# NDIR

# **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,

Miked Gon

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 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, Cheif, 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 **Kevnoters** 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, Australlia 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 Warefare 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 indiscriminant 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 Fahnestock, 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



#### 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 Fahnestock, 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

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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 Fahnestock, 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 Fahnestock, 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

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#### 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	<b>Situation Brief (J8)</b> 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	<b>Problems and Solution Vectors from Components Panel</b> 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	<b>USPACOM Integrated Priority List (IPL) Brief</b> 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	<b>DoD Service Lab R&amp;D Enterprise Session</b> 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	<b>Multi-Domain Battle</b> Colonel Strader will present remarks on multi-domain battle.
	COL O. Kent Strader, USA, Chief, Strategy and Innovation Division, USARPAC
1000	<b>DoD Agency R&amp;D Enterprise Session</b> 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	<b>The Way Ahead</b> 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



#### 1145Closing 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

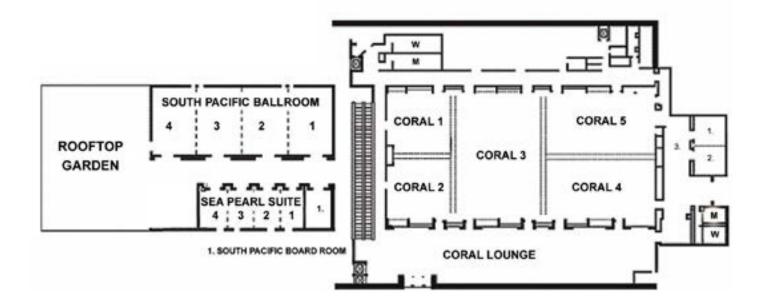
#### 1200 Conference Adjourns

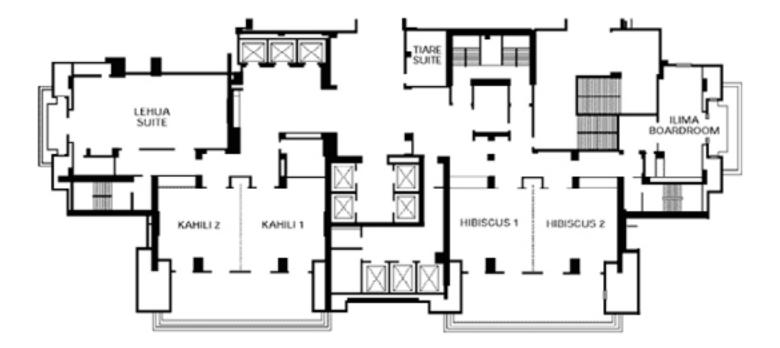
1215 Bus Departs from Hale Ikena, Fort Shafter for Hilton Hawaiian Village (Tapa Tower)

#### **Speaker Biographies**

Speaker bios can be found at the POST Conference webiste: http://www.ndia.org/events/2017/3/6/2017-pacific-operational-science-and-technology-conference

# **Conference Floor Plan**





# **Exhibit Schedule**

#### **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**

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

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

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

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**

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GSA FEDSIM is the only full service, governmentwide 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**

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**

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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.

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#### **Martin UAV**

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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

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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.

# **Exhibits Profiles**

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**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**

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 Pacifc 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 Bovce MARFORPAC

Christopher Bover 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 NPS-RSC-NCR

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

**Edward Downing** RDECOM

Martin Drake U.S. Central Command

Jan Drobik Embassy of Australia

Wadad Dubbelday SPAWAR Systems Center Pacific

**Bob DuLaney** Lockheed Martin 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

**Deanelle 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

## Attendee Roster (as of February 27, 2017)

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'iliwai 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

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

### Attendee Roster (as of February 27, 2017)

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/A8X

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 Stuhfirie 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 Fahnestock 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