

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: CDR 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: CDR 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)—DD, Current Analysis & Warning, Intelligence Directorate (J-2), The Joint Staff

- 0845 HYPERSONIC WEAPON THREAT:**
Dr. Giallimum Bussey—IC
- 0915 TARGETING SUPPORT FOR FUTURE WARFARE ENGAGEMENT:**
Lieutenant Colonel Jamil Syed, USAF—Deputy Director of Operations, 363rd ISR Group,
 Air Combat Command, Langley
- 0945 NETWORKING REFRESHMENT BREAK**
- 1000 KEYNOTE ADDRESS—ADMINISTRATION’S DEFENSE REBUILD PRIORITIES:**
Speaker TBD
- 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

0730 **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

0815 **PANEL—PRECISION ENGAGEMENT IN THE CURRENT FIGHT:**
Moderators: Commander David “Jumbo” Baird, USN & Charles “Tooba” Kelly—Office of Tactical Warfare Systems, OUSD(AT&L)

- **Speaker TBD**—Naval Air Warfare Development Center (NAWDC)
- **Speaker TBD**—Marine Air Weapons & Tactics School (MAWTS)
- **Speaker TBD**—Fighter Weapons School (FWS)
- **Deployed Officer TBD**—Fire Center of Excellence (FCoE) Fort Sill

1000 NETWORKING REFRESHMENT BREAK

1015 **PRECISION STRIKE CAPABILITIES INTO THE FUTURE TO SUPPORT THE WARFIGHTER:**
Colonel Melissa “Mojo” Johnson, USAF—PEO for Fixed Wing Programs, USSOCOM

1100 **SOF PRECISION STRIKE EFFECTS:**
Brigadier General Sean Farrell, USAF—Director for Strategic Plans, Programs & Requirements, Air Force Special Operations Command (AFSOC), Hurlburt Field, FL

1140 **DIGITALLY AIDED CAS IN THE BATTLEFIELD:**
Master Sergeant Jared Pietras, USAF—Chief of Weapons & Tactics, 23rd Special Tactics Squadron, AFSOC

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 Richard H. Johnson Award for Technical Excellence in the Field of Precision Strike** – Award winner to be announced Mid-SEP
- **Remarks by Award Recipient**

- 1330 DEFENSE LEADERSHIP PANEL—PRECISION ENGAGEMENT IN THE FUTURE FIGHT:**
Moderator: Brigadier General David Krumm, USAF—Deputy Director for Requirements & Capability Development (J-8), The Joint Staff
- **Air Force: Major General Clinton Crosier, USAF**—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: Rear Admiral DeWolfe Miller III, USN (Tentative)**—Director, Air Warfare (N98)
 - **Marine Corps: Brigadier General Bradford Gering, USMC (Invited)**—Assistant Deputy Commandant for Aviation
- 1515 NETWORKING REFRESHMENT BREAK**
- 1530 CONVENTIONAL PROMPT STRIKE (CPS):**
Colonel David Buchanan, USAF (Tentative)—Deputy Director for Space and Prompt Strike, OUSD(AT&L)
- 1600 ROADMAP FOR OFFENSIVE & DEFENSIVE HYPERSONIC CAPABILITIES — JOINT INDUSTRY/GOVERNMENT SESSION:**
Session Chair—Scene Setter Overview:
Captain Jaime Engdahl, USN (Ret)—Director for Hypersonic Weapon Development, Northrop Grumman Corp.
- **Tactical Boost Glide System & Hypersonic Air-Breathing Weapon Concept (HAWC):**
 - **Major Amber Walker, USA**—Program Manager, Tactical Technology Office, Defense Advanced Research Projects Agency (DARPA)
 - **Mark Gustafson**—Program Manager, HAWC, DARPA
 - **AFRL Hypersonic Technologies Overview:**
 - **Air Force Research Laboratory Speaker**—Munitions Directorate Office
 - **Panel—Offensive Hypersonic Warhead Concepts & Counter Hypersonics:**
 - **Dr. Artie Mabbett**—Director, High Speed Weapons, Raytheon Missile Systems
 - **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

- **Speaker TBD**—Los Alamos National Laboratory

Topic: TBD

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

Topic: Directed Energy for Strategic Defense Applications

0830 **AUTONOMY-ENABLED SYSTEMS TO SUPPORT COUNTER-WMD MISSION:**

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:**

Captain 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

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: Rear Admiral Bill Merz, USN—Director, Warfare Systems Integration (N9), OPNAV

- **Rear Admiral DeWolfe Miller, USN**—Director, Air Warfare (N98), OPNAV
- **Rear Admiral Ron Boxall, USN**—Director, Surface Warfare (N96), OPNAV
- **Steve Cade (SES)**—Director, Fleet Capabilities & Force Development, US Fleet Forces Command (FFC N8)
- **Dave Yoshihara**—Director, Warfare Assessment & Readiness, USPACFLT (N9)

1500 NETWORKING & DISCUSSION REFRESHMENT BREAK

1545 NAVY REQUIREMENTS DEEP DIVE PANEL (continued):

Moderator: Rear Admiral David Hahn, USN—Commander, Naval Research

- **Rear Admiral Mike Moran, USN**—PEO for Tactical Aircraft
- **William Buchanan (SES)**—Deputy PEO for Strike Weapons
- **Rear Admiral Doug Small, USN**—PEO for Integrated Warfare Systems
- **Speakers TBD**—PMA-PMS
- **Speakers TBD**—Navy Warfare Development Centers

1730 CLOSING REMARKS

Ken Masson—Chairman of the Board