



**AEROSPACE**  
ARIZONA



# Program Guide

**SUMMIT 2018**

A Partnership Between Aerospace Arizona and ASU Asure

November 7<sup>th</sup> – 9<sup>th</sup>

[aerospacearizona.org/summit2018](http://aerospacearizona.org/summit2018)

# Welcome to **SUMMIT 2018**

*Where the Sky's the Limit!*

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**We take great pleasure in welcoming you to the third annual Arizona UAS Summit Conference and Exhibition.** This is our most exciting event of the year, as we welcome national and international guest speakers, attendees and exhibitors. For this year's event, we have joined forces with Arizona State University to bring you the latest in policy updates, technology applications and the most promising developments in Arizona and the industry in general!

It is a very exciting time to be in the autonomous and unmanned industries. Ideas imagined several years ago have gained momentum, and there has been growth in every area, from regulations, academia, research to industry and commercialization.

Summit 2018 is this year's iteration of an event that has a history of uniting the best UAS minds in a single venue for an informational, pragmatic and content-filled three-day period. The agenda brings focused, technical presentations and demonstrations with speaker panels designed to shed light on the latest technology offerings, payload and software packages, use categories and business models as well as regulatory updates on the UAS industry.

Whether as a student, an industry or organizational attendee, an exhibitor or a sponsor, you will find the right fit to maximize your outreach, awareness and networking circle. Meet and connect with attendees from businesses large and small, universities, institutions of higher learning and dedicated UAS colleges as well as legislative members during the multiple breaks, receptions and industry tours.

Aerospace Arizona Association is unique in its ability to bring together academia, corporations, businesses and entrepreneurs to represent the industry on an equal footing and we are excited about the potential we see as we continue to grow our membership roster.

Thank you for joining me, my team and partners in experiencing Arizona's sophisticated UAS industry! And I look forward to personally welcoming and hopefully counting you among our association members.

*Moses Koyabe*

**Moses Koyabe**

President, Aerospace Arizona Association

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## things to **KNOW**

### venue

**ASU Polytechnic Campus**  
Student Union Building,  
Cooley Ballroom A/B  
5999 S. Backus Mall  
Mesa, AZ 85212

### hours

The official Summit hours are as follows:

Wednesday, November 7<sup>th</sup>

12:00 PM – 7:00 PM

Thursday, November 8<sup>th</sup>

7:00 AM – 7:30 PM

Friday, November 9<sup>th</sup>

7:00 AM – 12:00 PM

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## share **THE SUMMIT**

Share the Summit with your network!  
**#AeroAZ18**

## schedule of **EVENTS**

### **Mesa Gateway Tour**

Wednesday, November 7<sup>th</sup>

1:00 PM – 3:00 PM

*Seats are limited.*

*RSVP:*

If you haven't, please RSVP [info@aerospacearizona.org](mailto:info@aerospacearizona.org)

### **Mesa Gateway Tour**

Wednesday, November 7<sup>th</sup>

3:30 PM – 5:00 PM

*Seats are limited.*

*RSVP:*

If you haven't, please RSVP [info@aerospacearizona.org](mailto:info@aerospacearizona.org)

### **Summit Welcome & Networking at Barrio Brewery**

Wednesday, November 7<sup>th</sup>

5:30 PM – 7:30 PM

No Host Bar

5803 S. Sossaman Road

Mesa, AZ 85212

We'd like to welcome you to the summit by inviting you to Barrio Brewery for drinks and appetizers!

Barrio Brewing Company serves award winning beers and is the third largest independent brewery in the state of Arizona.

### **BBQ Dinner on the Sheraton Event Lawn**

Thursday, November 8<sup>th</sup>

6:00 PM – 8:00 PM

6850 E. Williams Field Road

Mesa, AZ 85212

*RSVP:* If you haven't, please RSVP [info@aerospacearizona.org](mailto:info@aerospacearizona.org)

### **Introduction by Mesa City Mayor John Giles**

# PROGRAM **AGENDA**



## Wednesday, November 7<sup>th</sup>

1:00 PM – 7:30 PM

LOCATION	TIME	ACTIVITY
Tour	1:00 PM – 3:00 PM	<b>Mesa Gateway Tour</b>
Tour	3:30 PM – 5:00 PM	<b>Polytechnic Campus Tour</b>
Ballroom C	12:00 PM – 3:00 PM	<b>Setup / Vendor Move-In</b>
Barrio Brewery	5:30 PM – 7:30 PM	<b>Happy Hour: Appetizers &amp; Drinks (No Host Bar)</b>

## Thursday, November 8<sup>th</sup>

7:00 AM – 8:00 PM

LOCATION	TIME	ACTIVITY
Ballroom C	7:00 AM – 7:45 AM	<b>Continental Breakfast</b> – On-site (Chance to Visit Exhibitors)
Ballroom A/B	8:00 AM – 8:15 AM	<b>Welcome Remarks</b> <i>Ann McKenna, ASU Polytechnic School</i>
Ballroom A/B	8:15 AM – 8:45 AM	<b>North Carolina Leading the Nation in UAS Innovation</b> <i>Darshan Divakaran, NCDOT</i>
Ballroom A/B	8:45 AM – 9:30 AM	<b>Driving Unmanned Space Flight in Arizona</b> <i>Arnaldo Soto, AQST Space Systems</i>
Ballroom A/B	9:30 AM – 10:15 AM	<b>Disruptive Technologies and the Convergence Towards Autonomous Systems</b> , <i>John Wolcott, Industrial Robotics</i>
Ballroom C	10:30 AM – 10:45 AM	<b>Refreshments On-Site</b>
Ballroom A/B	10:45 AM – 11:30 AM	<b>Status of FAA Waivers, Common Mistakes, Keys to Success and the IPP, How Participants Received Waivers</b> <i>Jeremy Grogan, Federal Aviation Administration</i>
Ballroom A/B	11:45 AM – 12:30 PM	<b>Autonomous Revolution of Vehicles and Transportation</b> <i>Mark Goldstein, Internal Research Center</i>
Ballroom C	12:30 PM – 2:00 PM	<b>Lunch</b>
Lawn Next to Parking Lot 10	12:30 PM – 2:00 PM	<b>Live Demo</b> <i>North Carolina Department of Transportation</i>

# Thursday, November 8<sup>th</sup>

7:00 AM – 8:00 PM

LOCATION	TIME	ACTIVITY
Ballroom A/B	2:00 PM – 2:45 PM	<b>Lessons Learned From Hurricane Harvey</b> <i>Tye Payne, Lone Star UAS Center of Excellence &amp; Innovation</i>
Ballroom A/B	3:00 PM – 3:20 PM	<b>International Perspective on UAS</b> <i>Matan Yemini, AIROBOTICS</i>
Ballroom A/B	3:25 PM – 3:45 PM	<b>International Perspective on UAS</b> <i>Glenn Williamson, Canada Arizona Business Council</i>
Ballroom C	3:45 PM – 4:00 PM	<b>Refreshments On-Site</b>
Ballroom A/B	4:00 PM – 4:45 PM	<b>UAS and Aviation – One of Arizona’s Competitive Advantages: State Policy.</b> <i>Representative Jill Norgaard, AZ Representative; Matt Clark, Office of the Governor; Representative Todd Clodfelter, AZ Representative, Representative Travis Grantham, AZ Representative.</i>
Ballroom A/B	5:00 PM – 5:45 PM	<b>The New FAA Reauthorization Act of 2018 and What It Means</b> <i>Sarah Nilsson, Nilsson Law, PLLC</i>
Four Points Sheraton Hotel	6:00 PM – 8:00 PM	<b>Dinner: Sheraton Event Lawn</b> Welcome by the City of Mesa Mayor John Giles
Ballroom A/B	6:30 PM – 8:30 PM	<b>Join AUVSI and the FAA for an Interactive Discussion on the State of the Remote Pilot Community. Voice and Prioritize Concerns for Regulation, Industry Needs, and Professionalism Within the Community.</b> <i>Lorie Grabham, AUVSI Arizona Chapter; Tina Buskirk, FAASTeam; Ernest Copeland, FAASTeam; Dr. Sarah Nilsson, Embry-Riddle Aeronautical University; Matthew Mintzmyer, AUVSI Arizona Chapter.</i>

# Friday, November 9<sup>th</sup>

7:00 AM – 12:15 PM

LOCATION	TIME	ACTIVITY
Ballroom C	7:00 AM – 7:45 AM	<b>Continental Breakfast – On-Site</b> (Chance to Visit Vendors)
Santan Hall Room 135	8:00 AM – 8:15 AM	<b>Aerospace Arizona Welcome Remarks</b>
Santan Hall Room 135	8:15 AM – 9:00 AM	<b>Leading the Future: Development of UAS Within Academia</b> <i>Stephen Fleming, University of Arizona; Don Wood, ASU Polytechnic School; Wenlong Zhang, ASU Polytechnic School; Christian Fortunato, ASU Research Enterprise.</i>
Santan Hall Room 135	9:15 AM – 10:00 AM	<b>A Rear-View Mirror Look at UAS Industry Progress and a View of the Road Ahead;</b> <i>Michael Toscano, Former President and CEO for AUVSI</i>
Santan Hall Room 135	10:00 AM – 10:15 AM	<b>Refreshments On-Site</b>
Santan Hall Room 135	10:15 AM – 11:00 AM	<b>Evolving UAS Technology – What’s Next for Arizona?</b> <i>Brian Sherman, Arizona Commerce Authority</i>
Lawn Next to Parking Lot 10	11:15 AM – 12:15 PM	<b>Live Demo</b> <i>North Carolina Department of Transportation</i>

# EVENT SPONSORS





# about THE SPONSORS



## ASU Fulton Schools of Engineering CHIEF EVENT PARTNER

ASU has been educating engineers for Arizona and the world for more than 60 years. Today, with over 20,000 students, we are building on a rich history. Our curriculum and programs have evolved to meet a rapidly changing technology landscape. Our research is at the forefront of innovation and we continue to foster close ties to industry and government.



## ASU Research Enterprise CHIEF EVENT PARTNER

ASURE believes there is no greater honor than service to our nation and its people. At ASURE, we serve by shepherding cutting-edge research from early-stage development to appropriate applications. As ASU's applied research and development arm, ASURE specializes in delivering programs, processes and strategies to rapidly drive ASU innovation into fully executed solutions.



## NCDOT SUPPORTING EVENT SPONSOR

NCDOT is a global leader in providing innovative transportation solutions. Connecting people, products and places safely and efficiently with customer focus, accountability and environmental sensitivity to enhance the economy and vitality of North Carolina.



## AQST Space Systems EVENT SPONSOR

AQST Space Systems provides innovative proprietary space systems technologies and disruptive business solutions for the global market through Space Commercialization, R&D, Telecommunications, IoT, Data Science and Additive Manufacturing. They service the United States, Europe and Australia markets.



## Silicon Forest Electronics EVENT SPONSOR

Silicon Forest Electronics is a custom electronics manufacturing service that supports global customers who have mission-critical needs in aerospace, unmanned systems, medical, defense, instrumentation and industrial, mining, oil and gas.



SpencerFane®

## Spencer Fane EVENT SPONSOR

Spencer Fane attorneys serve clients across the United States in a variety of practice areas. Our attorneys are sought out for their business knowledge, practical experience and ability to develop creative solutions to complicated legal problems. Using an interdisciplinary approach, we develop teams of attorneys to serve our clients for the life of their business.

# PROGRAM **SPEAKERS**





### **Ann McKenna**

**ASU POLYTECHNIC SCHOOL  
DIRECTOR AND PROFESSOR**

Dr. McKenna is a Professor of Engineering and Director of the Polytechnic School in the Ira A. Fulton Schools of Engineering at Arizona State University (ASU). She also serves as the Vice Dean for Strategic Advancement for the Fulton Schools.



### **Arnaldo Soto**

**CEO, AQST SPACE SYSTEMS**

Arnaldo Soto is the CEO of AQST Space Systems Group, Founder of the America's Aerospace Summit and has been a panelist, speaker and advocate for the development of the Aerospace industry in Puerto Rico.



### **Brian Sherman**

**EVP, BUSINESS DEVELOPMENT,  
ARIZONA COMMERCE AUTHORITY**

Brian Sherman has more than a decade of professional work in creating and building a support system for Arizona technology entrepreneurs. His work is focused on technology-based economic development, including entrepreneurship, early stage capital formation, technology commercialization, and innovation in public policy and finance.



### **Christian "Chris" Fortunato**

**ENGINEERING MANAGER  
ASU RESEARCH ENTERPRISE**

Chris Fortunato has more than 20 years of experience leading cross-discipline engineering teams in the design, development, testing and implementation of software and hardware for national security programs. He is a U.S. Army veteran.



### **Darshan Divakaran**

**UAS PROGRAM ENGINEER,  
NORTH CAROLINA DEPARTMENT  
OF TRANSPORTATION**

Darshan Divakaran is an aviation expert with expertise in manned & unmanned flight operations, flight safety, remote sensing, geospatial analysis and project management. He is the subject matter expert for the North Carolina Governor's office, legislature and public safety agencies.



### **Don Wood**

**INSTRUCTOR  
ASU POLYTECHNIC SCHOOL**

Don Wood is an unmanned aircraft systems instructor with a background in the US Marine Corps as an F/A-18 Avionics Technician. He served as the president of the ASU Air Devils for several years, during which the club finished in the upper quartile of competitions with 100+ competing teams.



### **Glenn Williamson**

**HONORARY CONSUL  
OF CANADA FOR ARIZONA**

Glenn Williamson has 30+ years of executive-level experience in leading companies from concept to maturity. Highlights of Mr. Williamson's expertise include accessing the Canadian capital markets for global investments and increasing bilateral trade.



### **Jeremy Grogan**

**COMPLEX WAIVER TEAM LEAD  
AFS-800 SAFETY STANDARDS  
FEDERAL AVIATION ADMINISTRATION**

Jeremy Grogan leads the Complex part 107 Waiver Team located within the Safety Standards General and Commercial Aviation Policy Branch of the FAA. Mr. Grogan oversees a diverse group of subject matter experts who evaluate and adjudicate part 107 waiver applications.



### **John Wolcott**

**FOUNDER / PRESIDENT  
INDUSTRIAL AEROBOTICS**

John Wolcott has 20+ years of experience in aviation and executive service as a Pilot and UAS Engineer. He spent 20 years in Information Technology and its application to manned and unmanned aviation use cases. In his current position, he manages the strategic direction and overall operations for Industrial Aerobotics.



**John Giles**  
**MAYOR, CITY OF MESA**

John Giles was elected the 40th Mayor of Mesa in August 2014 and is committed to taking Mesa to the next level with his NextMesa vision. Mayor Giles has overseen a growing economy that added thousands of new jobs, new employers like Apple, Textron Aviation and Dexcom and over \$1.5 billion in new capital investment.



**Lorie Grabham**  
**SENIOR SYSTEMS ANALYST & BUSINESS INTELLIGENCE AMERICAN AIRLINES**

Lorie Grabham has 20+ years of experience in aviation leadership and the successful delivery of business intelligence solutions. Her experience includes corporate mergers; data migration strategies; technical analysis, impact and resolution; aviation safety and driving unmanned engineering innovation in the aviation industry.



**Mark Goldstein**  
**PRESIDENT INTERNATIONAL RESEARCH CENTER**

Mark Goldstein is President of International Research Center providing consulting, custom research, and strategic support for business, legal and public policy clients across a variety of disciplines and arenas since 1992 following an engineering and engineering management career.



**Matan Yemini**  
**GENERAL MANAGER - USA AIROBOTICS**

Matan serves as Airobotics' General Manager for the American Region. His previous roles in the company included VP Operations where he managed supply chain, manufacturing and customer support, and operations manager where he managed tech teams including training, installation and maintenance.



**Michael Toscano**  
**STRATEGIC ADVISOR FORMER PRESIDENT & CEO OF AUVSI**

Michael Toscano was the President and CEO for the Association for Unmanned Vehicle Systems International (AUVSI) for seven years. Currently, Mr. Toscano acts as a strategic advisor for a wide variety of clients involved in the unmanned systems community, which include FAA, NASA, the State of New York, and other private companies.



**Dr. Sarah Nilsson**  
**ESQUIRE**

Sarah Nilsson holds an ATP in multi and single engine fixed-wing airplanes, a gold seal CFI, CFII, MEI, and a small UAS pilot certificate. She is the founder and managing attorney of Nilsson Law, PLLC and is a full-time faculty member at Embry-Riddle Aeronautical University.



**Stephen Fleming**  
**VP, STRATEGIC BUSINESS INITIATIVES UNIVERSITY OF ARIZONA**

Stephen Fleming is an accomplished professional with an impressive background in the "alternative space" industry; investment in private aerospace companies and the founding of Space Angels Network. He also has experience as an optical physicist, laser fabricator, software developer and field engineer.



**Tye Payne**  
**UNMANNED AERIAL SYSTEMS PILOT/OPERATOR, LONE STAR UAS CENTER OF EXCELLENCE & INNOVATION**

Tye Payne oversees the proper preventative maintenance and care of the aircraft used by LSUASC and acts as Pilot-In-Command (PIC) of the aircraft, conducting flights in both manual and autonomous modes. He ensures proper gathering and distribution of weather data for each flight as well as risk assessment, analysis, and mitigation for each flight. He is also an Army Veteran.



**Wenlong Zhang**  
**ASSISTANT PROFESSOR ASU POLYTECHNIC SCHOOL**

Wenlong Zhang is currently an Assistant Professor in the Polytechnic School at the Ira A. Fulton Schools of Engineering, Arizona State University. His research interests lie in the design, modeling, and control of cyber-physical systems, with applications to healthcare, robotics, and manufacturing.

# exhibitors



## Aerospace Arizona Association

**AEROSPACEARIZONA.ORG**  
**(602) 265-9357**

Aerospace Arizona (Association) promotes and advances the aerospace industry throughout the State of Arizona. The organization represents its members and informs them on legislative, regulatory, safety and technical issues. It also educates federal, state, county, and local elected officials and their staff, as well as other key stakeholders, on the importance and necessity of policies that facilitate a thriving aerospace industry in Arizona. Aerospace Arizona wants the world to know the State of Arizona is the premier destination for aerospace innovators.



## AUVSI Saguaro Chapter

**AUVSI.ORG**

The Association for Unmanned Vehicle Systems International (AUVSI), the world's largest nonprofit organization dedicated to the advancement of unmanned systems and robotics, represents corporations and professionals from more than 60 countries involved in industry, government and academia. AUVSI members work in the defense, civil and commercial markets.



## O-Chute

**O-CHUTE.COM**

An effective SUAV parachute system that works in low altitude, designed by Pete Lauderdale, Owner and Founder of O-Chute.



## Silicon Forest Electronics

**SILICONFORESTELECTRONICS.COM**

Silicon Forest Electronics is a custom electronics manufacturing service that supports global customers who have mission-critical needs in aerospace, unmanned systems, medical, defense, instrumentation and industrial, mining, oil and gas.



## U.S. Commercial Service

**EXPORT.GOV**

The U.S. Commercial Service is the trade promotion arm of the U.S. Department of Commerce's International Trade Administration. U.S. Commercial Service trade professionals in over 100 U.S. cities and in more than 75 countries help U.S. companies get started in exporting or increase sales to new global markets.



## North Carolina Department of Transportation

**NCDOT.ORG**

NCDOT is a global leader in providing innovative transportation solutions. Connecting people, products and places safely and efficiently with customer focus, accountability and environmental sensitivity to enhance the economy and vitality of North Carolina.



# live DEMONSTRATORS



## **Darshan Divakaran**

**UAS PROGRAM ENGINEER,  
NORTH CAROLINA DEPARTMENT  
OF TRANSPORTATION**

Darshan Divakaran is an aviation expert with expertise in manned & unmanned flight operations, flight safety, remote sensing, geospatial analysis and project management. He is the subject matter expert for the North Carolina Governor's office, legislature and public safety agencies.



## **Jeremy Strafford**

**IDEAL BLASTING**

Jeremy has worked within the explosives industry and EOD/HDS communities for 15+ years. As a member of the ISEE, USBTA and IABTI, Jeremy specializes in training as it relates to the newest tools, equipment, and technology available to the explosive industry and Bomb Technicians. His current focus is on utilizing UAV's in the explosive industry.



## **Riley Beaman**

**NORTH CAROLINA PUBLIC SAFETY  
DRONE ACADEMY**

Riley Beaman oversees the Montgomery Community College Public Safety and Emergency Services Department. He is responsible for forming the NC Public Safety Drone Academy in which 20+ classes focus on teaching emergency responders how to handle natural disasters, active shooters, flight, search and rescue operations.



## **Sargeant John Collins**

**NORTH CAROLINA  
STATE HIGHWAY PATROL  
COLLISION RECONSTRUCTION UNIT**

Sergeant Collins acts as the supervisor for the Greenville Office of the Collision Reconstruction Unit. He is also a Crash Data Retrieval System instructor and educates fellow troopers and outside agencies on how to download crash data from vehicles. Sergeant Collins is a certified FAA Part 107 Remote Pilot of Small Unmanned Aircraft Systems (sUAS) and uses the technology for crash investigations.



## **Thomas Walls**

**NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION**

Thomas Walls is the UAS Technical Trainer for NCDOT. In his role he works in data processing, flight operations and training. He has been an employee of NCDOT for the past 18 years. Spending 17 years as a Photogrammetrist where he specialized in the data collection and processing for the state, LIDAR processing and the units CADD Coordinator. He is also an Army Veteran.



## **Trooper Brian Leventhal**

**NORTH CAROLINA  
STATE HIGHWAY PATROL  
COLLISION RECONSTRUCTION UNIT**

Trooper Brian Leventhal is a Collision Reconstructionist who specializes in the implementation of UAS as a tool for investigating crashes. Brian was among the first in his Unit to receive his Part 107 Remote Pilot license and has since become one of the Patrol's frequently called upon drone operators, as well as a presenter and panelist representing the use of Unmanned Aerial Systems in Government entities.

Contact us  
for scheduling  
(602) 265-9357

# Come Test With Us

At the UAS Center  
for Innovation

- ▶ 30 Miles East of Tucson
- ▶ Protected Airspace
- ▶ Aviation Hangars for Lease
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- ▶ Favorable Cost of Doing Business
- ▶ Easy Access From I-10



Leading the Aerospace Industry in Arizona

*Aerospace Arizona Association is founded and operated by the Arizona Regional Economic Development Foundation.*

Benson Municipal Airport  
2200 W. Aviation Dr.  
Benson, AZ 85602

[info@aerospacearizona.org](mailto:info@aerospacearizona.org)  
[www.aerospacearizona.org](http://www.aerospacearizona.org)





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