

NDIA

2017

Pacific Operational Science & Technology Conference

Partnering in Science and Technology to Ensure Peace and Stability in the Indo-Asia-Pacific



March 6-10 2017

Hilton Hawaiian Village, Honolulu, HI

WELCOME TO THE 2017 PACIFIC OPERATIONAL SCIENCE AND TECHNOLOGY CONFERENCE & EXPO

**“Partnering in Science and Technology
to Ensure Peace and Stability in the Indo-Asia-Pacific”**

Aloha E Komo Mai! (Hello and Welcome)

NDIA and US Pacific Command’s Science and Technology Office welcome you to the 2017 Pacific Operational Science and Technology (POST) Conference and Exhibition. We are once again bringing the US and the Asia –Pacific area’s foremost experts in science, technology and security together to address security and safety in the Asia-Pacific. For the past 17 years, this conference has proven to be a great venue to understand operational issues and challenges in the region, and for technology providers to recommend solutions to these challenges. This year’s theme, “Partnering in Science and Technology to Ensure Peace and Stability in the Indo-Asia-Pacific,” highlights our focus on the importance of international partnerships. We look forward to the collaborative opportunities between participants that the POST Conference will afford this year.

I am hopeful that our collective experience during this week will uncover new and improved ways in which our organizations can cooperate with mutual benefit. Amidst the declining budget pressures we all face, continued focus and emphasis on S&T efforts is the key to competitive military advantage. Collaboration and teaming on efforts between organizations and countries is increasing in importance for mutual success. Your participation in this event is an important contribution to this goal. I look forward to seeing you there.

Mahalo! (Thank you)

Sincerely,



Michael C. Jones
Science and Technology Advisor
US Pacific Command

MONDAY, MARCH 6

- 0700-1600 **Conference Registration** – Coral Lounge
- 0800-1700 **S&T Portfolio Review (By Invitation Only)** – Nautilus Suite
Facilitator: Dr. Greg Power, USPACOM EC&P/JCTD Liaison

TUESDAY, MARCH 7

- 0700 **Conference Registration and Breakfast** – Coral Lounge
- 0800 **General Session** – Coral Ballroom 4 - 5
- 0800 **Admin Remarks – Welcome**
Mr. Mike Jones, Science and Technology Advisor, USPACOM
As the Science and Technology Advisor of US Pacific Command, Mr. Jones advocates for S&T solutions, informs S&T communities on USPACOM requirements, advises the Commander on S&T advances to avoid technological surprise, and leverages S&T for international engagement.
- Gen (Ret) Craig R. McKinley, President and CEO, National Defense Industrial Association
For nearly 100 years, NDIA has provided a platform through which leaders in government, industry and academia can collaborate and provide solutions to advance the national security and defense needs of the nation.
- 0815 **Opening Remarks**
The world's largest fleet command, the U.S. Pacific Fleet encompasses 100 million square miles, nearly half the Earth's surface, from Antarctica to the Arctic circle and from the West Coast of the United States into the Indian Ocean. Admiral Swift will provide opening remarks to guide discussions throughout the week.
- Admiral Scott Swift, Commander, COMPACFLT
- 0845 **APCSS Scene Setter Panel**
Daniel K. Inouye Asia-Pacific Center for Security Studies mission is to build capacities and communities of interest by educating, connecting, and empowering security practitioners to advance Asia-Pacific security. This panel will review regional and environmental influences to the Pacific region.
- LTC Jennifer Harlan, APCSS intro and Polling Results
Mr. David Shanahan, Asia Pacific Center for Security Studies
Dr. Scott Hauger, Asia Pacific Center for Security Studies
Dr. Bill Wieninger, Asia Pacific Center for Security Studies
- 0945 **Break** – Coral Lounge
- 1015 **Applying Technology to Combat Non Traditional Security Threats** – Coral Ballroom 4 - 5
The U.S. Government is cultivating an understanding of the all-hazards approach to emergency preparedness and response. Currently, the multitude of threats facing the U.S. has led to the innumerable preparedness and response procedures. Panelists will discuss such hazards, opportunities and tools for whole of government collaboration, and S&T opportunities to improve preparedness and response.
- Facilitator: Ms. Melissa Burns, All Hazards, J9, HQ United States Pacific Command
Mr. Jared Batzel, PACOM Liaison, Pacific Disaster Center
Mr. Gerald R. Scott, Deputy Director Field Experimentation, Navy Postgraduate School

Agenda

COL Brent Parker, Director, Theater Joint Forced Land Component Command (TJFLCC), USARPAC
Mr. Sean Kelly, Planner, A5, HQ United States Pacific Air Force
Mr. Peter Colvin, Knowledge Manager/VRAHE Project Lead, J9, HQ United States Pacific Command

1145 **Lunch with Keynote Speaker – Coral Ballroom 3**

The East-West Center promotes better relations among the people and nations of the Pacific and Asia through cooperative study, research, and dialogue. Established by the U.S. Congress in 1960, the Center serves as a resource for information and analysis on critical issues of common concern, bringing people together to exchange views, build expertise, and develop policy options. The Center is an independent, public, nonprofit organization with funding from the U.S. government, and additional support provided by private donors in the region.

Dr. Richard Vuylsteke, President, East-West Center

1300 **Control System Cybersecurity Panel – Coral Ballroom 4 - 5**

Control system cybersecurity is the prevention of interference with the proper operation of industrial automation and control systems. These control systems manage essential services including electricity, petroleum production, water, transportation, manufacturing, and communications. They rely on computers, networks, operating systems, applications, and programmable controllers, each of which could contain security vulnerabilities. This panel will highlight current trends in control system cybersecurity needs and effective security trends.

Facilitator: Mr. Ross Roley, Energy Innovation Office, USPACOM
Mr. Mark Hadley, Pacific Northwest National Lab
Mr. Trevor Jones, Senior Cyber Analyst for Mission Assurance, USPACOM J6
Mr. Bryan Tepper, Information Assurance Manager, Hawaiian Electric Company

1415 **Break – Coral Lounge**

1445 **COCOM Sci-Ads Panel – Coral Ballroom 4 - 5**

Combatant Commands provide effective command and control of all U.S. military forces organized either on a geographical basis or on a functional basis. This panel is composed of senior science and technology advisors across these commands, assembled to speak on the role of S&T and collaboration with industry, academia, and partner nations.

Facilitator: Mr. Elmer Roman, Director, Joint Concepts Technology Demonstrations, OSD
Mr. Ricardo Arias, USAFRICOM
Mr. Marty Drake, USCENTCOM
Mr. Michael T. McGuinness, USEUCOM
Mr. Mike Jones, USPACOM
Col Paula Hamilton, USAF, USNORTHCOM
Dr. Andrew Higier, USSOUTHCOM
Mr. Dan Bernard, USSOCOM
Mr. Martin "Marty" Ledington, USTRANSCOM
LTC Scott Key, Chief, Technology and Experimentation Branch, USSTRATCOM

1600 **Adjourn**

1600-1730 **Networking Event in Exhibits Area – Coral Lounge**

WEDNESDAY, MARCH 8

- 0700 **Conference Registration and Breakfast** – Coral Lounge
- 0800 **General Session** – Coral Ballroom 4 - 5
- 0800 **Admin Remarks**
Mr. Mike Jones, Science and Technology Advisor, USPACOM
- 0815 **ONR S&T International Engagement**
The Office of Naval Research (ONR) is an organization within the U.S. Department of the Navy that coordinates, executes, and promotes the science and technology programs of the U.S. Navy and Marine Corps through schools, universities, government laboratories, nonprofit organizations, and for-profit organizations. ONR carries out its mission by funding (through grants and contracts) world-class scientists, technologists, and engineers who perform basic research, technology development, and advanced technology demonstrations. More than 50 researchers have won a Nobel Prize for their ONR-funded work.

Dr. Walter Jones, Executive Director, ONR
- 0845 **Partner Perspectives Keynote Seminar**
- 0845-0900 **Introductory Remarks**
The Pacific Ocean encompasses one-third of the Earth's surface, having an area of 165.2 million square kilometers. Over 40 nations and over 20 territories share in the freedom of navigation and open access to Asia's maritime commons. During this session, senior S&T leaders from partner nations will deliver keynote remarks on their perspectives on the role of S&T to ensure peace and stability in the Indo-Asia-Pacific region.

Mr. Matthew Warren, Director, International Armaments Cooperation
- Keynoters**
- 0900-0925 Mr. Kim In-ho, President, Agency for Defense Development (ADD), Korea
- 0930-0955 Dr. David Kershaw, Chief, Maritime Division, Defence Science and Technology Group, Australia
- 1000-1025 Dr. Tateo Yamaoka, Acquisition, Technology & Logistics Agency (ATLA), Ministry of Defense, Japan
- 1030-1055 Dr. Brian Young, Director, Defence Technology Agency, New Zealand
- 1100-1125 Mr. Lim Teow Hoe, Deputy Future Systems and Technology Architect, Singapore
- 1130 **Coalition Warfare Program Overview**
The Coalition Warfare Program (CWP) leverages U.S. and foreign investments to conduct cooperative R&D projects. CWP supports DoD goals of collaboratively addressing strategic technology gaps, developing interoperability solutions for coalition operations, and strengthening current defense partnerships and developing new relationships. It is the only Office of the Secretary of Defense program dedicated to initiating cooperative RDT&E projects with allies and coalition partners.

Col Mike Malley, USAF, Deputy Director for Coalition Warfare,
OUSD(AT&L)/International Cooperation

Agenda

- 1200 **Lunch with Keynote Speaker – Coral Ballroom 3**
Mr. Jeff Moulton is the Executive Director of Transformation Technologies and Cyber Research Center and the Stephenson National Center for Security Research and Training. These research centers are a consortium partnership among US federal, private organizations, and the Louisiana State government at the Louisiana State University. Mr. Moulton will discuss recent activities and achievements in support of their research partners.

Mr. Jeff Moulton, Director of Transformation Technologies & Cyber Research Center, LSU
- 1300 **DTRA S&T International Engagement – Coral Ballroom 4 - 5**
The Defense Threat Reduction Agency (DTRA) is an agency within the US DoD and is the official Combat Support Agency for countering weapons of mass destruction (chemical, biological, radiological, nuclear, and high explosives). Dr. Williams will emphasize DTRA's international S&T engagement.

Dr. Rhys Williams, J9, DTRA
- 1320 **RDECOM S&T International Engagement Session**
The U.S. Army Research, Development and Engineering Command (RDECOM) is charged with creating, integrating and delivering technology-enabled solutions to our Soldiers. RDECOM scientists, engineers and researchers work at laboratories and research center across the nation and the globe. With more than 14,000 employees, RDECOM performs nearly all of the Army's basic and applied research and technology development. Ms. Kate Mangum will emphasize RDECOM's international S&T engagement.

Ms. Kate Mangum, RDECOM
- 1345 **Industry IRAD**
Dr. George Ka'iliwai will discuss the methodology by industry to brief USG Industry Research and Development (IRAD) at PACOM. PACOM has an interest in maximizing synergy with industry partners toward increased economic productivity and timeliness of R&D investment to meaningful market product utility.

Dr. George Ka'iliwai, Director, Resources and Assessments, USPACOM
- 1415 **Break – Coral Lounge**
- 1445 **Enlisted Panel – Coral Ballroom 4 - 5**
The U.S. non-commissioned officer corps is the Pride of America. During this panel, we host enlisted leaders from all branches of service to provide frontline perspectives on S&T needs and effectiveness of solutions.

Facilitator: Sergeant Major Anthony Spadaro, USMC, Senior Enlisted Leader, USPACOM
YNC(SS) Derrick Neese, Flag Writer to ADM Scott Swift, COMPACFLT
SFC Jon Hofer, SOCPAC
SFC Brian Scott Christian, USARPAC
TSgt Joseph Neejer-Widener, 647 CES/JB37, PACAF
Gunnery Sergeant Woolford, Theater Security Cooperation Chief, MARFORPAC
- 1600 **Technology Insertion into Exercises**
Military exercises present opportunities for R&D efforts to see early warfighter assessment and feedback. We will discuss procedures, past examples, and future opportunities for inserting technologies into exercises.

Mr. Tony Cortese, Senior Military Analyst, J81, USPACOM
- 1630 **Adjourn**

THURSDAY, MARCH 9 – SPECIAL TOPIC WORKSHOPS

0700 **Conference Registration and Breakfast – Coral Lounge**

Session A – Biological and Chemical Threats: From Detection to Decision Workshop

Chemical and biological weapons that can kill and bring significant harm to a large number of humans or cause great damage to human-made structures (e.g. buildings), natural structures (e.g. mountains), or the biosphere are of great international concern. Both state, non-state, and transnational organizations continue to weaponize instruments of indiscriminate terror. This panel will look at the whole mission chain from detection and tracking to response and resolution of international response programs.

Session B – Pacific Disaster Center Demonstration

The Pacific Disaster Center (PDC) uses information, science, and technology to enable effective evidence-based decision making and to promote disaster risk reduction (DRR) concepts and strategies. This workshop will demonstrate PDC's free apps and tools, such as Disaster Alert, Disaster Alert, and Weather Wall.

Session C – Small Satellites for Peace

Space-based capabilities have dramatically affected global civilization and have distinct advantages toward thwarting the tyranny of distance in the vast Asiatic and Pacific regions. While benefit to size and cost densities have increased, so have the threatening vectors to space operations. In this panel, leaders throughout coalition space agencies will highlight new trends, initiatives, and opportunities for collaboration.

Session D – Air and Space Industry Seminar

Dr. Sorin Lungu is a Professor in the Department of National Security and Industrial Base at the Eisenhower School of National Security and Resource Strategy at the National Defense University. This workshop will share Dr. Lungu's insights gained while leading the Aircraft Industry Study program, Indo-Asia-Pacific focused Long-Term Strategy, diagnostic net assessment, defense strategic planning, military technology diffusion and Asian defense markets dynamics.

0800-0945 **Special Topic Workshops A, C**

Session A – Biological and Chemical Threats: From Detection to Decision Workshop

Nautilus Meeting Room

Dr. F. Michael von Fahnstock, USPACOM; Ms. Charlotte "Charlie" Teague, International Program Manager, DTRA; Ms. Kathleen Quinn; Mr. Thomas McKnight; Mr. John Hannan; Chris Kiley; Anthony Esposito; Mr. Ryan Madden; Mr. Hank Zhu; Mr. Ric Jones; Mr. Aiguo Wu

Session C – Small Satellites for Peace (Session agenda at registration desk)

Kahili Meeting Room

Dr. Martin Lindsey, USPACOM; Ms. Erica Sullivan, Dr David Voss, Dr Luke Flynn, Mr John Hanna, Mr. Michael Johnson, Col Bob Reeves, Mr. Harjinder Jolly

0800-0830 **Special Topic Workshop B**

Session B – Pacific Disaster Center Demonstration

Hibiscus Meeting Room

Mr. Jared Batzel, Pacific Disaster Center

0945-1015 **Break**

Agenda

1015-1200 **Special Topic Workshops A, C**

Session A - Biological and Chemical Threats: From Detection to Decision Workshop

Nautilus Meeting Room

Dr. F. Michael von Fahnstock, USPACOM; Ms. Charlotte "Charlie" Teague, International Program Manager, DTRA; Ms. Kathleen Quinn; Mr. Thomas McKnight; Mr. John Hannan; Chris Kiley; Anthony Esposito; Mr. Ryan Madden; Mr. Hank Zhu; Mr. Ric Jones; Mr. Aiguo Wu

Session C - Small Satellites for Peace (Session agenda at registration desk)

Kahili Meeting Room

Space-based capabilities have dramatically affected global civilization and have distinct advantages toward thwarting the tyranny of distance in the vast Asiatic and Pacific regions. While benefit to size and cost densities have increased, so have the threatening vectors to space operations. In this panel, leaders throughout coalition space agencies will highlight new trends, initiatives, and opportunities for collaboration.

1200 **Lunch - Coral Ballroom 3**

1300-1445 **Special Topic Workshops A, C, D**

Session A - Biological and Chemical Threats: From Detection to Decision Workshop

Nautilus Meeting Room

Dr. F. Michael von Fahnstock, USPACOM; Ms. Charlotte "Charlie" Teague, International Program Manager, DTRA; Ms. Kathleen Quinn; Mr. Thomas McKnight; Mr. John Hannan; Chris Kiley; Anthony Esposito; Mr. Ryan Madden; Mr. Hank Zhu; Mr. Ric Jones; Mr. Aiguo Wu

Session C - Small Satellites for Peace (Session agenda at registration desk)

Kahili Meeting Room

Dr. Martin Lindsey, USPACOM; Ms. Erica Sullivan, Dr David Voss, Dr Luke Flynn, Mr John Hanna, Mr. Michael Johnson, Col Bob Reeves, Mr. Harjinder Jolly

Session D - Air and Space Industry Seminar

Hibiscus Meeting Room

Facilitator: Mr. George Galdorisi, Director for Strategic Assessments and Technical Futures, SPAWAR Systems Center Pacific (SSC-PAC); Dr. Sorin Lungu, Professor, National Defense University

1445-1515 **Break**

1515-1700 **Special Topic Workshops A, C, D**

Session A - Biological and Chemical Threats: From Detection to Decision Workshop

Nautilus Meeting Room

Dr. F. Michael von Fahnstock, USPACOM; Ms. Charlotte "Charlie" Teague, International Program Manager, DTRA; Ms. Kathleen Quinn; Mr. Thomas McKnight; Mr. John Hannan; Chris Kiley; Anthony Esposito; Mr. Ryan Madden; Mr. Hank Zhu; Mr. Ric Jones; Mr. Aiguo Wu

Session C - Small Satellites for Peace (Session agenda at registration desk)

Kahili Meeting Room

Dr. Martin Lindsey, USPACOM; Ms. Erica Sullivan, Dr David Voss, Dr Luke Flynn, Mr John Hanna, Mr. Michael Johnson, Col Bob Reeves, Mr. Harjinder Jolly

Session D - Air and Space Industry Seminar

Hibiscus Meeting Room

Facilitator: Mr. George Galdorisi, Director for Strategic Assessments and Technical Futures, SPAWAR Systems Center Pacific (SSC-PAC); Dr. Sorin Lungu, Professor, National Defense University

1700 **Adjourn**

THURSDAY, MARCH 9 - US AND FVEY PARTNER COLLABORATION

0700 **Bus Departs from Hilton Hawaiian Village (Tapa Tower) for Hale Ikena, Fort Shafter**

0800 **Admin Remarks**
Welcome

0815 **Situation Brief (J8)**
This talk provides a strategic and operational overview of USPACOM's area of responsibility.

Lt Col Matt "Bulldog" Nicholson, USAF, J81, USPACOM

0930 **Break**

1000 **Problems and Solution Vectors from Components Panel**
Senior leaders from the USPACOM service component commands will provide their perspectives to capitalize on existing resources, shape future S&T portfolios, and highlight recent S&T successes.

Facilitator: Maj Gen Kevin B. Schneider, Chief of Staff, USPACOM

Admiral Scott Swift, Commander, COMPACFLT

Mr. J. Scott Norwood, Strategic Effects Director to the Commander, USARPAC

CAPT William Stevens, Deputy Commander for Support, SOCPAC

Dr. Azar Ali, Chief Scientist, PACAF

Lieutenant General David H. Berger, Commander, MARFORPAC

Marine Forces Pacific - USMC Invited

1130 **Lunch / USPACFLT Bridge Innovation Final Four!**
Facilitator: Mr. Ross Wilhelm, Science Advisor, USPACFLT

1230 **USPACOM Integrated Priority List (IPL) Brief**
Dr. Ka'iliwai will discuss and field questions on USPACOM's Integrated Priority List (IPL).

Dr. George Ka'iliwai, Director, Resources and Assessments, USPACOM

1400 **NORAD/USNORTHCOM Science and Technology Integrated Priority List**

Col Paula Hamilton, USAF, Science and Technology, J8, NORAD and USNORTHCOM

1430 **Break**

Agenda

1500 **DOE R&D Enterprise Panel**
Senior leaders from the Department of Energy will discuss R&D efforts within their laboratories.

Facilitator: General Charles Holland (Ret), Former Commander, US Special Operations Command
Dr. William Goldstein, Laboratory Director, Lawrence Livermore National Laboratory
Ms. Jill Hruby, President and Laboratories Director, Sandia National Laboratories
Dr. Tony Peurrung, Associate Lab Director for National Security, Pacific Northwest National Laboratory
Dr. Terry Wallace, Jr., Principal Associate Director for Global Security, Los Alamos National Laboratory
VADM (R) Kendall Card, Global Security Directorate, Oakridge National Laboratory

1630 **Conference Adjourns**

1700 **Bus Departs from Hale Ikena, Fort Shafter for Hilton Hawaiian Village (Tapa Tower)**

FRIDAY, MARCH 10 - US AND FVEY PARTNER COLLABORATION

0700 **Bus Departs from Hilton Hawaiian Village (Tapa Tower) for Hale Ikena, Fort Shafter**

0800 **Admin Remarks**
Welcome

0815 **DoD Service Lab R&D Enterprise Session**
Senior leaders from the the DoD Services will discuss R&D efforts within their laboratories.

Dr. Lawrence "Larry" Schuette, Director, Office of Research, ONR
Col Evan Dertien, USAF, Vice Commander, AFRL
BG Anthony W. Potts, Deputy Commanding General, RDECOM

930 **Multi-Domain Battle**
Colonel Strader will present remarks on multi-domain battle.

COL O. Kent Strader, USA, Chief, Strategy and Innovation Division, USARPAC

1000 **DoD Agency R&D Enterprise Session**
Senior leaders from the the DoD Agencies will discuss R&D efforts related to USPACOM.

Mr. Roger Garay, Enterprise Portfolio Analyst & DTIC Liaison to CCMDs, DTIC
Dr. Ron Hann, Chem-Bio Technologies, DTRA
Mr. Richard Matlock, Program Executive, Advanced Technology, MDA

1115 **The Way Ahead**
Dr. Ka'iliwai will present provide highlights, recurring themes, and conclusive direction on onward goals and innovative initiatives derived from the POST conference to shape coalition S&T activity in the coming years.

Dr. George Ka'iliwai, Director, USPACOM

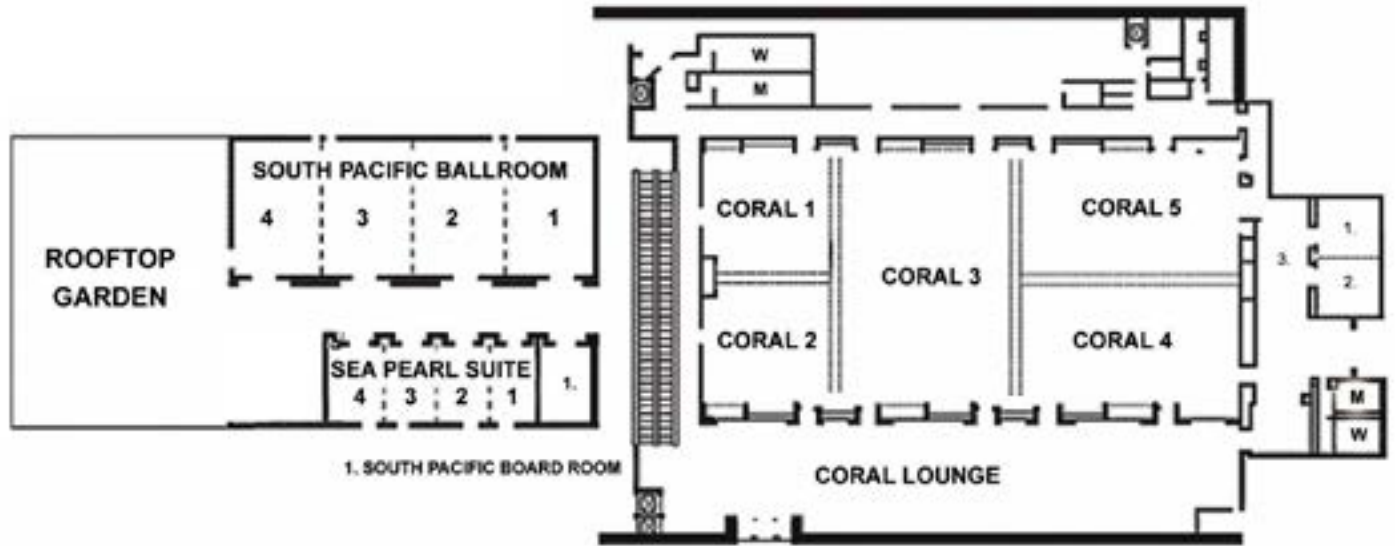
- 1145 **Closing Remarks**
United States Army Pacific postures and prepares Army forces, sustains and protects those forces in the theater, supports the development of an integrated joint force across domains, and builds military relationships that develop partner defense capacity in order to contribute to a stable and secure Pacific Command area of responsibility. General Brown will inspire us to leverage this week's discussions and professional connections to capitalize on S&T investments that provide operational impact.
- GEN Robert B. Brown, USA, Commanding General, USARPAC
- 1200 **Conference Adjourns**
- 1215 **Bus Departs from Hale Ikena, Fort Shafter for Hilton Hawaiian Village (Tapa Tower)**

Speaker Biographies

Speaker bios can be found at the POST Conference website:

<http://www.ndia.org/events/2017/3/6/2017-pacific-operational-science-and-technology-conference>

Conference Floor Plan



Exhibitor Move-In:

Monday, March 6th 8:00am - 4:00pm
Registration opens at 7:00am

Exhibit Area Open Hours:

Tuesday, March 7th 8:00am - 4:00pm
Reception in the Exhibit Area 4:00pm - 5:30pm
Wednesday, March 8th 8:00am - 3:00pm

Exhibit Hall Only Registrants

Tuesday, March 7th 8:00am - 12:00pm
Wednesday, March 8th 8:00am - 12:00pm

Exhibitor Move-Out:

Wednesday, March 8th 3:00pm - 8:00pm

Please Note:

- NO PHOTOGRAPHY is allowed in the exhibit hall. Cameras and cell phones will be confiscated by security if they are used to photograph any exhibit without prior consent from NDIA management.
- No one under the age of 16 will be permitted in the exhibit hall.
- All bags are subject to search.

Company Name	Booth #
BAE Systems	11
Cyber Security and Information Systems Information Analysis Center	6
Defense Technical Information Center (DTIC)	7
DTRA J9-CB	43
Georgia Tech Research Institute	5
GSA FEDSIM	10
Liquid Robotics	31
Lockheed Martin	44
Los Alamos National Laboratory	8
Martin UAV	33
NOAA Pacific Islands Fisheries Science Center	50
Sierra Nevada Corp	42
Technology Experimentation Center (TEC)	35
Technology Experimentation Center TEC	36
University of Hawaii, College of Engineering	37
UTC Aerospace Systems	49

Exhibits Profiles

BAE Systems

11

At BAE Systems, our pride and dedication shows in everything we do, from innovative electronic systems to intelligence analysis and cyber operations, from combat vehicles and weapons to the maintenance and modernization of ships, aircraft and critical infrastructure. Knowing that our work makes a difference inspires us, every day. That's BAE Systems. That's Inspired Work.

Cyber Security and Information Systems Information Analysis Center

6

Quanterion Solutions Incorporated provides quality analytical services across a wide range of technical disciplines for both government and commercial customers. Our diverse staff of knowledgeable subject matter experts (SMEs) brings expertise from several scientific fields, and our experience with the collection, synthesis and dissemination of scientific and technical information (STI) ensures that we can deliver solutions to solve even the most challenging technical problems.

Defense Technical Information Center (DTIC)

7

The Defense Technical Information Center (DTICR) has served the information needs of the Defense community for more than 70 years. Reporting to the Assistant Secretary of Defense for Research and Engineering (ASD(R&E)), DTIC's mission is to aggregate and fuse science and technology data to rapidly, accurately and reliably deliver the knowledge needed to develop the next generation of technologies to support our Warfighters and help assure national security.

DTRA J9-CB

43

The Chemical and Biological Technologies Department is part of the Defense Threat Reduction Agency and also serves as the Joint Science & Technology Office under the U.S. Department of Defense Chemical and Biological Defense Program. Our research safeguards warfighters and citizens against chemical and biological threats of today and tomorrow.

Georgia Tech Research Institute

5

Georgia Tech Research Institute (GTRI) is a recognized world leader for applied research and development with world-class engineers and scientists who solve some of the toughest problems facing government and industry. Positioned within Georgia Tech, GTRI conducts over \$360 million in sponsored research annually. Core research areas include complex and agile systems engineering, sensor design and integration, information management and cyber security, and defense technology development.

GSA FEDSIM

10

GSA FEDSIM is the only full service, government-wide assisted acquisition organization that provides federal agencies with hands-on strategic direction and development through all phases of the federal government acquisition process. Each client receives tailor-made strategies, dedicated customer service, and unmatched technical expertise. Our comprehensive, integrated approach enables clients to focus on what is most important, accomplishing their agency mission, while we focus on the details.

Liquid Robotics

31

Liquid Robotics designs and manufactures Wave Gliders®, the first wave and solar powered autonomous ocean robots. With our partners we address many of the planet's greatest challenges, by transforming how to assess, monitor, and protect the ocean. We solve critical problems for defense, commercial, and science customers.

Lockheed Martin

44

Headquartered in Bethesda, Maryland, Lockheed Martin is a global security and aerospace company that employs approximately 97,000 people worldwide and is principally engaged in the research, design, development, manufacture, integration and sustainment of advanced technology systems, products and services.

Los Alamos National Laboratory

8

LANL is a multidisciplinary research institution engaged in strategic science, enhancing national security by ensuring the safety and reliability of the U.S. nuclear stockpile, developing technologies to reduce threats from weapons of mass destruction, and solving problems related to energy, environment, infrastructure, health and global security concerns.

Martin UAV

33

At Martin UAV, our mission is to provide customers with world-class unmanned aircraft systems. We specialize in building innovative, groundbreaking platforms, such as the V-BAT; a first-of-its-kind, VTOL UAS that combines the ability to hover with the efficiency of high speed horizontal flight. Martin UAV's Tier II aircraft are designed with a safety focused approach to fill critical operational needs in a rapidly changing environment. www.martinuav.com

Pacific Islands Fisheries Science Center

50

NOAA's Pacific Islands Fisheries Science Center administers and conducts scientific research and monitoring programs that support the domestic and international conservation and management of living marine resources across the Pacific Islands Region. PIFSC employs a variety of technologies in carrying out these objectives, including AUVs and ROVs, passive and active acoustic instruments, satellite remote sensing, underwater stereo camera systems, and many more.

Sierra Nevada Corp

42

SNC's tactical, small form-factor EW systems are the premier systems of choice for the DoD and OGA's; integrating offensive & defensive electronic attack and electronic support capabilities. SNC won the open competition to produce the USMC's dismounted electronic warfare systems, and will deliver over 600 Modi II systems in 2016.

Technology Experimentation Center TEC

35 & 36

The TEC is a network of RDT&E organizations and operational force technology communities working together to enable the warfighter through field experimentation. The TEC provides project management and technology assessments to effectively bridge the gap between technology solutions and requirements. The TEC is expertly staffed to provide multi-level leadership, guidance, and direction for ready-to-field-test emerging technologies at experimentation venues throughout the world.

University of Hawaii, College of Engineering

37

Aloha Kakou! The College of Engineering, University of Hawaii at Manoa is the ONLY accredited engineering program in the State of Hawaii. We are now 108 years old, and we are located within 3 miles from Hilton Hawaiian Village. We have many research programs in collaboration with the DoD in Civil and Environmental, Computer, Electrical, and Mechanical Engineering disciplines. We encourage you to come visit our exhibit booth as well as visit our campus and labs. Mahalo Nui Loa!!!

UTC Aerospace Systems

49

UTC Aerospace Systems, located in Westford, Massachusetts, is one of the world's largest providers of tactical and strategic ISR sensor systems. Specializing in multi-spectral imaging (MSI) and long range ISR sensors, UTC Aerospace Systems manufactures and supports the SYERS-2 system on the U-2, the MS-177 Family of Systems on the RQ-4B Global Hawk UAS, the DB-110/MS-110 sensors, TacSAR active sensor, and TASE family of gimbaled turrets. Mission support services are part of our portfolio.

Attendee Roster

(as of February 27, 2017)

Vicki Aardema
Parsons

Christopher Abt
Lockheed Martin Corporation

Julie Albers
Booz Allen Hamilton

Azar Ali
Pacific Air Forces/ST

Michael Alves
BAE Systems Network Enabled Solutions

Brian Anderson
Textron Systems

Jeremy Andrews
Frontier Technology, Inc.

Matthew Apostolou
UTC Aerospace Systems

Ricardo Arias
USAFRICOM

Gary Arnold

Steven Ashby
Pacific Northwest National Laboratory

Carl Ayers
SRI International

Brant Bailey
Montana State University

Jared Batzel
Pacific Disaster Center

Robert Bauder
Navmar Applied Sciences Corporation

Michael Bender
Aerojet Rocketdyne

Thomas Bentzel
U.S. Army Research, Development & Engineering Command

Thomas Beutner
Office of Naval Research

Kristan Biggs
Lockheed Martin Rotary and Mission Systems

Don Bolling
Lockheed Martin

Jon Borden
Defense Advanced Research Projects Agency

Todd Bosse
Pacific Disaster Center

Jason Bousquet
Space and Naval Warfare Systems Center Pacific

Tim Boyce
MARFORPAC

Christopher Boyer
Northrop Grumman Aerospace System

John Bradburn
SRI International

John Brandes
Lockheed Martin Rotary and Mission Systems

Jeff Brown
Georgia Tech - GTRI

Kenneth Bruner
Lawrence Livermore National Laboratory

Mark Buffum
MARFORPAC

Andy Burcham
Liquid Robotics

Bonita Burke
MIT Lincoln Laboratory

Melissa Burns
USPACOM J9

Jake Bursack
Joint Improvised-Threat Defeat Organization

Thomas Bussing
Raytheon Missile Systems

Jeffrey Butcher
NUWC Det San Diego

Fred Byus
Battelle

Kendall Card
Oak Ridge National Laboratory

Atherton Carty
Lockheed Martin

Joseph Casas
National Aeronautics and Space Administration

Christopher Centamore
Advanced Optical Systems, Inc.

Russell Chan
Lockheed Martin Corporation

Daniel Chartier
UXO Center of Excellence

Dave Chen
Lockheed Martin

Bernard Chin
Ministry of Defence, Singapore

Clifton Ching
Naval Undersea Warfare Center Detachment Pacific

Kenneth Clark
U.S. Naval Research Laboratory

Christa Cochran
OUSD(AT&L)/International Cooperation

Darlene Coen
NASA

Robert Coen
GSA-FEDSIM

Rob Coen
GSA FEDSIM

John Collier
Southern Research Institute

Anthony Colucci
Lockheed Martin Corporation

Peter Colvin
USPACOM J3

Jack Craft
Frontier Technology, Inc.

Scott Craig
Australian Department of Defence

Nathan Creech
PACOM J8

Vincent Crook
DHL Express

Larry Cutshaw
University of Hawaii

Evelyn Dahm
USA Unique Mission Cell

James Dalberg
UTC Aerospace Systems

Kallie de Vries
Lockheed Martin

Jerome DeJaco
SPAWAR Systems Center Pacific

Brian Dela Cruz
NORAD and USNORTHCOM

Christopher Delp
U.S. Navy SPAWAR Systems Center Pacific

Kathy DeMartini
Lockheed Martin Space Systems Company

Evan Dertein
Air Force Research Lab

James Dew
Defense Threat Reduction Agency

Bryan Dieter
Pacific Islands Fisheries Science Center

Janet Dixon
Lockheed Martin Corporation

Timothy Dolan
Raytheon Company

Mark Donofrio
NPS-RSC-NCR

Edward Downing
RDECOM

Martin Drake
U.S. Central Command

Jan Drobik
Embassy of Australia

Wadad Dubbelday
SPAWAR Systems Center Pacific

Bob DuLaney
Lockheed Martin

Attendee Roster

(as of February 27, 2017)

Robert Dunn
Lockheed Martin Aeronautics Company

Grady Eakin
Raytheon Company

Brian Edwards
Office of the Deputy Assistant Secretary of the Army for Defense Exports and Cooperation (DASA-DE&C)

William Emerson
BAE Systems

Terri Erdag
Special Operation Command, Pacific

Andy Erickson
Los Alamos National Laboratory

Anthony Esposito
DTRA

Mark Essenberg
US PACOM

Kenneth Evensen
ITC-PAC

Anthony Ferrari
Raytheon Missile Systems

Mark Fink
HQ USPACOM/J68

Kenneth Fisher
US Pacific Command

Luke Flynn
Hawaii Space Flight Laboratory, University of Hawaii

Jeffrey Fugate
Millennium Engineering and Integration Company

George Galdorisi
SPAWAR Systems Center, Pacific

Thomas Gallagher
Office of Naval Research Global

Roger Garay
Defense Technical Information Center

Mariaelena Garcia-Reynante
SPAWAR Systems Center Pacific

Darnell Gardner
DTRA J9-CB

Thomas Gathmann
The Boeing Company

James Gerard
Chesapeake Technology International Corporation

Eric Gillespie
Naval Undersea Warfare Center Division Keyport

Paul Gilley
Lockheed Martin Corporation

Victor Giuliano
Aerojet Rocketdyne

Cynthia Glenister
PACOM J3

David Glock
Johns Hopkins University Applied Physics Laboratory

Matthew Goda
HQ USPACOM

Zachary Golosov

Arlene Goyette
Defense Technical Information Center (DTIC)

David Green
US Army

william griswold
Lockheed Martin Missiles and Fire Control

Gene Guttromson
L-3 Advanced Programs

Kerry Habiger
Los Alamos National Laboratory

Mark Hadley
Pacific Northwest National Laboratory

Thomas Hagler
Sandia National Laboratories

Paula Hamilton
NORAD USNORTHCOM

Ronald Hann
Defense Threat Reduction Agency

John Hanna
Spaceflight Industries

John Hannan
Defense Threat Reduction Agency

Terence Haran
Georgia Tech Research Institute

Mark Harysch
PACOM/J81

Kenneth Heeke
Office of Naval Research

Dustan Hellwig
Chesapeake Technology International Corporation

Bryan Heverly
PACOM JIOC/CM-NMO-1

Deanne Hidalgo
Lockheed Martin Corporation

Yuri Higashi
Consulate General of Japan in Honolulu

Andrew Higier
USSOUTHCOM

Jonathan Hofer
Special Operations Command Pacific

Ryan Hoffman
Office of Naval Research

Errol Holcomb
Naval Undersea Warfare Center Division Keyport

Misty Holmes
Lockheed Martin

Nick Holoviak
Rockwell Collins

Jill Hruby
Sandia National Laboratories

Bill Humbert
Los Alamos National Laboratory

John Ikegami
South Bay Science & Technology Corp

Paul Ims
Northrop Grumman Corporation

Ken Iwanski
Office of Naval Research

Jonathan Jackson
Office of Naval Research

Keoki Jackson
Lockheed Martin Corporation

Richard Jackson
SRI International

Don Jagoe
Liquid Robotics

Manuela Jaramillo
Pacific Science & Engineering Group

Jim Jenkins
Marine Corps Warfighting Lab

Steve Jennings
DTRA J9-CB

Jeff Jensen
Aerojet Rocketdyne

Michael Johnson
NASA Goddard Space Flight Center

Harjinder Jolly
UK Ministry of Defense

Brandon Jones
Millennium Engineering and Integration Company

Michael Jones
U.S. Pacific Command

Timothy Jones
JUSMAG-K

Walter Jones
Office of Naval Research

William Jones
U.S. Army Engineer Research and Development Center

George Ka'iiliwai
USPACOM, J8

Robert Kania
RDECOM ITC-PAC

Adil Karim
OUSD(I)

Adil Karim
OUSD(I)

Attendee Roster

(as of February 27, 2017)

William Kearns
Lockheed Martin

Santipong Keller
Special Operations Command Pacific

Deborah Kelley
NORAD and USNORTHCOM

Sean Kelly
Booz Allen Hamilton

Scott Key
U.S. Strategic Command

JuHyun Kim
Embassy of Korea

Jerry King
USPACOM

Steven King
The MITRE Corporation

Steve Klasen
Orbital ATK

Joshua Knisley
The MITRE Corporation

John Knutson
HQ NORAD & USNORTHCOM

David Kubik
The Johns Hopkins University/APL

Robert Kundinger
Sparton Corp. Defense & Security Systems

Linda Kusumoto
Space and Naval Warfare Systems Center Pacific

Alex Lagundi
Special Operations Command Pacific

Kyle Lampela
Defense Threat Reduction Agency

Glenn Lapoint
USPACOM

Henry Lau
MIT Lincoln Laboratory

Jonathan Lau
BAE Systems

William Laughton
General Dynamics Electric Boat

Jason Lautar
Special Operations Command Pacific

Martin Ledington
USTRANSCOM Strategy, Policy, Programs, and Logistics

Alex Lee
MoD, Embassy of Singapore

Peter Lee
Special Operations Command Pacific

Vincent Lee
USPACOM

Robert Lee
Sierra Nevada Corp

Albert Legaspi
SSC-PAC

Kirk Lewis
Lockheed Martin

Teow Hoe Lim
Future Systems & Technology Directorate, Ministry of Defence

Martin Lindsey
USPACOM/J85

William Lonardo
NUWC Div., Newport

James Long
Raytheon Company

Robert Long
Air Force Joint Test Program Office

Paul Losiewicz
Cyber Security and Information Systems Information Analysis Center

Alexander Lovett

Ryan Lu
SPAWAR Systems Center Pacific

Denise Lujan
Los Alamos National Laboratory

Sorin Lungu
National Defense University

Artie Mabbett
Raytheon Integrated Defense Systems

Adam MacDonald
AeroVironment, Inc.

Marlan Macklin
OUSD(AT&L), IC

Karen Mackovjak
PACOM J81

Leslie MacRae
PACOM J2/JIOC

Michael Malley
OUSD(AT&L)/International Cooperation

Katherine Mangum
RDECOM

Victoria Manuel
DTRA

John Marcotte
Sierra Nevada Corporation

Andrew Margules
RDECOM/USARAK

Mekisha Marshall
Department of the Navy

Brandon Martin
American Association for the Advancement of Science

Joseph Martin
Center for Excellence in Disaster Management & Humanitarian Assistance

Alicia Martinez
Los Alamos National Laboratory

Doug Mason
Cyber Security and Information Systems Information Analysis Center

Kenneth Masson
Orbital ATK

Dennis Mathews
Northrop Grumman Aerospace System

Richard Matlock
Missile Defense Agency

Jerry Mazanowski
Lockheed Martin

Wayne McAuliffe
Martin UAV

Jeffrey McCreary
Georgia Tech Research Institute

J.D. McCreary
Georgia Tech Research Institute

Charlie McCullough
BAE Systems

Charlie McCullough
BAE Systems

Darcy McGinn
Orbital ATK

Brian McKay
USPACOM J81

Robert McKinney
Marine Corps Warfighting Lab

Edward McKinzie
Georgia Tech Research Institute

Robert Medve
Trenchant Analytics, LLC.

Robert Meeks
Office of Defense Cooperation

Robert Meeks
Office of Defense Cooperation

Jay Melillo
Naval Undersea Warfare Center-Div., Newport

Michael Messina
HQ PACAF

Randall Michael
GSA FEDSIM

Randall Michael
GSA FEDSIM

Albert Miller

Ira Miller
SRI International

John Moore

Attendee Roster

(as of February 27, 2017)

Cesar Morales
SRI International

Jeffrey Morrison
Office of Naval Research

Reed Mosher
U.S. Army Engineer Research & Development Center

Geoffrey Moss
COMSUBPAC

Jeff Moulton
Louisiana State University, Transformational Technologies

Hae-Jung Murphy
Sandia National Laboratories

John Murphy
Defense Advanced Research Projects Agency

Carl Myers
Lockheed Martin

John Myles
SSC Pacific

Dave Newberry
U.S. Coast Guard Pacific Area

Hung Nguyen
Sandia National Labs

Loc Nguyen
Naval Sea Systems Command

Ross Nguyen
UXO Center of Excellence

Matthew Nicholson
USPACOM J81

Mariel Norat
National Ground Intelligence Center

Scott Norwood
USARPAC

Thomas Ogden
Commander U.S. Pacific Fleet

Joel Ogren
ACA International

Deanna Ortega
Sierra Nevada Corp

Scott Osterman
Commander Submarine Forces

Sebrina Pabon
USPACOM/J82

Joseph Pacheco
Northrop Grumman Corporation

Kelvin Palmer
SRI International

Brent Parker
USARPAC

Aram Partizian
Georgia Tech Research Institute

Darin Partridge

James Pasquino
The Boeing Company

Angela Pawlowski
Lockheed Martin Rotary & Mission Systems

Tina Peabody
Defense Technical Information Center (DTIC)

Raphael Pei
SPAWAR Systems Center Pacific

Amey Peltzer
U.S. Naval Research Laboratory

John Perry
BAE Systems

John Perry
BAE Systems

Randy Peterson

Bryan Phillips
RDECOM Pacific

Joanne Pilcher
SPAWAR Systems Center Pacific

Brad Pilsl
Booz Allen Hamilton

Paul Plemmons
Sierra Nevada Corp

Jerry Poettker
The Boeing Company

Gary Polansky
Sandia National Laboratories

Mike Possedi
Ciena

Anthony Potts
US Army Research, Development & Engineering Command

Gregory Power
USPACOM S&T Office

Alan Pue
The Johns Hopkins University/Applied Physics Lab

Jorge Pules
US Army

Rick Pyatt
UTC Aerospace Systems

Chris Raney
Space and Naval Warfare Systems Center Pacific

Nicholas Rau
Naval Undersea Warfare Center Division Keyport

Franz Ravelo
MARFORPAC

Bob Reeves
PACAF A3/6

Jeffrey Remington
Northrop Grumman Corporation

David Restione
The Johns Hopkins University/Applied Physics Lab

Melissa Rhoads
Lockheed Martin Corporation

Mary Lou Robinson
Air Force Research Lab Directed Energy

Brendan Rogillio
Sandia National Laboratories

Ross Roley
HQ USPACOM J81

Audrey Rollo
Pacific Islands Fisheries Science Center

Elmer Roman
Assistant Secretary of Defense, Research & Engineering

Gary Rose
PACAF/ABX

Scott Rose
Office of Naval Research Global

Melinda Rozga-Moore
Defense Technical Information Center

Jay Ryskamp
MARFORPAC

Michael Sahag
The Boeing Company

Alan Samuels
US Army RDECOM Edgewood Chem Bio Center

Jeffrey Sanders
HQ PACAF/ST

Blake Sawyer
Martin UAV

John Scarcello
Lockheed Martin

Gerald Scott
Naval Postgraduate School

Steven Sharkey
NORAD USNORTHCOM J8 S&T

Paul Shigley
SPAWAR Systems Center Pacific

SANG HUN SHIN
Embassy of Republic of the Korea

Frank Sizemore
PACOM J46

David Smallwood
Northrop Grumman Mission Systems

Charles Smith
Department of the Air Force

Jeffrey Smith
Missile Defense Agency

Thomas Smith
U.S. Central Command

Attendee Roster

(as of February 27, 2017)

Timothy Smith
USPACOM J81

Paul Smith
Lockheed Martin

Amy Smith-Carroll
OPNAV N9

Kent Snyder
Sierra Nevada Corp

Gregory Sollitto
Northrop Grumman Aerospace Systems

Michael Solomon
HQ US Pacific Command

Ralph Starace
Northrop Grumman Corporation

Steven Steptoe
Neany, Inc.

Richard Sterchele
UTC Aerospace Systems

Richard Sterchele
UTC Aerospace Systems

James Stevens
Northrop Grumman Marine Systems

William Stevens
Special Operations Command Pacific

Dan Stone
AeroVironment, Inc.

Kevin Strouse
TEC

Ricky Stuart
Science Applications Int'l Corporation

John Stuhfrie
Northrop Grumman Corporation

Jon Stutter
Lockheed Martin

Erica Sullivan
Los Alamos National Laboratory

Neil Szanyi
COMSUBPAC

Dale Takenaka
Integrity Applications Incorporated

Melinda Tate
SAF/IAPQ

Kirsten Taylor
USFK

Lawrence Thomas
HQ USPACOM

James Tobin
SAF/IA

Emilio Torres
AFRL/XP

Dimitris Tsintikidis
SPAWAR Systems Center Pacific

Arthur Tulak
PACOM J81

Kenneth Twombly
Northrop Grumman Corporation

Kimberly Underwood
Calvert Systems Engineering, Inc.

Clinton Ung
Northrop Grumman Electronic Systems

David Uribe
Defense Technical Information Center

Rebecca Vacinek

Brett Vaughan
OPNAV

Eldon Vita
Raytheon Missile Systems

Frank von Fahnstock
USPACOM S&T Office (J85)

David Voss
Air Force Research Laboratory

Richard Vuylsteke
East-West Center

David Walker
Office of Naval Research

Terry Wallace
Los Alamos National Laboratory

Thomas Wallace
Georgia Tech Research Institute

Thomas Wallace
Georgia Tech Research Institute

Matthew Warren
OUSD (AT&L) Pacific Armaments Cooperation

Christopher Watkins
The Johns Hopkins University/Applied Physics Lab

Thomas Wears
Northrop Grumman Corporation

Stephen Weatherford
US Pacific Command

Wayne Weishaar

Steven Whitmarsh
Aurora Flight Sciences Corporation

John Wilcox
Orbital ATK

Ross Wilhelm
Commander US Pacific Fleet

Bruce Wilkins
Defense Information Systems Agency

Rhys Williams
Defense Threat Reduction Agency (DTRA)

Deidre Williams
DTRA J9-CB

Steve Wingfield
The Boeing Company

Michael Winslow
U.S. Navy SPAWAR Systems Center Pacific

Alex Wong
DARPA SBIR Office

Darryll Wong
Sierra Nevada Corporation

Winnifred Yamaguchi
US Pacific Command

Tateo Yamaoka
Acquisition, Technology & Logistics Agency, Ministry of Defense

Peter Yoo
SPAWARSYSCEN PACIFIC

David Yoshihara
COMPACFLT

Brian Young
Defense Technology Agency, NZ Defence Force

Joel Young
U.S. Pacific Command

Jorge Zambrana
N&NC/J8 S&T

Neil Zerbe
AeroSpace & Defense Industry Partners

Adam Zimet
Office of Naval Research