



PRECISION STRIKE ASSOCIATION

PRESENTS THE 26TH ANNUAL

PRECISION STRIKE TECHNOLOGY SYMPOSIUM (PSTS-16)

Precision Strike Priorities to Meet New Great-Power Competition

OCTOBER 25-27, 2016

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



“History tells us there is the potential, that by changing the way we organize around the technologies that are available, we might be able to change the pace and scope of the fight on the battle space.”

**General Paul Selva, USAF
VCJCS**

**SYMPOSIUM WILL BE
CONDUCTED AT**

SECRET//NOFORN LEVEL

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Event #7PST

For more information about PSTS-16, please visit our website: <http://www.precisionstrike.org/Events/7PST/7PST.html>

Please join us for one of the best technology symposiums of its kind!



General Paul Selva, USAF



Admiral Scott Swift, USN



General
John R. Allen, USMC (Ret)



Lieutenant General
Jack Weinstein, USAF



Major General
Michael Fortney, USAF



Vice Admiral
Michael Gilday, USN



Dr. David Van Wie



Andrew Nuss



Dr. Peter Erbland



Dr. Peter Huessy

WHY ATTEND PSTS-16

The most profound challenges in the world today require the immediate creation of successful technological innovation and significant and lasting changes. The theme **Precision Strike Priorities to Meet New Great-Power Competition** allows the precision strike community the opportunity to pursue many of these challenges by showcasing the following focus areas:

- Geo-Political Landscape/Threat Environment/Precision Weapons Systems
- Enabling Technologies/Innovative Solutions/Technology Investment
- Strategic Challenges/Emerging Capabilities/Evolution of Nuclear Enterprise

Keynote and featured speakers from OSD, the Joint Staff, the Services, U.S. Pacific Fleet, DIA, AFGSC, AFSOC, PEOs, ONR, DARPA, DTRA, AFPEO Weapons, AFRL, Langley AFB, 8th AF, JHU/APL, National Labs, and Industry will address numerous riveting topics during this important and engaging three-day classified symposium including:

- Intelligence Assessment—Middle East & North Africa Challenges
- Targeting Support for Future Warfare Engagement
- Third Offset Framing & Modernizing Defense Innovation
- Navy's Next Generation Strike Capability & LRASM
- Overview of Hot Spots & Trends Around the African Continent
- Air Force Precision Weapons
- Precision Engagement in the Asia-Pacific AOR
- Development of Breakthrough Technologies for National Security
- Army Precision Weapons—Long-Range Precision Fires
- Naval Strategic S&T Investments
- Joint Concepts & Precision Engagement Initiatives
- Unique Challenges—Innovative Solutions—Maximum Impact
- U.S. Global Presence—Precision Strike Priorities
- Global Megatrends and Challenges to Precision Strike
- Insights into the Kill Chain & Lessons Learned from Iraq & Syria
- Special Tactics to Achieve Precision Strike Effects
- Technologies Needed for Future Strike Warfare Engagement
- Technologies Ahead—National Labs
- Strategic Challenges to Meet Great-Power Competition
- Autonomy-Enabled Systems to Support Counter-WMD Mission
- Russia's New Strategic Doctrine & Capabilities
- Standoff Munitions Applications Center (SMAC) Update
- Industry's Views on Closing the Great-Power Capability Gap
- Long-Range Strike in the 21st Century
- Strategic Challenges of Cyber Operations

Special Award Ceremony: 8th Richard H. Johnson Technical Achievement Award

- 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 **CONGRESSIONAL PERSPECTIVES ON GLOBAL STRATEGIC ISSUES INCLUDING USA PRESENCE:**
Dr. Peter Huessy—President, GeoStrategic Analysis
- 0830 **INTELLIGENCE ASSESSMENT—MIDDLE EAST & NORTH AFRICA CHALLENGES:**
Amir Asmar—DIO Mid-East and North Africa, Defense Intelligence Agency (DIA)
- 0910 **TARGETING SUPPORT FOR FUTURE WARFARE ENGAGEMENT:**
Lieutenant Colonel Jamil Syed, USAF—Deputy Director of Operations, 363rd ISR Group, Air Combat Command, Langley AFB
- 0950 **NETWORKING REFRESHMENT BREAK**
- 1015 **THIRD OFFSET FRAMING:**
Colonel Paul “PJ” Maykish, USAF—Senior Air Force Strategy Advisor for OUSD(Policy)
- 1045 **PRIORITIES FOR U.S. DEFENSE STRATEGY AND FORCE PLANNING:**
David Ochmanek—Senior Defense Analyst, The RAND Corporation
- 1115 **NAVY’S NEXT GENERATION STRIKE CAPABILITY:**
Rear Admiral Mark Darrah, USN—PEO for Unmanned Aviation and Strike Weapons
- 1200 **INFORMAL LUNCHEON BUFFET**—Kossiakoff Center Dining Room
- 1230 **LUNCHEON ADDRESS—OVERVIEW OF HOT SPOTS AND TRENDS AROUND THE AFRICAN CONTINENT:**
Steve Howell—DIO Sub-Saharan Africa, DIA
- 1315 **LONG RANGE ANTI-SHIP MISSILE (LRASM):**
Captain Jaime Engdahl, USN—PM, Precision Strike Weapons Program Office, PMA-201
- 1345 **AIR FORCE PRECISION WEAPONS:**
Major General Jon Norman, USAF—Director, Global Power Programs, Office of the Assistant Secretary of the Air Force for Acquisition, Headquarters, U.S. Air Force
- 1430 **REFRESHMENT BREAK**
- 1445 **KEYNOTE ADDRESS—PRECISION ENGAGEMENT IN THE ASIA-PACIFIC AOR:**
Admiral Scott H. Swift, USN—Commander, U.S. Pacific Fleet
- 1530 **DEVELOPMENT OF BREAKTHROUGH TECHNOLOGIES FOR NATIONAL SECURITY:**
Dr. Peter Erbland—Program Manager, Tactical Technology Office, DARPA
- 1615 **ARMY PRECISION WEAPONS—LONG-RANGE PRECISION FIRES:**
Speaker TBD
- 1700 **NAVAL STRATEGIC SCIENCE AND TECHNOLOGY INVESTMENTS:**
Rear Admiral Mat Winter, USN—Chief of Naval Research, DASN for Science & Technology
- 1730 **EVENING RECEPTION WITH HEAVY HORS D’OEUVRES**

For Agenda Questions Contact:
Ginny Sniegon
(703) 575-6653
vsniegon@ida.org



**Major General
Jon Norman, USAF**



**Rear Admiral
Mat Winter, USN**



**Rear Admiral
Mark Darrah, USN**



**Captain
Jaime Engdahl, USN**



**Colonel
PJ Maykish, USAF**



**Lieutenant Colonel
Jamil Syed, USAF**



Steve Howell



David Ochmanek

PSTS-16 PLANNING COMMITTEE

PSA Programs Chair: *Ginny Sniegon*

PSA Programs Vice-Chair:
CDR David “Jumbo” Baird, USN

PSTS-16 Tri-Chairs:
CAPT Larry Burt, USN (Ret) (Day 1)—Kerry Neace (Day 2)—Marc Tang (Day 3)

U.S. Military Chairs/Advisors

OSD: *CDR David “Jumbo” Baird, USN
Chuck Kelly*

Air Force: *Col Greg Payne, USAF
Col (S) Brian Farmer, USAF*

Navy: *CDR James “Sleestak” Reeve, USN
MAJ David “Metro” Fitzsimmons, USMC*

Army: *LTC Nathan Fischer, USA
LTC Ken Britt, USA (Ret)*

Marine Corps: *MAJ Ryan “Thriller” Schiller, USMC
The Joint Staff: Lt Col Jesse “Ammo” Friedel, USAF*

PSA Chairman: *Ken Masson*
Associate Director: *Angie De Kleine, CAE, CMM, CMP, CEM*

Register today!



**Brigadier General (S)
Sean Farrell, USAF**



Dr. William Conley



**Colonel
John Gloystein, USAF**



**Colonel
Halsey Burks, USAF**



Kerry Neace



**Lieutenant Colonel
Nathan Pierpoint, USAF**



**Captain
Michael Smith, USAF**

0700 **CHECK-IN / CONTINENTAL BREAKFAST**

0730 **JOINT CONCEPTS—PRECISION ENGAGEMENT INITIATIVES:**
Colonel Halsey Burks, USAF—Concepts Development Branch Chief, Joint Concepts Division, Future Joint Force Development Directorate, J-7, Joint Staff

0815 **UNIQUE CHALLENGES—INNOVATIVE SOLUTIONS—MAXIMUM IMPACT:**
Colonel John Gloystein, USAF—Director, Munitions Directorate, Air Force Research Lab, Eglin Research Site Commander

0900 **RESHAPING ELECTRONIC WARFARE—INNOVATIONS AND INITIATIVES:**
Dr. William Conley—Deputy Director for Electronic Warfare, OUSD(AT&L)

0945 **NETWORKING REFRESHMENT BREAK**

1000 **KEYNOTE ADDRESS—PRECISION STRIKE PRIORITIES:**
General Paul J. Selva, USAF—Vice Chairman of the Joint Chiefs of Staff

1045 **MODERNIZING DEFENSE INNOVATION FOR THE 21ST CENTURY:**
Andrew Nuss—SCO Program Manager, Strategic Capabilities Office, OSD

1130 **LUNCHEON**—Kossiakoff Center Dining Room

1200 **RICHARD H. JOHNSON TECHNICAL ACHIEVEMENT AWARD CEREMONY**

- **Presentation of Eighth Richard H. Johnson Award for Technical Excellence in the Field of Precision Strike to Frank Robbins**—Former Director, USAF Precision Strike Systems
- **Remarks by Frank Robbins**

1230 **GLOBAL MEGATRENDS AND CHALLENGES TO PRECISION STRIKE:**
General John R. Allen, USMC (Ret)—Co-director, Center for 21st Century Security & Intelligence, Brookings Institution

1315 **INSIGHTS INTO THE KILL CHAIN & LESSONS LEARNED FROM IRAQ & SYRIA:**
Brigadier General (S) Sean Farrell, USAF—Director for Strategic Plans, Programs & Requirements, Air Force Special Operations Command (AFSOC), Hurlburt Field

1400 **KINETIC STRIKE FOR SPECIAL TACTICS TO ACHIEVE PRECISION STRIKE EFFECTS:**
Captain Michael Smith, USAF—Chief of Weapons & Tactics/Force Mod, 720th Special Tactics Group, AFSOC

1425 **DIGITALLY AIDED CAS IN THE BATTLEFIELD:**
Master Sergeant Jared Pietras, USAF—Chief of Weapons & Tactics, 23rd Special Tactics Squadron, AFSOC

1445 **NETWORKING REFRESHMENT BREAK**

1500 **TECHNOLOGIES NEEDED FOR FUTURE STRIKE WARFARE ENGAGEMENT:**

- **Session Chair—Scene Setter Overview:**
Kerry Neace—Program Area Manager for Kinetic Engagement, JHU/APL
- **Topic 1 – Strike Technology Using Directed Energy & Off-Board Sensing:**
Lieutenant Colonel Nathan Pierpoint, USAF—Air Force Special Operations Air Warfare Center, Chief of Tactics and Innovation, AFSOC
- **Topic 2 – Tomahawk Modernization:**
Captain Mark Johnson, USN—Program Manager, PMA-280
Chris Sprinkle—Raytheon Company
- **Topic 3 – Next Generation Land Attack Weapons (NGLAW):**
Lieutenant Commander Doug Robb, USN—Requirements Officer, N96, OPNAV
- **Topic 4 – Electronic Attack in Support of A2/AD Fight:**
Louis Colangelo—Deputy Mission Area Executive for Precision Strike, JHU/APL
- **Topic 5 – Distributed Battle Management:**
Dr. Craig Lawrence—Program Manager, Distributed Battle Management, DARPA
- **Technology Papers Session Q&A with Above Team**

1800 **ADJOURN FOR THE DAY**

0700 CHECK-IN / CONTINENTAL BREAKFAST

0740 TECHNOLOGIES AHEAD—NATIONAL LABS:

- **Session Chair—Scene Setter Overview:**
Jeff Braun—Senior Weapon Subsystems Engineer, Sandia National Laboratories
- **Sandia National Laboratories: Advanced Technology for Hard Target Defeat**
Dr. Gary Polansky and Dr. Terry Stalker—Co-authors
- **Los Alamos Nat'l Lab: Emerging Los Alamos Technologies for Enhanced Precision Strike**
Andy Erickson—Deputy Principal Associate Director, Global Security Programs
- **Lawrence Livermore Nat'l Lab: Technologies Ahead—LLNL**
Matt Weingart—Weapons Programs Manager

0910 NETWORKING REFRESHMENT BREAK

0930 HYPERSONIC WEAPONS

Dr. David Van Wie—Precision Strike Mission Area Executive, JHU/APL

1000 KEYNOTE ADDRESS—STRATEGIC CHALLENGES TO MEET GREAT-POWER COMPETITION:

Lieutenant General Jack Weinstein, USAF—Deputy Chief of Staff for Strategic Deterrence & Nuclear Integration (A10), HQ USAF

1045 AUTONOMY-ENABLED SYSTEMS TO SUPPORT COUNTER-WMD MISSION:

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

1130 INFORMAL LUNCHEON BUFFET—Kossiakoff Center Dining Room

1200 LUNCHEON ADDRESS—RUSSIA'S NEW STRATEGIC DOCTRINE & CAPABILITIES:

Dr. Stephen Blank—Senior Fellow, American Foreign Policy Council

1245 STANDOFF MUNITIONS APPLICATIONS CENTER (SMAC) UPDATE:

Colonel George Holland, USAF—Deputy Commander, 608 Air Operations Center, 8th Air Force, Barksdale AFB

1315 PANEL—INDUSTRY'S VIEWS ON CLOSING THE GREAT-POWER CAPABILITY GAP:

- Moderator: Ken Masson**—Orbital ATK – Washington Operations
- **Lockheed Martin**—**Frank St. John**—Vice President, Orlando Operations & Tactical Missiles/Combat Maneuver Systems Missiles & Fire Control
 - **Northrop Grumman Corporation**—**Brigadier General Richard "Scott" Stapp, USAF (Ret)**—Vice President, Applied Research and Technology Development
 - **The Boeing Company**—**David Bujold**—Director Fixed Wing Programs, Boeing Phantom Works
 - **Raytheon Missile Systems**—**Major General Dave "Limo" Scott, USAF (Ret)**—Business Development Executive, Advanced Missile Systems
 - **Orbital ATK, Inc.**—**Bart Olson**—Defense Systems Group BD Vice President
 - **General Atomics Electromagnetic Systems**—**Nick Bucci**—Vice President, Missile Defense & Space Systems

1430 REFRESHMENT BREAK

1445 LONG-RANGE STRIKE IN THE 21ST CENTURY:

Major General Michael Fortney, USAF—Vice Commander, Air Force Global Strike Command, Barksdale Air Force Base

1530 STRATEGIC CHALLENGES OF CYBER OPERATIONS:

Vice Admiral Michael Gilday, USN—Commander, U.S. Fleet Cyber Command/Commander, U.S. 10th Fleet

1615 CLOSING REMARKS

Marc Tang—Vice Chairman of the Board



Jeff Braun



Dr. Gary Polansky



Andy Erickson



Matt Weingart

Colonel
George Holland, USAF

Dr. Bob Hastie



Dr. Stephen Blank

GENERAL INFORMATION

~ In lieu of speaker gifts, a donation has been made to the Fisher House Foundation. ~

SECURITY REQUIREMENTS

SECURITY REQUIREMENTS PSTS-16 WILL BE CONDUCTED AT THE **SECRET//NOFORN** CLASSIFICATION

- All attendees must be U.S. Citizens holding a Secret or higher clearance.
- Visit requests must be submitted electronically via **JPAS to SMO Code 888984, by Tuesday, October 11, 2016.**
- Enter POC: Angie De Kleine CAE, CMM, CMP, CEM or PSTS-16.
- If you do not have access to JPAS, please download the security form posted on the 7PST meeting page: <http://www.precisionstrike.org/events/7PST/7PST.html>. Security Form (PDF).
- Completed forms must then be faxed to JHU/APL—ATTN: Visitor Control; fax# 443-778-6400

QUESTIONS REGARDING SECURITY ONLY:

Telephone: (240) 228-5661
JHU/APL—ATTN: Visitor Control
11100 Johns Hopkins Rd
Laurel, MD 20723-6099

ALL ATTENDEES MUST BE U.S. CITIZENS HOLDING A SECRET OR HIGHER CLEARANCE.

***** Note: ***** If you hold a Department of Energy (DOE) Q, or L clearance, JHU/APL now requires that the visit request be submitted on the DOE 5631.20 form. *******

DATES TO REMEMBER

- **Homewood Suites by Hilton Columbia/ Laurel Cut-off: Friday, September 23, 2016.**
- Security Clearance Visit requests must be submitted electronically, by **Tuesday, October 11, 2016.**
- Attendees with special needs (e.g. food allergies, should send an e-mail to PSA Headquarters ASC at webasc@ndia.org; or Angie De Kleine, CAE, CMM, CMP, CEM at adekleine@ndia.org; by **Friday, October 7, 2016.**
- Cancellation or refund request deadline: on or before **Friday, October 7th, 2016.**

REGISTRATION

Register for this conference online at <http://www.precisionstrike.org>. You will be directed to the NDIA registration web page. You will receive a confirmation via email after you use the CONFIRM button on the web page. When registering online, please review and change any necessary information then “submit” and “confirm” your entry. PLEASE make sure you check your account information for accuracy (i. e: spelling of name, address, company name, email address, phone number etc.).

Fax: Complete registration form with payment information and fax to 703-522-1885.

Mail: Complete registration form with payment to: PSA - Angie De Kleine, CAE, CMM, CMP, CEM
Event #7PST, 2111 Wilson Blvd., Suite 400, Arlington, VA 22201-3601

Acceptable forms of payment include: Checks (with mailed registrations); Credit cards: Visa, Master Card, American Express, Diners Club but not Discover Card.

Payment must be made at time of registration. Please register onsite after the deadline date. Non-member fee includes individual membership in PSA for a one-year period.

DISABILITIES

PSA supports the Americans with Disabilities Act of 1990.

Attendees with special needs (e.g. food allergies) should send an e-mail to PSA Headquarters ASC at webasc@ndia.org; or Angie De Kleine, CAE, CMM, CMP, CEM, at adekleine@ndia.org; by **Friday, October 7, 2016.** Please refer to meeting #7PST (PSA – PSTS-16).

ATTIRE

Appropriate dress for this Symposium is business attire for civilian and military Class A uniform for military presenters. Military attendees may wear the Uniform of the Day for their respective organizations.

PROCEEDINGS

The unclassified proceedings for PSTS-16 will be available for all attendees online 2-3 weeks after the event. The URL for the proceedings will be included in the conference materials to be distributed at the symposium for those who attend. Please note not all presentations are included in the proceedings as they will be given at a classified level. The decision to include an unclassified version of their presentation is left up to the presenter.

FINAL AGENDA AND ATTENDANCE ROSTER

A final (revised) agenda and attendance roster will be distributed at the meeting. In order to appear on the roster, your completed registration and payment must be received by COB **Friday, October 7, 2016.** An updated roster will not be printed after the conference.

CANCELLATIONS/REFUNDS/SUBSTITUTIONS

All cancellations and refund requests must be received in writing to Precision Strike Association, 2111 Wilson Blvd, Suite 400, Arlington, VA 22201-3061, fax to: 703-522-1885, or by e-mail: info@precisionstrike.org; webasc@ndia.org; **no later than 5:00 PM EST Friday, October 7, 2016.** NO refunds will be issued for cancellations received after this date. A \$75 administrative fee will be applied to ALL cancellations received before **Friday, October 7, 2016.** Substitutions are welcome prior to the day of the event. Please make sure you email your request if it is close to the event date. Refunds will not be issued for no-shows. If an attendee has not submitted payment for his/her registration, and does not attend the conference or cancel by the deadline, he/she will be invoiced for the balance due. We do not issue refunds for the sole purpose of switching forms of payment; please be sure you are registering with the correct form of payment (a fee will be applied to those wishing to switch forms of payment). This cancellation/refund policy applies to all attendees regardless of their method of payment, registration, and/or reasons for the cancellation.

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- 2nd that paper work is then turned over to the Accounting department.
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QUESTIONS? Contact Angie De Kleine, CAE, CMM, CMP, CEM adekleine@ndia.org or call 703-247-2599

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(703) 522-1820 ▶ (703) 522-4656 FAX ▶ WWW.PRECISIONSTRIKE.ORG



PRECISION STRIKE TECHNOLOGY SYMPOSIUM (PSTS-16)

▶ **KOSSIAKOFF CONFERENCE CENTER, JOHNS HOPKINS UNIVERSITY APL**
▶ **LAUREL, MD ▶ OCTOBER 25-27, 2016**

3 WAYS TO SIGN UP:

1. Online with a credit card at www.precisionstrike.org
2. By fax with a credit card - Fax: (703) 522-4656
3. By mail with a check or credit card

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SYMPOSIUM REGISTRATION FEES

Regular (COB 10/7) Late (on/after 10/8)

U.S. Government (Civilian and Active Duty) ¹	\$300	\$300
Industry NDIA Member and affiliates (AFEI, NTSA, PSA, WID)	\$920	\$995
Industry non-NDIA member ²	\$1,020	\$1,095
Small Business/Academia	\$350	\$425
PSA Corporate Member Rate:	\$920	\$995
Name of Referred Attendee/Co-Worker: _____		
Registered PSA Corporate Members receive a 10% discount for Co-worker referral. In addition, PSA Industry Members under 40 also receive a 10% discount.	\$830	\$905
Referred by: _____		

¹ Includes a free three-year PSA-NDIA membership and subscription to National Defense magazine for military and government employees.

² No, do not sign me up for the free government membership.

² Registration fees for non-NDIA (or affiliate) members include a one-year non-refundable PSA membership, which includes a one-year complimentary subscription to National Defense magazine.

BY COMPLETING THE FOLLOWING, YOU HELP US UNDERSTAND WHO IS ATTENDING OUR EVENTS.

PRIMARY OCCUPATIONAL CLASSIFICATION. Check ONE.

- Defense Business/Industry
- R&D/Laboratories
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- Navy
- Air Force
- Marine Corps
- Coast Guard
- DOD/MOD Civilian
- Government Civilian (Non-DOD/MOD)
- Trade/Professional Assn.
- Educator/Academia
- Professional Services
- Non-Defense Business
- Other _____

CURRENT JOB/TITLE/POSITION.

Check ONE.

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- Executive
- Manager
- Engineer/Scientist
- Professor/Instructor/Librarian
- Ambassador/Attaché
- Legislator/Legislative Aide
- General/Admiral
- Colonel/Navy Captain
- Lieutenant Colonel/Commander/Major/Lieutenant Commander
- Captain/Lieutenant/Ensign
- Enlisted Military
- Other _____

Year of birth _____ (optional)

No refunds for cancellations received after 10/07/16. Substitutions welcome in lieu of cancellations!

QUESTIONS, CONTACT:

ANGIE DE KLEINE, CAE, CMM, CMP, CEM (ASSOCIATE DIRECTOR)

PHONE: (703) 247-2599

E-MAIL: ADEKLEINE@NDIA.ORG

MAIL REGISTRATION TO:

NDIA - EVENT #7PST
2111 WILSON BOULEVARD
SUITE 400
ARLINGTON, VA 22201

FAX TO: (703) 522-4656

PAYMENT OPTIONS

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▶ VISA ▶ MasterCard ▶ American Express ▶ Diners Club ▶ Cash

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**APL is located on Johns Hopkins Road, approximately 1/2 mile west of U.S. Route 29.
There are several visitor entrances.**

- Montpelier Rd.: Montpelier Research Park (APL offices), 0.4 miles from Rt. 29.
- Pond Rd.: Credit Union, Kossiakoff Center, and East Campus, 0.6 miles from Rt. 29.
- APL Drive: Main Laboratory Entrance, 0.8 miles from Rt. 29.
- Building 26 (Warfare Analysis Laboratory): Right turn onto Sanner Rd., second right entrance, West Campus
- Building 23 (Space Integration Test Facility): Right turn onto Sanner Rd., 0.8 miles from Johns Hopkins Road, right turn to building 23, North Campus

From the Baltimore Area:

1. Take I-95 South toward Washington DC
2. From the Baltimore Beltway (I-695) intersection go 13 miles and take MD Rt. 32 West (toward Columbia)
3. Go 2.5 miles and take U.S. Rt. 29 South (toward Washington DC)
4. Go 1.5 miles and take exit 15 for Johns Hopkins Rd.
5. Exit onto Johns Hopkins Rd.

From Washington DC and the Capital Beltway (I-495):

1. Take I-95 North toward Baltimore
2. Go 8 miles and take MD Rt. 216 West (toward Scaggsville)
3. Go 1.2 miles, turn right onto Leishear Rd.
4. Go 0.8 miles, turn left onto Gorman Rd.
5. Go 0.7 miles, cross traffic circle and bridge over U.S. Rt. 29
6. Road name changes to Johns Hopkins Road
7. APL is on the right about a 1/2 mile past Rt. 29

Alternate Washington DC/Capital Beltway Route:

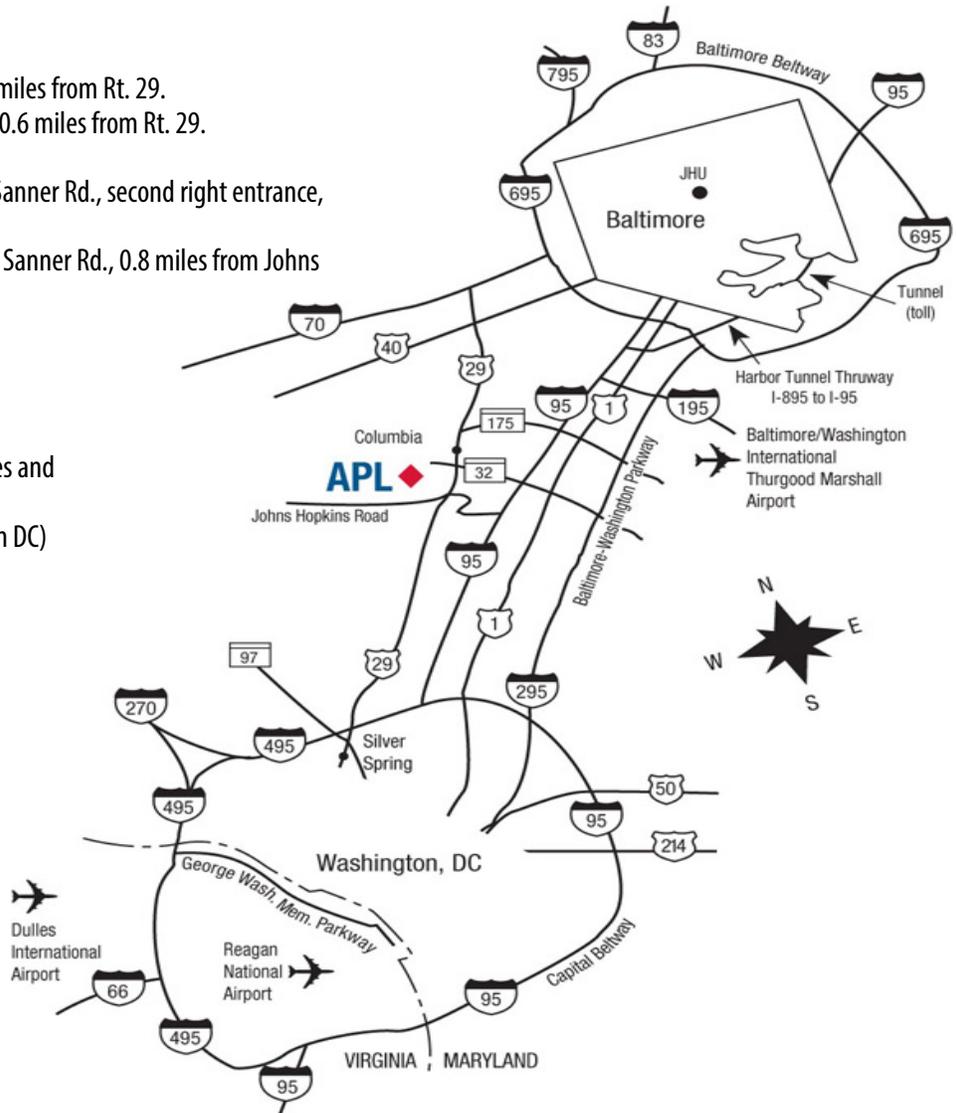
1. From the Capital Beltway (I-495), take I-95 North toward Baltimore
2. Go 10 miles and take MD Rt. 32 West (toward Columbia)
3. Go 2.5 miles and take U.S. Rt. 29 South (toward Washington DC)
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Alternate Washington DC/Capital Beltway Route:

1. From the Capital Beltway (I-495), take U.S. Rt. 29 North (Colesville Rd.)
2. Go 10 miles and follow the signs to exit 15 for Johns Hopkins Rd.
3. Exit onto Johns Hopkins Rd.

From Baltimore/Washington International Thurgood Marshall Airport:

1. Take I-195 West out of the terminal
2. Go 4.5 miles and take exit 4 to I-95 South toward Washington DC
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4. Go 2.5 miles and take U.S. Rt. 29 South (toward Washington DC)
5. Go 1.5 miles and take exit 15 for Johns Hopkins Rd.
6. Exit onto Johns Hopkins Rd.



From Ronald Reagan Washington National Airport:

1. Take the George Washington Memorial Pkwy. North
2. Go 16 miles and take the Capital Beltway (I-495) East or North toward Baltimore
3. Go 15 miles and take I-95 North toward Baltimore
4. Go 10 miles and take MD Rt. 32 West (toward Columbia)
5. Go 2.5 miles and take U.S. Rt. 29 South (toward Washington DC)
6. Go 1.5 miles and take exit 15 for Johns Hopkins Rd.
7. Exit onto Johns Hopkins Rd.

From Washington Dulles International Airport:

1. Take the Dulles Airport Access Rd. out of the airport
2. Go 12 miles to exit 18 for the Capital Beltway (I-495) East or North toward Baltimore
3. Go 18 miles and take I-95 North toward Baltimore
4. Go 10 miles and take MD Rt. 32 West (toward Columbia)
5. Go 2.5 miles and take U.S. Rt. 29 South (toward Washington DC)
6. Go 1.5 miles and take exit 15 for Johns Hopkins Rd.
7. Exit onto Johns Hopkins Rd.



LODGING

PSA has reserved a block of rooms at the Homewood Suites by Hilton Columbia/Laurel hotel for this symposium.

Homewood Suites by Hilton Columbia/Laurel

7531 Montpelier Road
Laurel, Maryland 20723
TEL: +1-240-360-2725
FAX: +1-240-786-7250

Group Room Rate*:

- Industry: \$113.00 single
- Government per diem: \$106.00** single

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WHEN MAKING YOUR RESERVATION, INDICATE THE ROOM RESERVATION IS FOR THE **PSA - 2016 PRECISION STRIKE TECHNOLOGY SYMPOSIUM.**

Please click Hilton website to make your hotel room reservation:

<http://homewoodsuites3.hilton.com/en/hotels/maryland/homewood-suites-by-hilton-columbia-laurel-BALCMHW/index.html>

Please call to make your reservations early. All rooms are on a first come first serve basis. If calling, please refer to: "PSA Symposium Event"

Reservations must be made Friday, September 23, 2016.

After that date, reservations will be accepted on a space available basis.

HOTEL GUEST ROOM RESERVATION GUARANTEE (DEPOSIT) & CANCELLATION (DEPOSIT REFUND) POLICY

Individuals are responsible for guaranteeing their (his/her) own hotel reservations. In order to guarantee a reservation for arrival, you must provide a major credit card.

Hotel Guest Parking: Complimentary parking is available.

* plus applicable taxes (sleeping Room Taxes: You agree to pay any and all applicable federal, state, municipal or other taxes, fees, or assessments imposed on or applicable to your Event. In the State of MD, currently the sales tax rate is 6% and the hotel occupancy tax rate is 7%.

**"The government per diem rate is only available to active duty military and civilian government employees; U.S. government issued active duty ID cards and travel orders are required upon check-in. Failure to present these credentials will result in being charged the prevailing or NDIA industry rate of \$113.00, if available, or current prevailing rate."

Hot Buffet Breakfast included with contracted rate.

PSA will provide the benefits as indicated below under for the respective sponsorship opportunity indicated below:

CONTINENTAL BREAKFAST: (2: Wed., or Thurs.) **\$1,750**
 Tuesday - Mercury Systems

- Benefits:**
- (1) Complimentary symposium registration*
 - Placement of your company's logo in the agenda handouts & proceedings
 - Company description (200 words) in onsite agenda
 - Signage outside the particular event sponsored
 - Sponsor ribbon on badges

LUNCH: (1: Thurs.) **\$2,000**
 Tuesday - Boeing and Wednesday - Ellwood Group, Inc.

- Benefits:**
- (1) Complimentary symposium registration*
 - Company logo and link to your company on event web site
 - Placement of your company's logo in the agenda handouts & proceedings
 - Company description (300 words) in onsite agenda
 - Signage outside the particular event sponsored
 - Sponsor ribbon on badges

BREAK: (4: Tues. a.m. or p.m., Wed. p.m., or Thurs. a.m.) **\$1,500**
 Wednesday a.m.- Boeing

- Benefits:**
- (1) Complimentary symposium registration
 - Placement of your company's logo in the agenda handouts & proceedings
 - Company description (200 words) in onsite agenda
 - Signage outside the particular event sponsored
 - Sponsor ribbon on badges

EVENING RECEPTION: (1) **\$500**
SMALL BUSINESS INVESTMENT:

- Benefits:**
- Company logo and link to your company on event website
 - Placement of your company's logo in the agenda handouts & proceedings
 - Full page ad in onsite agenda/meeting packet
 - Cash Bar
 - Sponsor ribbons on badges

PSA SPONSORSHIPS SPECIFIC GUIDELINES

- 1.) The undersigned ("Sponsor"), by duly authorized representative, enters into this agreement with PSA/NDIA, to purchase a sponsorship at the above-listed conference in exchange for the sponsorship listed above. PSA/NDIA will promote the Sponsor at the conference in accordance with the sponsorship benefits outlined in Addendum A. PSA/NDIA, at the signing of this agreement, will project the quantity and quality of items necessary for the sponsored event, and said items will be provided by PSA/NDIA based upon said projections.
- 2.) In order to produce signage and promote your company in printed materials, Company must provide:
 - a.) Logo in .EPS format to adekleine@NDIA.org with this signed form
 - b.) Name of One individual for the complimentary symposium registration* to adekleine@ndia.org by Tuesday, October 11, 2016.
 - c.) 300 word company description to adekleine@NDIA.org by Tuesday, October 11, 2016.
- 3.) PSA/NDIA reserves the right to cancel the sponsored item or event. In the event of such cancellation, Sponsor will be notified in writing and shall receive a full refund. Parties agree that in the event of such cancellation, the Sponsor's sole remedy against PSA/NDIA shall be the refund of monies paid by Sponsor to PSA/NDIA pursuant to this agreement.
- 4.) All returning Sponsors (A returning Sponsor is defined as a company that sponsored the same event last year, but not necessarily the same item) will receive an opportunity of no more than 30 days after the event stages to renew this sponsorship agreement for the following year. This period gives all returning Sponsors the first refusal right for their sponsorship for the 30 days. After this period ends, the first right of refusal is terminated and the sponsorship becomes available on a first-come, first-served basis. Renewals may be subject to change in price and sponsorship benefits at the discretion of PSA/NDIA.
- 5.) Force Majeure Clause: PSA/NDIA shall not be responsible for a failure of performance of this agreement due to Act of God, war, disaster, strikes, civil disorder, government acts and or decisions, or other emergencies making it inadvisable, illegal or impossible to hold the event or deliver sponsorship benefits.
- 6.) Sponsor agrees to abide by official exposition rules and regulations (copies provided by PSA/NDIA upon written request).
- 7.) A copy of this contract and any signatures herein shall be valid as an original.

*does not include any additional spouse, guests or other additional symposium registrations

Please use the form below to reserve space and mail or fax payment to: PSA, 2111 Wilson Blvd. Suite 400, Arlington, VA 22201-3061/ fax with credit card information to 703-522-4656.

Questions? Please contact Angie De Kleine at the information below. *Event:7PST*



*Sponsorship Opportunity: _____

*Subject to change-if opportunity not available

Contact Name: _____ Company: _____

Address: _____

City: _____ State: _____ Zip: _____

Phone: _____ Fax: _____

Email: _____

Payment: Check (payable to PSA - #7PST) TYPE of CARD: AMEX Visa Master Card Diners Club

Card # _____ Expiration Date: ____/____/____

Signature: _____ Total Amount Due: \$ _____

The Johns Hopkins University - Applied Physics Laboratory / The Kossiakoff Center

* 11100 Johns Hopkins Road | Laurel, MD 20723

WHY EXHIBIT AT PSTS? Don't miss the opportunity to showcase your technology, innovations, and products. Providing the best equipment in the timeliest manner to our warfighters is what this symposium is all about. You will have the opportunity to put your product in the hands of the attendees at the PSTS-16 during this exhibition!

EXHIBITION SPACE: Display space available on a first-come, first-serve basis. Please refer to the exhibit hall diagram for exact display locations. Each 8'x8' display will consist of a 6' table with two chairs. (Please note: ceiling height in the display area is 11.5' from the floor). Exhibitors will also receive recognition in the onsite symposium brochure, attendee's list and slide presentation shown at each break.

- 1.) In order to produce the on-site symposium brochure, Company must provide:
 - a.) Logo in .EPS format to adekleine@NDIA.org with this signed form
 - b.) Name of the one (1) individual for the complimentary symposium registration* to adekleine@ndia.org by **Tuesday, October 4, 2016.**
 - c.) 300 word company profile description to adekleine@NDIA.org by **Tuesday, October 4, 2016.**

2.) PSA/NDIA reserves the right to cancel the symposium or event. In the event of such cancellation, exhibiting company will be notified in writing and shall receive a full refund. Parties agree that in the event of such cancellation, the exhibiting company's sole remedy against PSA/NDIA shall be the refund of monies paid the exhibitor to PSA/NDIA pursuant to this agreement.

3.) Force Majeure Clause: PSA/NDIA shall not be responsible for a failure of performance of this agreement due to Act of God, war, disaster, strikes, civil disorder, government acts and or decisions, or other emergencies making it inadvisable, illegal or impossible to hold the event or deliver exhibitor benefits.

4.) Exhibitor agrees to abide by official exposition rules and regulations (copies provided by PSA/NDIA upon written request).

EXHIBITION FEES:

PSA Members: \$1,875 (Includes one symposium registration)

Non-Members: \$2,250 (Includes one symposium registration)

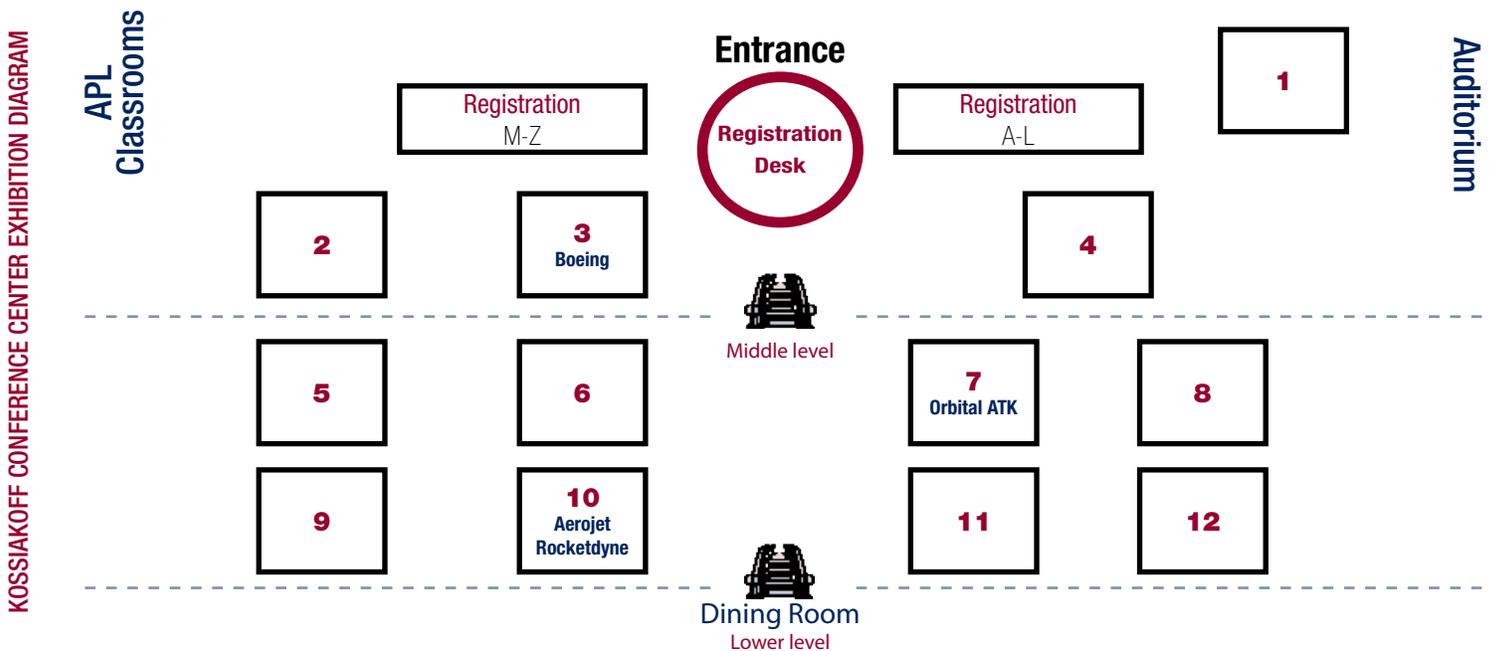
PSA Small Business Members

(1 Complimentary 8'x8' space with one (1) paid symposium registration)

Government & Military

(1 Complimentary 8'x8' space with one (1) paid symposium registration)

Note to exhibitors: If you plan to attend the symposium, please complete your security request



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Contact Name: _____ Company: _____

Please reserve Booth Number _____ Alternate Choice _____

Address: _____

City: _____ State: _____ Zip: _____

Phone: _____ Fax: _____

Email: _____

Payment: Check (payable to PSA - #7PST) TYPE of CARD: AMEX Visa Master Card Diners Club

Card # _____ Expiration Date: ____/____/____

Signature: _____ Total Amount Due: \$ _____



PRECISION STRIKE ASSOCIATION
2111 WILSON BOULEVARD, SUITE 400
ARLINGTON, VA 22201-3061
(703) 522-1820
(703) 522-1885 FAX
WWW.NDIA.ORG

PRECISION STRIKE TECHNOLOGY SYMPOSIUM (PSTS-16)

TO REGISTER, VISIT:
WWW.PRECISIONSTRIKE.ORG



RICHARD H. JOHNSON TECHNICAL ACHIEVEMENT AWARD

The Precision Strike Association is proud to honor the eighth annual **Richard H. Johnson Technical Achievement Award** (the Johnson Trophy) at the Precision Strike Technology Symposium. This award is named after the first recipient, and will be presented to recognize an individual from public or private sector for outstanding personal technical achievements resulting in significant contribution to precision strike systems.

Dick Johnson, was an exemplar of such achievements, having personally led the design or redesign of more precision strike airframes than any contemporary. In a number of conflicts over the past two decades, the majority of weapon airframes employed were Johnson's designs. His designs, or imitations of them, appear in nearly every nation's military where precision strike systems are employed.

More information about this award and Richard Johnson can be found by visiting our website: www.precisionstrike.org

