

PRECISION STRIKE ASSOCIATION
presents the 25th annual
PRECISION STRIKE TECHNOLOGY SYMPOSIUM (PSTS-15)

Precision Strike Priorities to Meet Global Challenges
27-29 OCTOBER 2015

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

PSTS-15 will be conducted at the **SECRET//NOFORN** Classification Level
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PSA Programs Chair: Ginny Sniegon
PSA Programs Vice-Chair: CAPT Sonic Hejmanowski, USN
Tri-Chairs: Kerry Neace (Day 1)—CAPT Larry Burt, USN (Ret) (Day 2)—Marc Tang (Day 3)
U.S. Military & Civilian Advisors
OSD: CAPT Sonic Hejmanowski, USN & Chuck Kelly
Air Force: Col Greg Payne, USAF
Navy: CDR Jojo Wilson, USN
Army: LTC Nathan Fischer, USA & LTC Ken Britt, USA (Ret)
Marine Corps: MAJ Thriller Schiller, USMC
The Joint Staff: Lt Col Ammo Friedel, USAF

TUESDAY, 27 OCTOBER 2015

- 0700 CHECK-IN / CONTINENTAL BREAKFAST**
- 0750 SYMPOSIUM WELCOME:**
Ken Masson—Chairman of the Board
- 0755 JHU/APL WELCOME:**
Timothy Galpin—Assistant Director, Johns Hopkins University Applied Physics Lab
- 0800 PRECISION STRIKE CHALLENGES KICK-OFF:**
Captain Jaime Engdahl, USN—PM, Precision Strike Weapons Program Office, PMA-201
John Marino—Mission Area Lead Integrator for Surface & Strike Weapons, PEO(U&W)
- 0830 CHALLENGES TO SUSTAIN OUR TECHNOLOGICAL EDGE:**
Honorable Christine Fox—Assistant Director, JHU/APL & former Acting Deputy Secretary of Defense
- 0910 CYBER THREAT CONCERNS FOR FUTURE WARFARE ENGAGEMENT:**
Donna Gregg—Asymmetric Operations Sector, Sector Head, JHU/APL
- 0950 NETWORKING REFRESHMENT BREAK**
- 1015 INNOVATIVE APPROACHES TO WARFIGHTING:**
Dr. Will Roper—Director, Strategic Capabilities Office, OSD

TUESDAY, 27 OCTOBER 2015 (continued)

- 1100 INTELLIGENCE ASSESSMENT UPDATE—SET THE SCENE:**
Lead: **Dr. Sean Kirkpatrick**—DIO for Scientific & Technical Intelligence, DIA
China/Russia/Iran/North Korea/Non-State (ISIS, AQ...)—Overview of Foreign Capabilities, Doctrine and Intent:
Frank Miller—DIO East Asia, DIA
Tim Shea—DIO Eurasia, DIA
Speaker on Syria/ISIL/Iran TBD —DIO Middle East/North Africa, DIA
- 1200 INFORMAL LUNCHEON BUFFET—Kossiakoff Center Dining Room**
- 1245 KEYNOTE ADDRESS—INNOVATIONS & TECHNOLOGIES FOR PRECISION ENGAGEMENT:**
Rear Admiral Michael Manazir, USN—Director, Air Warfare (OPNAV N98)
- 1330 TOPICS IN WEAPONS RESEARCH & ENGINEERING:**
Dr. Spiro Lekoudis—Director, Weapons Systems, ASD(R&E)/Research Directorate, OSD
- 1400 JOINT ATTACK MUNITION SYSTEMS (JAMS) UPDATE:**
Colonel James Romero, USA—Project Manager, Joint Attack Munition Systems, Redstone Arsenal
- 1430 CONGRESSIONAL PERSPECTIVES—KEEPING OUR ASYMMETRIC EDGE:**
- **Representative Randy Forbes (VA-04) (Video Presentation)**—Chairman, U.S. House Committee on Armed Services Subcommittee on Seapower and Projection Forces
 - **Representative Rob Wittman (VA-01) (Video Presentation)**—Member, U.S. House Committee on Armed Services
- 1500 REFRESHMENT BREAK**
- 1515 MUNITIONS REQUIREMENTS ASSESSMENT TO ADDRESS WARFIGHTERS' NEEDS:**
Major Ryan McGuire, USAF—Warfighting Analysis Division, The Joint Staff (J-8)
- 1545 PROTOTYPING FOR AIR DOMINANCE FOR 2030+:**
Colonel John Gloystein, USAF—Acting Commander/Director, AFMC AFRL/RW, Eglin AFB
- 1630 SUSTAINING AMERICA'S PRECISION STRIKE ADVANTAGE—WEAPONS MIX RE-THINK:**
Mark Gunzinger—Senior Fellow, Center for Strategic and Budgetary Assessments
- 1715 USE OF DEFENSE CONSORTIA FOR RAPID TECHNOLOGY DEVELOPMENT:**
Chris Van Metre—President of SCRA
- 1800 EVENING RECEPTION**

WEDNESDAY, 28 OCTOBER 2015

- 0700 CHECK-IN / CONTINENTAL BREAKFAST**
- 0730 OFFENSIVE ANTI-SURFACE WARFARE (OASuW) MISSION:**
- **OASuW Portfolio:**
Captain Jaime Engdahl, USN—Program Manager, Precision Strike Weapons Program Office, PMA-201 LRASM Deployment Office
 - **LONG RANGE ANTI-SHIP MISSILE (LRASM):**
Captain Timothy Hill, USN—PMA-201 LRASM Deployment Office

WEDNESDAY, 28 OCTOBER 2015 (continued)

- 0815 ELECTRONIC WARFARE STRATEGY, OPERATIONAL SUPPORT & SECURITY:**
Jay Kistler—Director for Electronic Warfare & Countermeasures, ASD(R&E)
- 0845 TARGETING SUPPORT FOR FUTURE WARFARE ENGAGEMENT::**
Wayne Larsen—Director of Operations, 363rd ISR Group, Air Force Targeting Center, Air Combat Command, Langley AFB
- 0930 NETWORKING REFRESHMENT BREAK**
- 1000 PANEL—TECHNOLOGIES TO SUPPORT PRECISION ENGAGEMENT REQUIREMENTS:**
- **Moderator: James MacStravic**—DASD for Tactical Warfare Systems, OUSD(AT&L)
 - **Navy: Rear Admiral Mat Winter, USN**—Chief of Naval Research, DASN for Science & Technology
 - **Air Force: Major General Paul “PJ” Johnson, USAF**—Director, Operational Capability Requirements, HQ USAF
 - **Army: Joe Pelino**—Director of Technology, Enterprise & SI Center, ARDEC
 - **Marine Corps: Brigadier General Michael Groen, USMC**—Director of Marine Corps Intelligence, Intelligence Department, Headquarters USMC
 - **USSOCOM: Tony Davis**—S&T Director, United States Special Operations Command
 - **Q&A with Above Panelists**
- 1145 BREAKTHROUGH TECHNOLOGIES FOR AIR SUPERIORITY MISSION:**
- **Major General Paul “PJ” Johnson, USAF**—Director, Operational Capability Requirements, HQ USAF
- 1230 INFORMAL LUNCHEON BUFFET—Kossiakoff Center Dining Room**
- 1300 RICHARD H. JOHNSON TECHNICAL ACHIEVEMENT AWARD CEREMONY**
- **Presentation of Seventh Richard H. Johnson Award for Technical Excellence in the Field of Precision Strike to:**
Dr. Wade Dyer—“In Demand” Consultant (Former Principal Fellow with Raytheon & Texas Instruments)
Paul Manz—Chief Scientist, U.S. Army, PEO Ammunition, Pacatinny Arsenal
 - **Remarks by Award Recipients**
- 1330 DEVELOPMENT OF BREAKTHROUGH TECHNOLOGIES FOR NATIONAL SECURITY:**
- **Hypersonic Air-breathing Weapon Concept and Tactical Boost Glide System**
 - **Swarming and Autonomous Systems (Gremlin, CODE, HYDRA, and ALIAS)**
 - **Precision Fires (MadFires and Persistent Close Air Support)**
Dr. Brad Tousley—Director, DARPA/Tactical Technology Office
- 1430 REFRESHMENT BREAK**

WEDNESDAY, 28 OCTOBER 2015 (continued)

1445 TECHNOLOGIES NEEDED FOR FUTURE SURFACE WARFARE ENGAGEMENT:

- **Session Chair—Scene Setter Overview:**
Kerry Neace—Program Area Manager for Kinetic Engagement, JHU/APL
- **Autonomy in Swarming Vehicle Control:**
Treven Wall & Cammy Peterson—JHU/APL
- **Hypervelocity Projectile for Surface Attack:**
David Drewry—JHU/APL and **Adam Jones**—HVP PM, NSWC/Dahlgren
- **Passive Sensing for Weapon Guidance:**
Bill Emerson—BAE Systems
- **Weapon-Weapon Communication for Collaborative Engagement:**
Roger Sullivan—ONR
- **Enabling Concepts for OASuW Weapons:**
Dr. Ken Olson—JHU/APL
- **Technology Papers Session Q&A with Above Team**

1800 ADJOURN FOR THE DAY

THURSDAY, 29 OCTOBER 2015

0700 CHECK-IN / CONTINENTAL BREAKFAST

0730 INTEGRATED COUNTER-WMD ENGAGEMENT ENTERPRISE (ICEE) DEMONSTRATION:

Dr. Bob Hastie—Technical Director, Weapons & Capabilities Division, Counter-WMD Technologies Dept., Defense Threat Reduction Agency (DTRA)

0815 GROUND MOVING TARGET INDICATOR (GMTI)/MOTION INTELLIGENCE:

Mark Choiniere—Acting Director, InnoVision Directorate, National Geospatial-Intelligence Agency (NGA)

0845 CONVENTIONAL PROMPT GLOBAL STRIKE:

Dr. Karen St. Germain—Deputy Director for Remote Sensing & Prompt Strike, Office of DASD Space, Strategic & Intelligence Systems, OUSD(AT&L)

0915 STRATEGIC ISR:

Bong Gumahad—Deputy Director for ISR (Airborne & Space), Office of DASD Space, Strategic & Intelligence Systems, OUSD(AT&L)

0945 REFRESHMENT BREAK

1000 KEYNOTE—STRATEGIC CHALLENGES & ENDURING REQUIREMENTS OF DETERRENCE:

Lieutenant General Stephen Wilson, USAF—Deputy Commander, United States Strategic Command (USSTRATCOM)

1045 KEYNOTE—ARMY WARFIGHTING CHALLENGES WITH SPECIFIC EMPHASIS ON PRECISION STRIKE CAPABILITIES:

Lieutenant General H. R. McMaster, USA—Director, Army Capabilities Integration Center & Deputy CG, Futures, U.S. Army Training and Doctrine Command

THURSDAY, 29 OCTOBER 2015 (continued)

- 1130** **INFORMAL LUNCHEON BUFFET—Kossiakoff Center Dining Room**
- 1200** **LUNCHEON ADDRESS—THE GLOBAL CHALLENGE OF PREVENTING NUCLEAR WAR BY WINNING THE WARS THAT COUNT:**
Dr. Peter Huessy—President, Geostrategic Analysis
- 1245** **HIGH ENERGY LASER – JOINT TECHNOLOGY OFFICE OVERVIEW:**
Dr. Lawrence Grimes—Director, HEL-JTO
- 1330** **TECHNOLOGIES AHEAD—NATIONAL LABS:**
- **Session Chair—Scene Setter Overview:**
Jeff Braun—Senior Weapon Subsystems Engineer, Sandia National Laboratories
 - **Sandia National Laboratories:**
Dr. Gary Polansky—Senior Scientist, Integrated Military Systems Development Center
 - **Los Alamos National Laboratory:**
Andy Erickson—Deputy Principal Associate Director, Global Security Programs
 - **Lawrence Livermore National Laboratory:**
Dr. Mike Carter—Director, DoD Technologies Program, NIF & Photon Science
- 1530** **CLOSING REMARKS**
Marc Tang—Vice Chairman of the Board