

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 & MAJ 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 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 MEETING MAJOR THREATS AND GAPS:

Lieutenant General Bradley A. Becker, USA—Transitioning from Director, Office of Security Cooperation-Iraq, USCENTCOM to Commanding General, Installation Management Command, Fort Sam Houston, San Antonio, TX

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 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
- **Commander David Slayton, USN (Ret) (Luncheon Address)**—Research Fellow, Arctic Security Initiative Lead, Hoover Institution, Stanford University

1315 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))

1400 REFRESHMENT BREAK

1410 NAVY/AIR FORCE—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
- **Lieutenant General Arnold W. Bunch JR., USAF**—Deputy Assistant Secretary of the Air Force for Acquisition, Technology & Logistics

1535 REFRESHMENT BREAK

1545 ARMY FUTURES COMMAND—TOMORROW’S TECHNOLOGIES AND CONCEPTS:

General John “Mike” Murray, USA—Commander, Army Futures Command

- 1630 MULTI-DOMAIN OPERATIONS / OVER-THE-HORIZON TARGETING:**
Brigadier General James Adams, USMC—Director, Capabilities Development Directorate, HQMC Combat Development and Integration
- 1720 ASSAULT BREAKER II INITIATIVE OVERVIEW:**
Major General Tom Masiello, USAF (Ret)—Director, Adaptive Capabilities Office (ACO), Defense Advanced Research Projects Agency (DARPA)
- 1800 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:**
Dr. Steve Walker (SES)—Director, 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. HYPERSONICS LANDSCAPE—CONTESTED ENVIRONMENT OPERATIONS AND CHALLENGES:**
Dr. Joe Doychak (SES)—Office of the Under Secretary of Defense for Research and Engineering, (OUSD(R&E))
- 1050 INTEGRATED ALLIED CAPABILITIES ENABLED THROUGH TECHNOLOGY:**
Alan Shaffer—Former Director of NATO Science & Technology, NATO Collaboration Support Office; Nominated to be Deputy Under Secretary of Defense for Acquisition and Sustainment, OUSD(A&S)
- 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**

1230 ENHANCED ELECTRONIC WARFARE CAPABILITIES TO SUPPORT THE WARFIGHTER:
Dr. William Conley (SES)—Deputy Director for Electronic Warfare, OUSD for Acquisition and Sustainment

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 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:**
J. C. Lede—Technical Advisor for Autonomy, Munitions Directorate, Eglin AFB
- **JHU/APL:**
Dr. Bryan Herdlick—Program Area Manager for Distributed Battle Management
- **U.S. Army:**
Speaker TBD

1545 NETWORKING REFRESHMENT BREAK

1600 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 (invited)**—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

1800 MIXER WITH LIGHT HORS D’OEUVRES

THURSDAY, 25 OCTOBER 2018

0700 CHECK-IN / CONTINENTAL BREAKFAST

0745 “THE NEED FOR SPEED”:
Dr. Dean Wilkening—Senior Professional Staff Member, JHU/APL

0815 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

0930 NETWORKING REFRESHMENT BREAK

0945 CONVENTIONAL PROMPT STRIKE (CPS) FOR THE FUTURE FIGHT:

Dr. Walter Rutledge—CPS Technical Advisor, OUSD(R&E)/SSI/Space & Prompt Strike

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:

Lieutenant General Richard M. Clark, USAF (Invited)—Transitioning from Commander, 3rd Air Force, Ramstein Air Base, Germany to Deputy Chief of Staff for Strategic Deterrence & Nuclear Integration (A10), HQ USAF

1130 INFORMAL LUNCHEON BUFFET—Kossiakoff Center Dining Room

1215 STEADFAST PROTECTOR:

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**

Speaker TBD

- **Ground-Based Strategic Deterrent (GBSD)**

Colonel Jason Bartolomei, USAF—GBSD Systems Program Manager, Air Force Nuclear Weapons Center, Hill AFB

- **Long-Range Standoff (LRSO) Missile**

Speaker TBD

1500 CLOSING REMARKS

Ken Masson—Chairman of the Board