



# FAA UAS SYMPOSIUM

**Welcome**

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Federal Aviation  
Administration





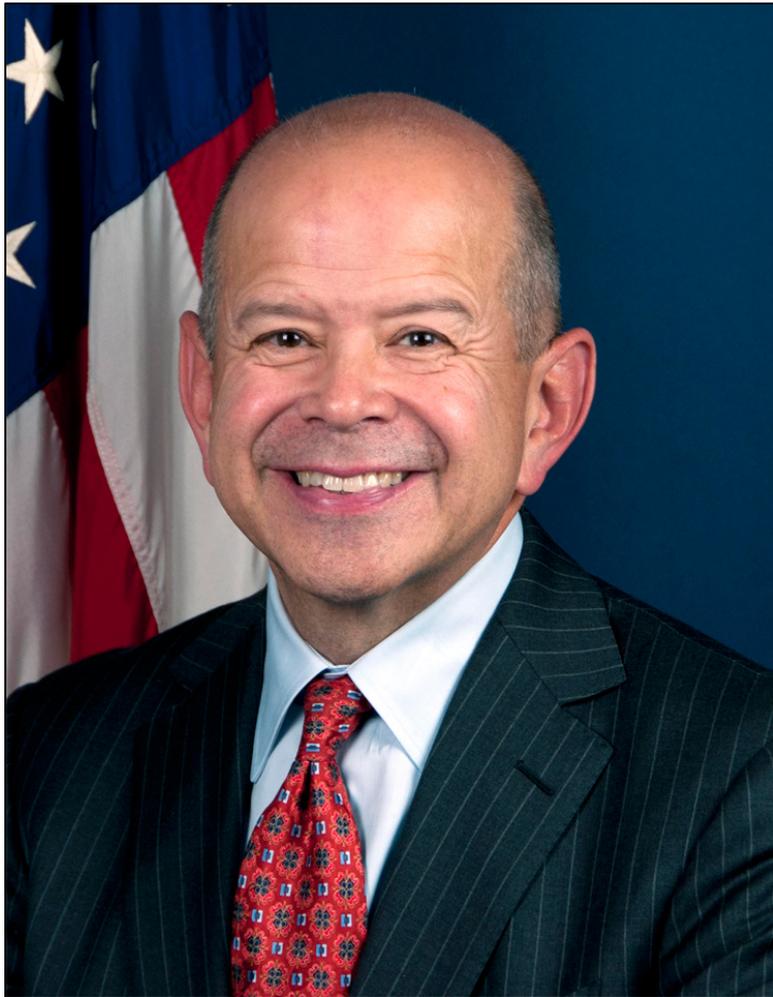
# Welcome

## Brian Wynne

President & CEO, Association for  
Unmanned Vehicle Systems International

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# Opening Remarks

**Michael P. Huerta**

Administrator,  
Federal Aviation Administration

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# FAA Executive Panel



- **Moderator: Michael P. Huerta**, Administrator, Federal Aviation Administration
- **Peggy Gilligan**, Associate Administrator, FAA Aviation Safety Organization
- **Teri Bristol**, Chief Operating Officer, FAA Air Traffic Organization
- **Winsome Lenfert**, Acting Associate Administrator, FAA Office of Airports
- **James Eck**, Assistant Administrator, FAA NextGen Office

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# Stakeholder Engagement Panel



- **Moderator: Victoria Wassmer**, Acting Deputy Administrator, FAA
- **Marke “Hoot” Gibson**, FAA Senior Advisor on UAS Integration
- **Earl Lawrence**, Director, FAA UAS Integration Office
- **Bryan Quigley**, Managing Director and System Chief Pilot, United Airlines, and Co-Chair, Drone Advisory Committee Subcommittee
- **Nancy Egan**, Advisor to the CEO, 3D Robotics, and Co-Chair, Drone Advisory Committee Subcommittee
- **Ben Marcus**, CEO, AirMap, and Co-Chair, Unmanned Aircraft Safety Team
- **Margaret Jenny**, President, RTCA, Inc.

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# Brian Wynne, AUVSI President & CEO, Drone Advisory Committee member



Brian Wynne is president and CEO of the Association for Unmanned Vehicle Systems International (AUVSI), the world's largest nonprofit organization dedicated to the advancement of unmanned systems and robotics. Wynne brings in-depth experience in transportation and technology applications gained through leadership roles with industry associations and public-private partnerships. Prior to joining AUVSI in January 2015, he was president and CEO of the Electric Drive Transportation Association (EDTA), the trade association promoting battery, hybrid, plug-in hybrid, and fuel cell electric drive technologies and infrastructure.

Wynne is a member of the Drone Advisory Committee (DAC), a group of key decision-makers formed by the Federal Aviation Administration (FAA) to support the safe introduction of Unmanned Aircraft Systems (UAS) into the nation's airspace. He is also a member of the FAA's Unmanned Aircraft Safety Team (UAST), which is comprised of stakeholders from government and the aviation industry that gather and analyze data to enhance UAS safety and operations. He also served on the FAA's UAS Registration and Micro UAS task forces.



Wynne earned a bachelor's degree from the University of Scranton, and a master's degree from the School of Advanced International Studies at Johns Hopkins University. He was also a Fulbright Scholar at the University of Cologne in Germany. For more than 20 years, Wynne has been an instrument-rated, general aviation pilot, and recently received a commercial pilot certificate. He flies a Socata Trinidad.

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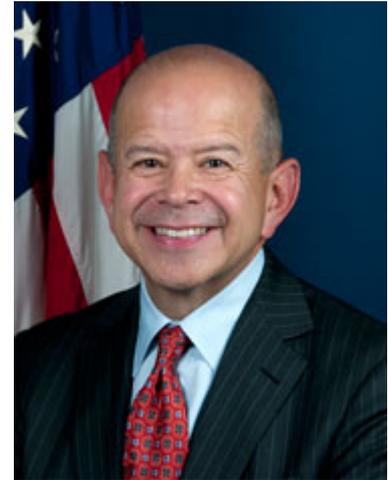


# Michael P. Huerta, Administrator, Federal Aviation Administration



Michael P. Huerta is the Administrator of the Federal Aviation Administration (FAA). He was sworn-in to office on January 7, 2013 for a five year term. Administrator Huerta was confirmed by the U.S. Senate as the FAA Deputy Administrator on June 23, 2010. On January 1, 2013, the U.S. Senate unanimously confirmed President Obama's nomination of Mr. Huerta for a 5-year term as FAA Administrator.

Mr. Huerta is responsible for the safety and efficiency of the largest aerospace system in the world. He oversees a \$15.9 billion dollar budget, over 47,000 employees and is focused on ensuring the agency and its employees are the best prepared and trained professionals to meet the growing demands and requirements of the industry. Mr. Huerta also oversees the FAA's multi-billion dollar NextGen air traffic control modernization program as the U.S. shifts from ground-based radar to state-of-the-art satellite technology.



He holds a Bachelor of Arts in political science from the University of California-Riverside and a master's degree in public affairs, with a concentration in international relations from the Woodrow Wilson School of Public and International Affairs at Princeton University.

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# Margaret Gilligan, FAA Associate Administrator for Aviation Safety



Peggy Gilligan is the Federal Aviation Administration's (FAA) Associate Administrator for Aviation Safety (AVS). Ms. Gilligan leads the organization responsible for setting, overseeing, and enforcing safety standards for all parts of the aviation industry – airlines, manufacturers, repair stations, pilots, mechanics, air traffic controllers, flight attendants, and any person or product that operates in aviation. These programs have a direct impact on every facet of domestic and international civil aviation safety. AVS programs are carried out by a work force of more than 7,000 employees located throughout the world. The organization's annual budget is more than \$1 billion. Additionally, she serves as the government co-chair of Commercial Aviation Safety Team's (CAST) – a joint industry/government group committed to improving aviation safety by reducing the risk of accidents.



Prior to her current position, Ms. Gilligan served as the Deputy Associate Administrator for Aviation Safety for 14 years, and she was an FAA Chief of Staff serving under four Administrators. She also served in the Chief Counsel's office in headquarters, and as a staff attorney in the FAA's Eastern Region in New York.

Ms. Gilligan is a graduate of the Boston University School of Law and also of Manhattanville College, in Purchase, NY.

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# Teri Bristol, Chief Operating Officer, FAA Air Traffic Organization



Teri L. Bristol was appointed as the Federal Aviation Administration's (FAA) Chief Operating Officer (COO) of the Air Traffic Organization (ATO). The ATO encompasses more than 30,000 employees providing core functions of Air Traffic Services, Technical and System Operations. ATO also provides Safety and Technical Training, Mission Support Services, Management Services, and Program Management Organization. In her role, she is responsible for ensuring the safety, efficiency and security of air traffic operations across the entire National Airspace System (NAS). She provides leadership and direction for all ATO service units.

During her FAA career, Ms. Bristol has consistently assumed positions of increasing responsibility while establishing an extensive foundation of experience leading, directing, and managing throughout the ATO. She served as Deputy COO of the ATO from 2012 to 2013 where she focused on the operation of and assumed greater responsibility for international air navigation services.

Ms. Bristol holds a bachelor's degree in marketing and transportation from the University of Maryland and is a Certified Program Management Professional.



# Winsome Lenfert, Acting Associate Administrator, FAA Office of Airports



The mission of the Airports organization is to provide leadership in planning and developing a safe and efficient national airport system. The office is also responsible for national airport planning, as well as environmental and social requirements. The office establishes policies related to airport rates and charges, compliance with grant assurances and airport privatization.

Ms. Lenfert began her aviation career working for the Indiana Department of Transportation as Chief Airport Inspector before starting her FAA career as an Airport Certification Safety Inspector. She has held many FAA positions including Airport Certification/Safety specialist in Washington, DC; community planner for the O'Hare Modernization Program in Chicago, Illinois; Assistant Manager of the Detroit Airport District office in Detroit, Michigan; Manager of Regional Operations for the Southern Region Airports Division in Atlanta, Georgia; Detail as Acting Deputy Director of Airports Division, Western-Pacific Region in Los Angeles, California; and Director for the Airports Division Southern Region in Atlanta, Georgia.



Ms. Lenfert graduated from Indiana State University with a double major in professional pilot technology and aviation administration, a minor in business administration, and a master's degree in public affairs from Indiana University. She is also a graduate of the Office of Personnel Management's Federal Executive Institute Leadership for Democratic Society. Ms. Lenfert has a commercial pilot certificate with an instrument rating and held a Certified Flight Instructor Certificate.

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# James Eck, Assistant Administrator, FAA NextGen Office



Jim Eck is the Assistant Administrator for NextGen at the Federal Aviation Administration (FAA). The NextGen Organization is responsible for leading the modernization of the National Airspace System (NAS), the move to a smarter, satellite-based system with digital technologies and advanced procedures that will ensure safe and efficient air travel for decades to come. Mr. Eck leads a federal workforce of about 900 employees and manages the \$1 billion annual budget of the Next Generation Air Transportation System (NextGen). His office also oversees the world's leading aviation research complex at the William J. Hughes Technical Center in Atlantic City, N.J.



Formerly, Mr. Eck served as the Vice President of the Program Management Organization in the Air Traffic Organization responsible for all NextGen program activity, infrastructure modernization programs, and service to legacy NAS infrastructure. Mr. Eck has worked acquisition programs since joining the FAA in 1996. In addition to program development and execution, he has been active in leading acquisition management policy and workforce development. Prior to joining the FAA, Mr. Eck spent 18 years working for the U.S. Navy, concluding his work with the Naval Command Control and Ocean Surveillance Center in tactical communications research and development.

Mr. Eck is a graduate from the Pennsylvania State University with a bachelor's degree in electrical engineering, and from the University of Pennsylvania with a master's degree in system engineering.

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# Victoria Wassmer, Acting Deputy Administrator, FAA



Victoria Wassmer is the Federal Aviation Administration's (FAA) Acting Deputy Administrator. She is responsible for helping to ensure the safe and efficient operation of the world's largest and most complex aerospace system. As Chief NextGen Officer, she is also leading the FAA's transformation and modernization of the nation's air traffic control system from a radar-based system with radio communication to a satellite-based system that leverages new technologies to shorten routes, reduce fuel consumption and traffic delays, increase capacity, and improve safety.

Ms. Wassmer has more than 20 years of experience in establishing and leading high-profile organizations and programs in both public and private industry. Most recently, she served as the FAA's Assistant Administrator for Finance and Management where she directed the agency's \$16.3 billion budget and a Finance and Management workforce of 3,500 employees. In late 2011, under her leadership, the agency consolidated its corporate support functions under a forward-thinking, shared services operating model. This shared services model reduced bureaucracy, cut the agency's administrative overhead expenses, eliminated redundancies, and improved service to the flying public.

Ms. Wassmer holds a master's degree in public policy from Harvard University and bachelor's degree in political science from Bryn Mawr College.



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# Marke “Hoot” Gibson, Senior Advisor on UAS Integration, FAA



In September 2015, Marke Gibson joined the Federal Aviation Administration (FAA) as the Senior Advisor on UAS Integration. He provides executive direction and high level leadership to the FAA with responsibility for oversight of the work related to UAS. In addition, he is responsible for developing and delivering business and strategic plans for enterprise-level UAS initiatives, analyzing integration progress, engaging in scientific and research activities, and maintaining liaison with internal and external stakeholders.

Prior to joining the FAA, Mr. Gibson served as the Executive Director of the NextGen Institute (NGI). In that position, he promoted the NextGen Institute throughout the industry, created awareness and gained new support for NextGen initiatives.

Mr. Gibson also served as the President and CEO of a highly successful aerospace consulting practice in Colorado. He retired in 2011 as the Air Force’s Director of Current Operations and Training.

Mr. Gibson earned a Bachelor of Economics and Management from the United States Air Force Academy. He also received a Master of Business Administration from the University of Northern Colorado and a Master of National Security Affairs from the National War College. He completed a national security fellowship with Syracuse University and trained in lean six-sigma management through the University of Tennessee.



# Earl Lawrence, Director, FAA UAS Integration Office



Earl Lawrence is the Director of the Unmanned Aircraft Systems (UAS) Integration Office within the Federal Aviation Administration, which is responsible for the facilitation of all regulations, policies, and procedures required to support the FAA's UAS integration efforts. The office serves as a central point of contact for the international aviation community on UAS issues. Mr. Lawrence also represents the FAA on the Senior Steering Group of the UAS Executive Committee (ExCom) focusing on coordination and alignment of efforts among key federal government agencies.

Mr. Lawrence previously served as the Manager of the FAA's Small Airplane Directorate in Kansas City, Missouri, where he managed airworthiness standards, continued operational safety, policy, and guidance for small aircraft, gliders, light sport aircraft, airships, and balloons.

Prior to joining the FAA in 2010, Mr. Lawrence was the vice president of industry and regulatory affairs for the Experimental Aircraft Association (EAA) in Oshkosh, Wisconsin. Mr. Lawrence is a graduate of Northrop University in Los Angeles.

A pilot since 1987, Mr. Lawrence holds a commercial multi-engine pilot certificate as well as an airframe and power plant mechanic certificate with an Inspection Authorization. He currently owns and flies a Piper Twin Comanche.



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# Bryan Quigley, Managing Director and System Chief Pilot, United Airlines



Captain Bryan Quigley is the Managing Director and System Chief Pilot for United Airlines. He is responsible for the safe, effective and efficient operation of the 12,500 professional airline pilots at United Airlines. Mr. Quigley joined United in 1995 as a pilot, serving as a first officer on the B737, B757/767, B777, A319/320, and now serves as a captain on the A319/320.

Before joining United, Mr. Quigley served in the U.S. Navy as an officer and naval aviator, and with U.S. Customs as a counter-narcotics pilot and federal agent. During his 26-year career in the Navy, Bryan flew the P-3C Orion and achieved the rank of Captain before retiring from the Naval Reserve. He served as the commanding officer of Patrol Squadron SIXTY-TWO (VP-62) in Jacksonville, FL. After his command tour, he joined the NATO Supreme Allied Command-Transformation as a senior staff officer.



Bryan supports many industry-related organizations and represents United at the A4A Ops Council, IATA Flight Ops Group, NextGen Advisory Committee (Sub Committee), Drone Advisory Committee Subcommittee (co-chair) and serves on the Aviation Accreditation Board International (AABI) Board of Trustees. Mr. Quigley earned a bachelor's degree in business administration from Appalachian State University. In addition to completing multiple executive and leadership courses, he is currently enrolled in the Executive Scholar Program at Northwestern University's Kellogg School of Business.

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# Nancy Egan, Advisor to the CEO, 3D Robotics



Nancy Egan is a technology lawyer and UAS advisor. Ms. Egan previously served as the General Counsel and Executive Vice President of Public Policy for 3DR, and is currently Advisor to the CEO of 3DR. Ms. Egan is currently a member of the FAA Drone Advisory Committee (DAC) and a co-chair of DAC's Subcommittee. She recently acted as the industry co-chair of the FAA Micro UAS ARC providing industry recommendations regarding UAS flight over people, and served on the FAA's UAS Registration ARC.

Prior to joining 3DR, Ms. Egan was the General Counsel of Nanometrics and was the Associate General Counsel of Varian, Inc. until its acquisition by Agilent Technologies in 2010. She has also held legal leadership positions in the technology and media world.

Ms. Egan holds a bachelor's degree in political science from the University of Buffalo and a J.D. from the Notre Dame Law School.



# Ben Marcus, CEO, AirMap



Ben Marcus is co-founder and CEO of AirMap, the leading airspace management platform for UAS. Ben also serves as the industry co-chair for the Unmanned Aircraft Safety Team alongside the FAA's Earl Lawrence. Mr. Marcus was previously co-founder and CEO of jetAVIVA, the world's leading broker of small business jets, from 2006 to 2014. Prior to founding jetAVIVA, he served as a flight test engineer for Eclipse Aviation, maker of the Eclipse 500 very light jet. Mr. Marcus is an FAA-certified Airline Transport Pilot and Flight Instructor with more than 4,500 hours of flight experience in more than 100 aircraft types and ratings in seaplanes, gliders, helicopters, and six types of jets. He is also a certificated Remote Pilot.



Mr. Marcus has been passionate about aviation his entire life. As a Southern California resident who grew up in the shadows of the Santa Monica Airport, Mr. Marcus lifelong interest started with remote-control airplanes, leading him to his first flying lesson at age 10, and becoming a licensed pilot at 17. Mr. Marcus strongly believes that UAS can have a positive impact on our lives and hold immense possibility as tools for spurring innovation in both the private and public sectors. Mr. Marcus is often called upon by media as a UAS and aviation industry expert and has spoken at numerous emerging technology conferences and events to share his insights about the future of the UAS industry.

Mr. Marcus is a graduate of Purdue University's School of Aeronautics.

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# Margaret Jenny, President, RTCA, Inc.



Margaret T. Jenny was appointed president of RTCA, Inc., in August 2008, succeeding David S. Watrous. She arrived at RTCA after heading aviation consulting firm MJF Strategies, LLC, with partner John Fearnside, formerly director of the MITRE Corporation Center for Advanced Aviation System Development (CAASD). Ms. Jenny is the facilitator of the Drone Advisory Committee (DAC). This Federal Advisory committee was formed to provide an open venue for the FAA and key decision-makers supporting the safe introduction UAS into the national airspace system.

Prior to forming MJF Strategies in 2001, Ms. Jenny served as vice president of corporate business development at ARINC, director of Airline Business and Operations Analysis with US Airways, and technical director at MITRE CAASD. She also served as co-chairperson of the RTCA Free Flight Select Committee.

Ms. Jenny holds a bachelor's degree in sociology from Indiana University and a master's degree in computer science from American University.



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