF HIGH CAPACITY PRECISION WEAPONS CARRIAGE ON BOMBERS**

Lieutenant Colonel Todd Scherm, USAF (Ret)—Advanced Programs, B-52 & Air Launched Cruise Missile, The Boeing Company (Formerly 49th Test & Evaluation Squadron)

1115 **INFORMAL LUNCHEON BUFFET**—Kossiakoff Center Dining Room

1200 **STANDOFF MUNITIONS APPLICATION CENTER—COMBAT DEBUT & BEYOND**

Colonel George Holland, III, USAF—Commander, Standoff Munitions Application Center

1230 **SPEEDY DEFEAT OF RELOCATABLE WMD TARGETS**

- Lieutenant Colonel Robert Oakes, USAF—Counter WMD Technologies Department, Defense Threat Reduction Agency (DTRA)
- Lieutenant Colonel Douglas Guard, USA—Counter WMD Technologies Department, Defense Threat Reduction Agency (DTRA)



Lieutenant
Colonel Robert
Oakes, USAF



Lieutenant
Colonel Douglas
Guard, USA

1315 **STRATEGIC PROGRAMS TECHNICAL ACHIEVEMENTS AND CHALLENGES**

- **Session Chair—Scene Setter Overview**
Jeff Braun—Scientific Advisor, Joint Staff/J5/StS/Strategic Deterrence & Nuclear Policy
- **Columbia-Class Ballistic Missile Submarine**
Captain Thomas Shugart, III, USN—OPNAV N971
- **Ground-Based Strategic Deterrent (GBSD)**
Colonel Jason Bartolomei, USAF—GBSD Systems Program Manager, Air Force Nuclear Weapons Center, Hill AFB

1415 **CLOSING REMARKS**

Ken Masson—Chairman of the Board



Jeff Braun



Colonel Jason
Bartolomei, USAF



Captain Thomas
Shugart, III, USN

PSTS-18 WILL ADDRESS WHAT LEADERS WANT US TO KNOW ABOUT

Participate all 3 Days in Not-to-Miss Sessions Focused on:

- Threat and Posture
- DoD Faster Response
- Hi-Speed Technology Response
- Autonomous Weapons Systems
- Technologies Ahead
- Strategic Readiness / Nuclear Deterrence
- Strategic Program technical Achievements & Challenges