

Announcing the Premier Unmanned Aircraft Systems Symposium on the West Coast!

UNMANNED AIRCRAFT SYSTEMS WEST

For Defense and Government

Just Added
Networking
Reception, Meet &
Mingle with Guest
Speakers and
Colleagues!

- OPPORTUNITIES, CAPABILITIES, NEEDS AND CHALLENGES -

Keynote Presentations by:



Brig Gen Aaron Prupas, USAF

Dir., Warfighting Operations Support
to the Deputy Chief of Staff, HQ USAF



Mr. Kenneth Callicutt, SES

(J8) Dir, Capability and Resource
Integration (USSTRATCOM)



CAPT Mike Davis, USN

Deputy J36, Space and Integrated Air
and Missile Defense Div, (USPACOM)



Dr. George Kailiwai, III, SES

Dir., Resources and Assessment
Directorate (USPACOM)

- Emerging UAS DoD and Government Needs & Requirements from:
 - USA • USN • HQ USAF • USMC • USPACOM • USSTRATCOM • USSOUTHCOM • TRADOC
- Major UAS Program Updates and Emerging Platforms Needs, Capabilities & Opportunities
- Cutting-Edge Mission Opportunities and Updates Within Homeland Security, Customs & Border Protection, Maritime Security, and FAA

Over 20 Guest Expert Presenters from: HQ USAF, USSTRATCOM, USPACOM, USSOUTHCOM, USA PEO AVIATION, USA RIAC, COMNAVAIRFOR/CNAF, DoD COA, USMC (VMU-1/MAG-13), 432d Wing Group, 160th Attack Squadron/ANG, USNAVSO/USFOURTHFLT, Army 2-13th Aviation Regiment, Northrop Grumman, General Atomics Aeronautical Systems, Frost & Sullivan, and Dentons US LLP.

San Diego, CA • August 29-30, 2017



Symposium Management by: Technology Training Corporation
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UNMANNED AIRCRAFT SYSTEMS WEST (For Defense and Government)

DoD has reported Unmanned Aircraft Systems (UAS) growth rate between 2015 and 2035. It is expected that federal agency UAS fleets will grow from a few hundred to approximately 10,000, with over 90 percent of these vehicles categorized as Nano, Micro, or Small UAS. Ultralight, Light Sport, and Medium sized UAS will find a role with a number of agencies, such as Bureau of Land Management or Coast Guard, who need to survey large tracts of land or water for a variety of missions. In all cases, the UAS is the transport for the payload, be it sensors or cargo. The number and type of UAS developed, acquired, and deployed will be driven by mission needs and costs. Analysts still predict growth in this industry, estimating a total increase to just over \$89 billion in the next decade. Not only is the military expected to sustain its backing of UAS technology, but the civil and commercial markets are poised to open up to a host of opportunities for the industry.

"Unmanned Aircraft Systems West" is a very valuable investment in your time. Attendees will obtain invaluable information on the emerging opportunities in the **Military, Government, Commercial and Civil Markets** found nowhere else. Key program offices will examine UAS from first hand experiences and address the **Needs, Requirements and Opportunities** needed. Key issues will include:

- **Emerging Defense and Government UAS Needs & Requirements**
- **DoD UAS Joint Program Updates, Emerging Platform & Sensor Capabilities, Training & Testing**
- **UAV Program Updates and Platforms**
- **Developing Counter UAS & Detect & Avoid Technologies**
- **sUAS Innovations, Growth, Capabilities and Opportunities**
- **FAA NAS Regulatory Updates**

Our Distinguished Panel of UAS Experts

Brigadier General Aaron Prupas, USAF	Dir., Warfighting Operations Support to the Deputy Chief of Staff, ISR, Headquarters U.S. Air Force
Mr. Kenneth Callicutt, SES	J8 Director Capability and Resource Integration, U.S. Strategic Command (USSTRATCOM)
Dr. George Kailiwai III, SES	Dir., Resources and Assessment Directorate (J8) (USPACOM)
CAPT Mike Davis, USN	Deputy J36, Space and Integrated Air and Missile Defense Div, (USPACOM)
COL Courtney Cote, USA	Project Manager, U.S. Army UAS PEO Aviation, Redstone Arsenal
CDR (USN-ret) Chris "Pyro" Fitzgerald	Contract Support, Commander Naval Air Forces Pacific (N809A), (COMNAVAIRFOR, CNAF), UAS Requirements
CAPT Terence Hoeft, USN	CNAP Deputy Force Requirements (N8A)
CAPT John Fischer, USN	CNAP Aviation Safety Director, (N45)
Mr. Ed Ward	Chief, UAS Fleet Management, U.S. Army UAS PEO Aviation, Redstone Arsenal
Mr. Mark Farrar	Dir. of Training, USA, UAS Training Center, 2-13th Aviation Regiment, Fort Huachuca, AZ
LtCOL Todd "Dutch" Holland, USMC	Commanding Officer, Marine Aircraft Group, 3rd Marine Aircraft Wing
Mr. Mike Blades	Research Director, Aerospace & Defense, Frost & Sullivan
Colonel Paul A. Cravey, USA	Dir., TRADOC Capabilities Manager, UAS, US Army Aviation Center of Excellence
Dr. Fabrice Kunzi	UAS Civilian Airspace Integration, General Atomics Aeronautical Systems, Inc.
CAPT Ted Venable (USN ret)	CNT/UAS Program Manager at Commander, U.S. Naval Forces South and CDR, U.S. 4th Fleet Counter Illicit Trafficking PM
Major Dan "Matrix" Riley, USAF	Dir., Emerging Technologies Combined Test Force
LT Phillip Martinez, USN	J2 Directorate Collection Requirements Management Branch Chief, (USSOUTHCOM)
Maj Marshall Gray, USA	Assistant Product Manager, Tactical UAS Project Office, Redstone Arsenal
Ms. Jennifer Gillum	Dir., Army Rapid Integration and Acceptance Center (RIAC)
Mr. Mark Dombroff	Partner, Dentons US LLP
Lt Col Matthew "Bronco" Brancato, USAF	Commander, 160th Attack Squadron, Air National Guard
Mr. Michael Lyons	Global Hawk Business Development, Northrop Grumman Aerospace Systems
Mr. Joseph Hosack	Science & Technology Branch Chief, (USSOUTHCOM)
LTC Col Dan Isabell, USA	G3, Army Intelligence Center of Excellence, Fort Huachuca, AZ
LTC (USA-ret) Barney Owens	DoD Certificate of Authorization (COA) Manager
Senior Representative	432d, Air Expeditionary Wing Group, Creech Air Force Base

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I. Emerging Military UAS Needs, Initiatives & Opportunities

U.S. AIR FORCE KEYNOTE PRESENTATION



“Air Force RPA Needs, Requirements and Emerging Capabilities”

BRIGADIER GENERAL AARON PRUPAS, USAF

Director of Warfighting Operations Support to the Deputy Chief of Staff, ISR, Headquarters U.S. Air Force



U.S. STRATEGIC COMMAND KEYNOTE PRESENTATION



“USSTRATCOM UAS Needs & Requirements”

MR. KENNETH CALLICUTT, SES

J8 Director Capability and Resource Integration, U.S. Strategic Command (USSTRATCOM)



USSPACOM KEYNOTE PRESENTATIONS

“Unmanned Aerial Systems – Providing Deployed Forces and Base Defense in the Age of Drones”

CAPT MIKE DAVIS, USN

Deputy J36, Space and Integrated Air and Missile Defense Division, U.S. Pacific Command (USPACOM)



“USPACOM UAS and C-UAS Requirements and Capabilities”

DR. GEORGE KAILIWAI, III, SES

Director, Resources and Assessment Directorate (J8), United States Pacific Command (USPACOM)



“Army UAS Capabilities”

COLONEL COURTNEY COTE, USA

*Project Manager, Unmanned Aircraft Systems, Program Executive Office,
U.S. Army Aviation, Redstone Arsenal*



“Leveraging Unmanned Systems to Project/Sustain the Warfighter”

COLONEL PAUL A. CRAVEY, USA

*Director, TRADOC Capabilities Manager, Unmanned Aircraft Systems,
US Army Aviation Center of Excellence*



“UAS Fleet Management Needs & Requirements”

MR. ED WARD

Chief, UAS Fleet Management, U.S. Army UAS PEO Aviation, Redstone Arsenal



“UAS Training Programs”

MR. MARK FARRAR

*Director, of Training, USA, UAS Training Center, 2-13th Aviation Regiment,
Fort Huachuca, AZ*



“Army Intelligence Center of Excellence Programs”

LTC DAN ISABELL, USA

G3, Army Intelligence Center of Excellence, Fort Huachuca, AZ



“Army Rapid Integration Center Programs & Capabilities”

MS. JENNIFER GILLUM

Director, Army Rapid Integration and Acceptance Center (RIAC)



“Shadow Block III – MUM-T Integration”

MAJOR MARSHALL GRAY, USA

Assistant Product Manager, Tactical UAS Project Office, Redstone Arsenal



“VMU-1 UAS Plans, Programs & Capabilities”

LIEUTENANT COLONEL TODD “DUTCH” HOLLAND, USMC

*Commanding Officer, Marine Unmanned Aerial Vehicle Squadron 1 (VMU-1),
Marine Aircraft Group 13, (MAG-13), 3rd Marine Aircraft Wing*



“Navy’s TYCOM – UAS Update”

COMMANDER (USN ret) CHRIS “PYRO” FITZGERALD, USN

*Contract Support, Commander Naval Air Forces Pacific (N809A),
(COMNAVAIRFOR, CNAF), UAS Requirements*



“Commander, Naval Air Forces UAS Requirements and Capabilities”

CAPT TERENCE “TREE” HOEFT, USN

CNAP Deputy Force Requirements (N8A) and

CAPT JOHN “FISH” FISCHER, USN

CNAP Aviation Safety Dir., (N45)



“U.S. Fourth Fleet Update - Theater of Innovation and UAS in the Maritime Environment”

CAPT (USN ret) TED VENABLE

*CNT UAS Program Manager at Commander, U.S. Naval Forces South and Commander,
U.S. Fourth Fleet Counter Illicit Trafficking Program Manager (COMUSNAVSO/C4F), USN*



"RPA Roles and Missions at USSOUTHCOM"

LT PHILLIP MARTINEZ, USN

J2 Directorate Collection Requirements Management Branch Chief, United States Southern Command (USSOUTHCOM) and

MR. JOSEPH HOSACK

Science & Technology Branch Chief, (USSOUTHCOM)



"USAF sUAS Testing in the Emerging Technologies CTF"

MAJOR DAN "MATRIX" RILEY, USAF

Director, Emerging Technologies Combined Test Force



U.S. AIR FORCE

"163D Attack Wing RPA Needs & Capabilities"

LT COL MATTHEW "BRONCO" BRANCATO, USAF

Commander, 160th Attack Squadron, Air National Guard



"432d UAS for the Warfighter"

SENIOR REPRESENTATIVE

432d, Air Expeditionary Wing Group, Creech Air Force Base



II: Drone Integration in the NAS: Testing, Regulatory and Market Forecast

"UAS MOA in the NAS Plans & Policies Update"

LTC (USA-ret) BARNEY OWENS

DoD Certificate of Authorization (COA) Manager



"Manufacturing and Operating UAS Commercially: The Latest in Legal & Regulatory Considerations"

MR. MARK DOMBROFF

Partner, Dentons U.S. LLP

DENTONS

"Global UAS: Market Size, Trends and Observations"

MR. MIKE BLADES

Research Director, Aerospace & Defense, Frost & Sullivan

FROST & SULLIVAN

III: Multi Spectral Sensor Capabilities – Cutting Edge Detect & Avoid Technologies

"Detect and Avoid for Large UAS"

DR. FABRICE KUNZI

UAS Civilian Airspace Integration, General Atomics Aeronautical Systems, Inc.

GENERAL ATOMICS
AERONAUTICAL

"Global Hawk MS-177 Multi-Spectral Sensor Capabilities"

MR. MICHAEL LYONS

Global Hawk Business Development, Northrop Grumman Aerospace Systems

NORTHROP GRUMMAN

Would you like to be an exhibitor at this symposium?

Please contact Bradford Barrett at 310-320-8110 or Bbarrett@ttcus.com to find out how your organization can participate.

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- Active Military U.S. Govt Civilian Individual
 University Teams 3/more

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Registration: 8:15 a.m. August 29, 2017
Program begins at 9:00 a.m.

San Diego, CA • August 29-30, 2017

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FEE:

Symposium	U.S. Government		Individual	University	Teams of 3 or More (each)
	Active Military	Civilian (Non-Contractors)			
UAS-C	Complimentary	Complimentary	\$1290	\$495	\$995

SOCO Advisory 11-02: Accordingly, the reasonable per day attendance fee for purposes of JER 3-211.a(7) is now \$675.

Special Exhibitor and Sponsorships at Tiered Pricing (includes General Session), Contact Bradford Barrett at (310) 320-8110 or Bbarrett@ttcus.com.

SPECIAL HARDSHIP SCHOLARSHIP PROGRAM: A number of seats have been set aside for every seminar and symposium for any motivated attendee who is unable to attend due to severe financial limitations of his/her company or if they are under very tight military limitations. Students will be eligible for a very substantial discount.

PAYMENT POLICY: Payments, both domestic and international, must be received on or before the first day of the symposium. **No attendee will be admitted into the symposium without payment** by either check, credit card (VISA, Mastercard, AMEX, Discover and Diners Club accepted) or **U.S. Government purchase order**.

CANCELLATIONS: Substitutions may be made at any time. A cancellation service charge of \$150 will be rendered for all cancellations received fifteen days or more prior to the start of the symposium date. Registrants whose cancellation requests are not received fifteen days prior to the individual symposium, as well as no shows, are liable for the entire registration fee. You must obtain a cancellation number from our registrar.

Tuition, symposium documentation, and refreshments, are included in the fee.

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