

PRECISION STRIKE ASSOCIATION
presents the 27th annual
PRECISION STRIKE TECHNOLOGY SYMPOSIUM (PSTS-17)

Precision Effects and Technologies in the Current & Future Contested Environments

24-26 OCTOBER 2017

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

PSTS-17 will be conducted at the **SECRET//NOFORN** Classification Level
This document is unclassified in its entirety

PSA Programs Chair: Ginny Sniegon

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

Official Kickoff Chair: Dr. John Walter

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

U.S. Military & Civilian Advisors

OSD: CAPT David "Jumbo" Baird, USN & Chuck "Tooba" Kelly

Air Force: Col Steve "Dallas" Horton, USAF & Col John Martin, USAF

Navy: CDR James "Sleestak" Reeve, USN & MAJ Ryan "Puddles" Thompson, USMC

Army: LTC Terry Clark, USA & LTC Ken Britt, USA (Ret)

Marine Corps: MAJ Ryan "Spidey" Welborn, USMC

The Joint Staff: Major Dan "Otis" Harper, USAF

TUESDAY, 24 OCTOBER 2017

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 INTELLIGENCE ASSESSMENT OF CRITICAL THREATS AND CHALLENGES—MIDDLE EAST, RUSSIA, IRAN, CHINA AND NORTH KOREA:
Joe Gigliotti (SES)—Deputy Director, Current Analysis & Warning, DIA / JCS (J-2),
The Joint Staff

- 0845 HYPERSONIC WEAPON THREAT:**
Dr. Giallium Bussey—IC
- 0915 TARGETING SUPPORT FOR FUTURE WARFARE ENGAGEMENT:**
Donald Perkins—Director of Operations, 363rd Intelligence, Surveillance and Reconnaissance Group, Air Combat Command, Joint Base Langley-Eustis
- 0945 NETWORKING REFRESHMENT BREAK**
- 1000 KEYNOTE ADDRESS—SHAPING THE GEO-STRATEGIC SECURITY ENVIRONMENT:**
Major General William C. Hix, USA—Director of Strategy, Plans & Policy, Office of DCS, G-3/5/7, U.S. Army
- 1045 COUNTER-UNMANNED AERIAL SYSTEMS (C-UAS):**
Dr. Jon Ward—Senior Professional Staff Member, JHU/APL
- 1115 ELECTRONIC WARFARE—FUTURE DIRECTION/PROGRAMMATIC IMPACTS:**
Dr. William Conley (SES)—Deputy Director for Electronic Warfare, OUSD(AT&L)
- 1200 INFORMAL LUNCHEON BUFFET—Kossiakoff Center Dining Room**
- 1230 LUNCHEON ADDRESS—LESSONS OF AMERICA’S VICTORY IN THE COLD WAR:**
Dr. Peter Huessy—President, GeoStrategic Analysis
- 1315 STRATEGIC CAPABILITY DEVELOPMENT—CREATING THE FUTURE FORCE:**
Vincent Sabio—Program Manager, Strategic Capabilities Office (SCO)
- 1400 KEYNOTE ADDRESS—NUCLEAR DETERRENT MODERNIZATION & STRATEGIC STABILITY:**
General Stephen W. “Seve” Wilson, USAF—Vice Chief of Staff of the U.S. Air Force
- 1445 NETWORKING REFRESHMENT BREAK**
- 1500 INNOVATIONS FOR THE NEXT GENERATION STRIKE CAPABILITY:**
Rear Admiral Mark Darrah, USN—PEO for Unmanned Aviation and Strike Weapons
- 1545 NAVY’S FUTURE ANTI-SHIP CAPABILITY:**
Captain John Dougherty, USN—PM, Precision Strike Weapons Program Office, PMA-201
- 1615 F-35 IN THE HIGH END VS PERMISSIVE FIGHTS:**
Vice Admiral Mat Winter, USN—F-35 Program Executive Officer
- 1700 EVENING RECEPTION WITH HEAVY HORS D’OEUVRES**

WEDNESDAY, 25 OCTOBER 2017

0700 CHECK-IN / CONTINENTAL BREAKFAST

0800 PANEL—PRECISION ENGAGEMENT IN THE CURRENT FIGHT:

Moderators: Captain David “Jumbo” Baird, USN & Charles “Tooba” Kelly—Office of Tactical Warfare Systems, OUSD(AT&L)

- **Commander Andrew “Grand” Mariner, USN**—TOPGUN CO, TOPGUN Air-to-Surface SME, Naval Air Warfare Development Center (NAWDC)
- **Lieutenant “Twerk” Elder, USN**—TOPGUN Air-to-Surface SME
- **Major William “Rasheed” Wallace, USMC**—H-1 Requirements (APW-53), HQMC
- **Speaker TBD**—Fighter Weapons School (FWS)
- **Deployed Officer TBD**—Fire Center of Excellence (FCoE) Fort Sill

0945 NETWORKING REFRESHMENT BREAK

1000 PRECISION STRIKE CAPABILITIES INTO THE FUTURE TO SUPPORT THE WARFIGHTER:
Colonel Melissa “Mojo” Johnson, USAF—PEO for Fixed Wing Programs, USSOCOM

1045 SOF PRECISION STRIKE EFFECTS:

Brigadier General William “Bill” Holt II, USAF—Director of Operations, Headquarters Air Force Special Operations Command (AFSOC), Hurlburt Field

1115 SPECIAL OPERATIONS AND THE FUTURE OF USAF SPECIAL TACTICS:

Colonel Spencer Cocanour, USAF—Vice Commander, 24th Special Operations Wing, AFSOC, Hurlburt Field

1140 DIGITALLY AIDED CAS IN THE BATTLEFIELD:

Master Sergeant Jared “Peaches” Pietras, USAF—Chief of Weapons & Tactics, 23rd Special Tactics Squadron, AFSOC, Hurlburt Field

1200 DEFENSE AGAINST HYPERSONIC WEAPONS:

Dr. Larry Jones—Distinguished Member of Technical Staff, Sandia National Laboratories

1230 LUNCHEON—Kossiakoff Center Dining Room

1300 RICHARD H. JOHNSON TECHNICAL ACHIEVEMENT AWARD CEREMONY

- **Presentation of Ninth Annual Richard H. Johnson Technical Achievement Award to Scott O’Neil**—previous NAVAIR Executive Director, Research & Engineering, NAWC-WD
- **Honorable Bob Work**—Special Remarks by former Deputy Secretary of Defense
- **Scott O’Neil**—Special Remarks

- 1330 DEFENSE LEADERSHIP PANEL—PRECISION ENGAGEMENT IN THE FUTURE FIGHT:**
Moderator: Dr. James Stevens (SES)—Deputy Director for Studies and Analysis, Joint Staff Force Structure, Resources and Assessment Directorate (J-8)
- **Air Force: Daniel Bishop (SES)**—Deputy Director, Operational Capability Requirements, HQ USAF/A5R
 - **Army: Major General Brian McKiernan, USA (Tentative)**—Commanding General, U.S. Army Fires Center of Excellence Fort Sill
 - **Navy: Anjanette Knappenberger (SES)**—Deputy Director of Air Warfare (N98B) for the Deputy Chief of Naval Operations Warfare Systems (N9), OPNAV
 - **Marine Corps: Brigadier General (Sel) James Adams, USMC**—Director, Capabilities Development Directorate, HQMC Combat Development and Integration

1515 NETWORKING REFRESHMENT BREAK

- 1530 ROADMAP FOR OFFENSIVE & DEFENSIVE HYPERSONIC CAPABILITIES — JOINT INDUSTRY/GOVERNMENT SESSION:**
Session Chair—Scene Setter Overview:
Captain Jaime Engdahl, USN (Ret)—Director, Hypersonic Weapons Development, Northrop Grumman Corporation
- **Conventional Prompt Strike (CPS):**
 - **Colonel David Buchanan, USAF (Tentative)**—Deputy Director for Space and Prompt Strike, OUSD(AT&L)
 - **Tactical Boost Glide System & Hypersonic Air-Breathing Weapon Concept (HAWC):**
 - **Major Amber Walker, USA, PhD**—Program Manager, Tactical Technology Office, Defense Advanced Research Projects Agency (DARPA)
 - **Mark Gustafson**—Program Manager, HAWC, DARPA
 - **Air Force Research Laboratory Hypersonic Technologies Overview:**
 - **AFRL Program Manager, PhD**—Munitions Directorate, Eglin AFB
 - **Panel—Offensive Hypersonic Weapon Concepts & Counter Hypersonics:**
 - **Dr. Artie Mabbett**—Director, High Speed Weapons, Raytheon Missile Systems
 - **Dr. Kevin Bowcutt**—Senior Technical Fellow & Chief Scientist of Hypersonics, The Boeing Company
 - **Eric Knutson**—Director, Advanced Projects, Lockheed Martin
 - **Dr. Beach Wilcox**—VP, Advanced Programs and Technology, Orbital ATK

1800 MIXER WITH LIGHT HORS D’OEUVRES

THURSDAY, 26 OCTOBER 2017

0700 CHECK-IN / CONTINENTAL BREAKFAST

0730 **ADVANCED TECHNOLOGIES & UPCOMING DEVELOPMENTS—NATIONAL LABS:**

- **Session Chair—Scene Setter Overview:**

Jeff Braun—Weapon Subsystems Electrical Engineer, Sandia National Laboratories

- **Dr. John Richards**—Sensor Exploitation Applications Department Distinguished Member, Sandia National Laboratories

Topic: Sensor Exploitation for Autonomy at Sandia

- **Andy Erickson**—Deputy Principal Associate Director, Global Security Programs, Los Alamos National Laboratory

Topic: Advanced Concepts in Predictive Analytics for Precision Strike Applications

- **Dr. Mike Carter**—Program Director for DoD Technology Programs, Lawrence Livermore National Laboratory

Topic: Directed Energy for Strategic Defense Applications

0830 **CHALLENGES AND OPPORTUNITIES FOR MOBILE MISSILE DEFEAT TECHNOLOGY DEVELOPMENT:**

Dr. Bob Hastie—Technical Director, Weapons & Capabilities Office, Defense Threat Reduction Agency (DTRA)

0915 NETWORKING REFRESHMENT BREAK

0930 **U.S. PACIFIC FLEET POSTURE—COUNTERING CHINA’S COMPETITIVE ADVANTAGE:**

Commander Kevin McHale, USN—N22, Intelligence & Information Operations, U.S. Pacific Fleet

1100 **LAND BASED ANTI-SHIP CAPABILITIES FROM LONG RANGE:**

Michael Turner—Fires Capability Area Lead, RDMR-WDS-MT-T, Redstone Arsenal

1130 **UNIQUE CHALLENGES AND INNOVATIVE SOLUTIONS FOR MAXIMUM IMPACT:**

Colonel Garry Haase, USAF—Director, Munitions Directorate, Air Force Research Laboratory, Eglin AFB

1215 **INFORMAL LUNCHEON BUFFET—Kossiakoff Center Dining Room**

1245 **LUNCHEON ADDRESS—RADICAL ISLAMIC TERRORISM:**

Lieutenant General Tom McInerney, USAF (Ret)

1330 NAVY REQUIREMENTS DEEP DIVE PANEL:

Moderator: Vice Admiral Bill Merz, USN (Invited)—Director, Warfare Systems Integration (N9), OPNAV

- **Rear Admiral Ron Boxall, USN (Invited)**—Director, Surface Warfare (N96), OPNAV
- **Rear Admiral David Hahn, USN (Invited)**—Chief of Naval Research (N94), OPNAV
- **Rear Admiral Doug Small, USN (Invited)**--PEO for integrated Warfare Systems
- **Captain Richard “ Snap” Brophy, USN (Confirmed)**—Office of Air Warfare (N98S), OPNAV

1430 NETWORKING REFRESHMENT BREAK

1445 TOMAHAWK—Maritime Version:

Captain Vernon “John” Red, USN—IPT Lead for Maritime Strike Tomahawk (PMA-280)

1530 KEYNOTE ADDRESS—ADMINISTRATION’S DEFENSE REBUILD PRIORITIES:

General Paul J. Selva, USAF (Tentative)—Vice Chairman of the Joint Chiefs of Staff

1630 CLOSING REMARKS

Ken Masson—Chairman of the Board