

PRECISION STRIKE ASSOCIATION
presents the 28th annual
PRECISION STRIKE TECHNOLOGY SYMPOSIUM (PSTS-18)

Sharpening America's Competitive Edge with High Speed Precision Engagement

23-25 OCTOBER 2018

THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY
KOSSIAKOFF CONFERENCE CENTER * LAUREL, MD

PSTS-18 will be conducted at the **SECRET//NOFORN** Classification Level
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PSA Programs Chair: Ginny Sniegon

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: Lt 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

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:**
JC Lede—Technical Advisor for Autonomy, Munitions Directorate, Eglin AFB
 - **JHU/APL:**
Dr. Bryan 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. Stephen Blank (Remarks on Russia & The Arctic Strategy)**—Senior Fellow for Russia – an 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 W. Bunch JR., USAF—Deputy Assistant Secretary of the Air Force for Acquisition, Technology & Logistics
- 1515 REFRESHMENT BREAK**

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 FOR ALL PARTICIPANTS

WEDNESDAY, 24 OCTOBER 2018

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—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**

1230 SUPPORTING THE KILL CHAIN THROUGH RESILIENT COMMUNICATIONS IN HIGHLY CONTESTED ENVIRONMENTS:

Dr. Steve Walker—Strategy & Business Development, ESABU, 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

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 of NDIA

- **General Mike Holmes, USAF**—Commander, Air Combat Command (ACC), Joint Base Langley-Eustis
- **Vice Admiral Bill Merz, USN**—OPNAV, N-9
- **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

THURSDAY, 25 OCTOBER 2018

0700 CHECK-IN / CONTINENTAL BREAKFAST

0730 SERVICES’ LABORATORIES—EMERGING TECHNOLOGIES:

- **Session Chair—Scene Setter Overview:**
Ken Masson—Northrop Grumman Corp. (NGC) 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)
- 1015 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 Co. (Formerly 49th Test & Evaluation Squadron)
- 1045 KEYNOTE—STRATEGIC READINESS/NUCLEAR DETERRENCE:**
General Stephen Wilson, USAF (Invited)—Vice Chief of Staff of the Air Force
- 1130 INFORMAL LUNCHEON BUFFET—Kossiakoff Center Dining Room**
- 1215 STANDOFF MUNITIONS APPLICATION CENTER—COMBAT DEBUT & BEYOND:**
Colonel George Holland III, USAF—Commander, Standoff Munitions Application Center
- 1245 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)
- 1330 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 H. 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
- 1430 CLOSING REMARKS**
Ken Masson—Chairman of the Board