

UAA CONNECT

THE OFFICIAL PUBLICATION OF THE UNIVERSITY AVIATION ASSOCIATION

OCTOBER 2023

President's Welcome



Welcome to the UAA Collegiate Aviation Education Conference and Expo, the home of the world's first airline and the birthplace of worldwide commercial aviation!

As I continue my first year as President of UAA's Board of Trustees, I am humbled and greatly appreciate the support we have received from our collegiate members, industry partners, students, and the many volunteers that have helped to make this organization a success. Because of the dedication and hard work of everyone involved, we have a phenomenal conference planned for you this year.

I am grateful to all of you for the proposals you submitted. We had so many great presentations that we ran out of meeting slots. However, thanks to some creative scheduling moves, I am happy to say that we could accommodate more speakers and presenters than we have done in the past. The conference includes many opportunities to collaborate, network, meet new people, and reconnect with friends. Additionally, we moved the awards banquet to Thursday evening, which would give us the time we need to celebrate our members' accomplishments. With your help and engagement, we are looking at another year of record-setting activities.

A special thank you to the UAA staff and the Program Planning Committee for all their work in putting together this conference. Their tireless efforts and sleepless nights have resulted in a phenomenal program this year. I also want to thank our sponsors, those that contributed to our scholarships, our fabulous exhibitors, and those that contributed to the silent auction. Your contributions make it possible for us to put together this conference and support the work of the faculty and students.

I will also reiterate the goals I set in January and ask for your support and continued engagement with UAA. I believe we can continue pushing the boundaries and ensuring a sustainable future for our industry. If there is a way the Board of Trustees can support these endeavors, please let us know.

I look forward to meeting and working with all of you this week as we continue this journey to support the industry and the next generation of professionals.

Chaminda Prelis, Ph.D.

President, University Aviation Association

Student Research Poster Winners

The research poster competition provides both undergraduate & graduate students the opportunity to publish and share their research findings at the conference. Attendees voted throughout the conference to determine winners. Winners were announced at the 2023 UAA Collegiate Aviation Education Conference and Expo.

UNDERGRADUATE CATEGORY

First place - \$500

Mental Health In Aviation: A Study of Aviation Students on Their Perceptions of the Federal Aviation Administration's Rules Governing Mental Health
Laila Stein - Western Michigan University

Second place - \$250

Decoding Politics in International Aviation: Influencing Commercial Aviation Growth Across the African Continent
Prakash Limbu - ERAU - Daytona Beach

Third place - \$100

Immersive Simulation Technologies in EMU's Aviation Program
Ibrahim Aldhaibani & Haven Noll - Eastern Michigan University

GRADUATE CATEGORY

First place - \$500

Emerging Psychological Factors & Student Pilots Resilience During the Pandemic
Xinyu Lu - Purdue University

Second place - \$250

Machine Learning - Hail Awareness Spatial Analysis Toolkit (HASAT)
Haoruo Fu - Purdue University

Third place - \$100

The Nextgen Cybersecurity for U.S. Airports
Mosladdin Mohammad Shueb - Eastern Michigan University

To view the student research contest winners posters [CLICK HERE](#).



Another Successful UAA Conference for the Books



UAA's Annual Collegiate Aviation Education Conference was a great success. The conference was held September 27-29, at the Hilton Bayfront in St. Petersburg, Florida. The city that is the home to the first commercial airline flight in the country did not disappoint. It was a perfect match for our education conference.

Before the conference officially began, UAA was pleased to host the Association of College Training Institutions (ACTI) meeting, as well as a meeting of the FAA Center of Excellence for Technical Training and Human Performance, the Federal Aviation Administration's research consortium for air traffic controllers, safety inspectors, engineers, technicians, and pilots.

The UAA Board of Trustees also met to confirm the election results for the 2024 Trustees. A review of the solid financial management and growth of the association allowed for plans to increase managed scholarships for other aviation associations, double scholarships available through UAA, double research poster awards, and increase faculty support to attend both the annual education conference and our Aviation Policy Seminar in Washington, D.C.

Contributing to a hallmark financial year was the highlight of the week -- the conference itself. Hitting record numbers of attendees, exhibitors, and sponsor support. More than 400 collegiate aviation educators filled the halls and meeting rooms of the Hilton hotel to hear world-class speakers and research presentations, and participate in leadership sessions and workshops.

Among the well-received offerings were the expanded three days of keynote speakers. Contributing their time and unique perspectives on aviation

were representatives from two huge corporations headquartered in Florida: Jordan Wareham, Senior Director Operational Safety Spirit Airlines, and Savanthi Syth, Managing Director of Global Airlines & Advanced Air Mobility at Raymond James & Associates. They were joined by Steve Swauger, Aviation Human Factors Consultant with Human Factors Excellence in Aviation. The speakers set the tone for an excellent and informative conference.

UAA Safety Infoshare saw standing room only in its meeting space. Workshops on publishing and reviewing academic articles and safety management systems for both the general collegiate environment and unmanned aerial systems provided valuable information to UAA members. More than 50 education sessions gave thorough and captivating talks on issues concerning mental health, diversity and equity, aviation maintenance, and training performance. Along the way there were an additional ten professional paper presentations and two research roundtables for fifteen proposals.

Additionally, various UAA committees met throughout the conference to address a broad range of issues and concerns affecting collegiate aviation. Many first time attendees took advantage of the opportunity to audit committee meetings, become committee members, and begin making a difference in UAA.

Networking events were peppered throughout the conference to aide attendees in making every minute of the conference productive. A record number of 228 attendees squeezed into the Albert Whitted Field terminal for the Welcome to St. Petersburg reception hosted by Alsim, Cirrus, Diamond, Piper, Textron, and Vulcanair; most of whom turned the tarmac into an incredibly informative tour of the newest generation of collegiate aircraft.



The conference once again closed with a wonderful awards banquet. Five Awards of Excellence were presented and twenty-five thousand dollars in scholarships were awarded. (Please see the next page in this newsletter for winners). Awards of note were the first President's Award given to a couple for their volunteer service and commitment to UAA -- presented to Scott Keirl and Samuel Pavel, PhD, of Central Washington University.

Our annual conference could not occur without the generous support of our conference sponsors as well as the continuing support of UAA's Industry Members. They not only filled the exhibit hall at our conference and overflowed into the foyers, they contribute tens of thousands of dollars to provide refreshment breaks, meals, and banquet services. They also provide funding and support for our education and outreach efforts throughout the year. Please take an opportunity to convey our thanks; we could not continue to operate without their continued participation and support and are truly grateful that they are with us to help make every event a success.

Next year the 77th Annual Collegiate Aviation Education Conference & Expo will return to Memphis. We look forward to a conference format with more opportunity for UAA members to present their work and share best practices with their colleagues -- assisting colleges and universities internationally with producing the best aviation professionals in the world. Mark your calendars for September 25-27 and plan now to attend. On behalf of myself and the Board, I'd like to thank you for being such valued members of the academic aviation community.

Awards of Excellence Recipients

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Dr. Kristy Kiernan

**Frank E. Sorenson
Award**



Capt. John Cox

**John K. Lauber
Safety Award**



**Scott Keirl &
Dr. Samuel Pavel**

**UAA President's
Award**



Dr. Ryan Wallace

**V. L. Laursen
Award**



Martin Rottler

**W.W. Estridge
Award**

Scholarship Awards Recipients

**Eugene S. Kropf
Scholarships - \$500 each**



Riley Snell

**Western Michigan
University**



Connor Wolfe

**Southern Utah
University**

**Devore Freedom of Flight
Scholarships - \$1,000 each**



Breanna Booth

**Saint Louis
University**



Jonathan Corey

**University of
Nebraska Omaha**

**Joseph Frasca Excellence in Aviation
Scholarships - \$2,000 each**



Shaylina Carter

**Aims Community
College**



Cade Plunk

**University of
Memphis**

**Paul and Patricia Whelan
Scholarships - \$2,000 each**



Choco Santiago

**California Baptist
University**



Brandon Weide

**Embry - Riddle
Aeronautical Univ.**

**UAA President's Choice
Awards - \$2,000 each**



Brandon Carroll

**University of
Memphis**



Quinn Dooley

**Embry - Riddle
Aeronautical Univ.**



Carson Jewett

Liberty University



Kayla Poole

**University of
Oklahoma**

Speakers of Note



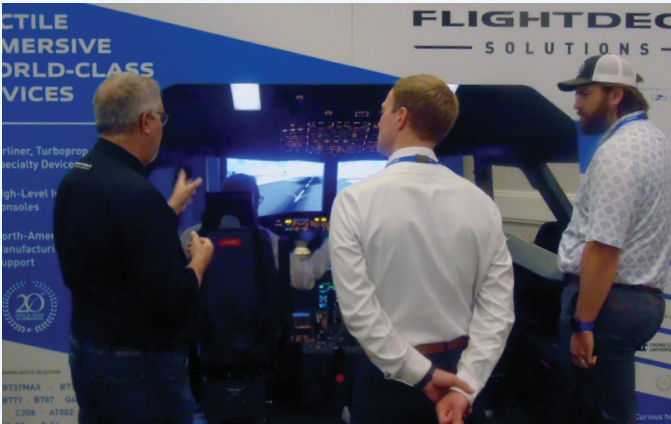
Welcome Reception



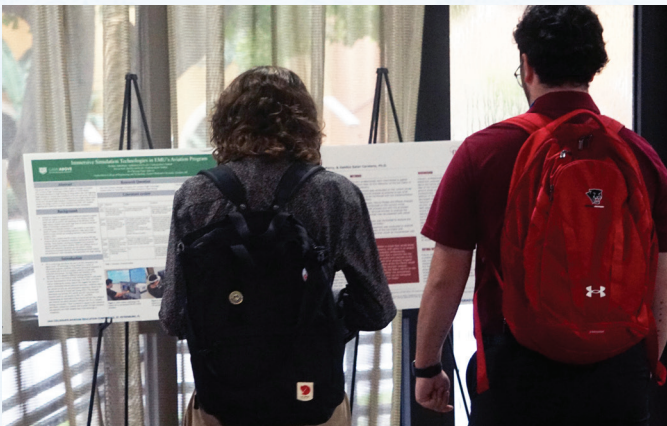
Awards of Excellence Pre-Reception & Dinner



Exhibit Hall



UAA Collegiate Aviation Education Conference



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Collegiate Aviation Guide

The CAG is distributed directly to high schools, parents, Guidance Councilor's, and college students.

Collegiate Aviation Scholarship Catalog

The CASC is distributed directly to colleges, instructors, collegiate aviation professionals, and college students.

Commitment deadline is October 30th, AND the final print quality PDF is due November 13, 2023.

Contact Laura Swanson to reserve your space. (901)563-0505 • hello@uaa.aero

Bonus: Advertise in the 2024 CAG and CASC for One Price!

Advertisement Sizes* (Check Option Amount)

Collegiate Aviation Guide

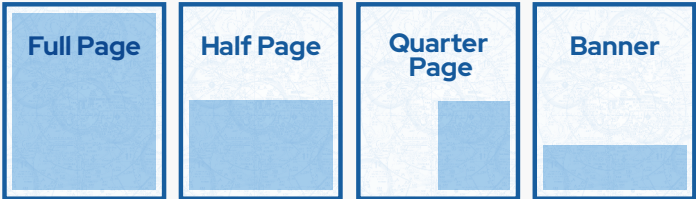
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CAG and CASC 20% OFF

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Collegiate Aviation Scholarship Catalog

- Member - Full Page (8.5" x 11.00") ☐ \$800
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Election Results - Welcome 2024 Newest Board Members

Thank you in advance for taking time to think about the leadership opportunities for the future of University Aviation Association. New trustees will join the Board of Trustees January 1, 2024. CONGRATULATIONS to the newly Elected Board Members!

Secretary (2-year term)



Tyler Tenbrink - Piedmont Airlines

Tyler Tenbrink's journey into the airline industry began while he was still in school, as he joined Air Midwest Airlines as a Customer Service agent in 2005. After graduating, he continued to work for the airlines, demonstrating his dedication and passion for the aviation field. Over the past 18 years, he held various positions in Flight Operations, Safety, Station Management, Avionics, and Talent Acquisition, gaining valuable experience and expertise. Since 2015, Tyler has been an integral part of Piedmont Airlines, where he started as the Manager of Safety Programs. His exceptional skills and contributions led him to be appointed the Manager of Flight Operations Recruitment. In 2019 he achieved another milestone in his career by being promoted to the position of Director of Talent Acquisition, responsible for overseeing all recruiting efforts at Piedmont Airlines. Apart from his aviation career, Tyler is a multi-

talented individual with impressive skills. He is actively involved in emergency response and serves as a Firefighter, Emergency Medical Responder, and Emergency Veterinary Technician. Tyler resides with his husband in Chester, MD, and shares his life with three adorable dogs.

Treasurer (2-year term)



Ryan Wallace, EdD - Embry-Riddle Aeronautical University

Dr. Ryan Wallace is an Associate Professor at Embry-Riddle Aeronautical University. He holds an Ed.D. in Applied Education Studies (Aviation option), a M.S. in Aviation, and a B.S. in Aeronautics. His research focuses on UAS safety, security, human factors, and public policy. Dr. Wallace serves as the PI for federal grants valued at more than \$2.1 million. He has facilitated professional training seminars for multiple federal agencies in the areas of UAS safety, operations, and counter-UAS topics. He further serves as a representative on the FAA's Drone Safety Team (DST). Dr. Wallace previously chaired the University Aviation Association's UAS Committee, where he led a collaborative effort to publish the UAS Pilot's Code, a compendium of procedures and best practices to improve UAS operational safety. He is also a former Editor of the Collegiate Aviation Review International, the official scholarly journal of the

University Aviation Association.

Member at Large



Michael Gaffney - Southeastern Oklahoma State University

Michael Gaffney is the Director of the Aviation Sciences Institute at AABI Accredited Southeastern Oklahoma State University in Durant, Oklahoma and serves as the Industry/Educator Forum Co-Chair at AABI. He has served as a flight training unit leader at universities, academies, and institutes in the US, Australia, India, and Europe and consulted for numerous international airlines providing operational, safety, and process advisory services. He was recognized as the "National Flight Instructor of the Year" by the Federal Aviation Administration in 2007 and presented the 2007 "Flight Training Excellence Award" by the National Aviation Transportation Association (NATA). He holds an MBA from the University of Bridgeport and a B.S. in Aeronautics with a specialty in Aircraft Maintenance Management from Parks College of Aeronautics at St. Louis University.

Election Results - Welcome 2024 Newest Board Members (Continued)

Thank you in advance for taking time to think about the leadership opportunities for the future of University Aviation Association. New trustees will join the Board of Trustees January 1, 2024. CONGRATULATIONS to the newly Elected Board Members!

Educator Trustees



Amanda Briggs - Parkland College

Amanda Briggs is the UAS Program Director and Assistant Chief Flight Instructor at Parkland College, where she has taught both manned and unmanned aviation courses. In her current role, she is also a check airman and flight instructor. During her time at Parkland College, she has also developed and implemented the unmanned aviation program. She has served as both PI and Co-PI on several National Science Foundation grants focused on UAS curriculum and program development. Briggs has a bachelor's degree in engineering from the University of Illinois and is type rated in the Falcon 20 and Lear 45. She has worked in several areas of aviation including aerial photography along with corporate and charter operations.



Yi Gao, PhD - Purdue University

Dr. Yi Gao is an Associate Professor in the School of Aviation and Transportation Technology at Purdue University. Currently serving as the Editor-in-Chief for Collegiate Aviation Review International and Chairperson for the UAA Publication Committee, he is deeply committed to advancing collegiate aviation research and education. Dr. Gao's research expertise in air transportation is well-recognized. He frequently publishes in top academic journals, including Safety Science, Journal of Transport Geography, Journal of Air Transport Management, and Transportation Research Record, and actively contributes to over 20 peer-reviewed academic journals as an editorial board member or reviewer. As the Principal Investigator, Dr. Gao and his research group at Purdue University have been awarded multiple federally sponsored projects, reflecting recognition by federal agencies and aviation industry practitioners of Dr. Gao's scholarly research. Before joining Purdue University as a faculty member in 2018, Dr. Gao was the Aviation Course Director and a Senior Lecturer at Swinburne University of Technology (Melbourne, Australia).

practitioners of Dr. Gao's scholarly research. Before joining Purdue University as a faculty member in 2018, Dr. Gao was the Aviation Course Director and a Senior Lecturer at Swinburne University of Technology (Melbourne, Australia).

Industry Trustee



Amy Parish - UFA, Inc

Amy Parish is UFA's Vice President of North American Business, delivering critical training systems to customers to achieve Air Traffic and Airside Training goals. As a Navy Veteran turned CTI graduate and Valedictorian of Daniel Webster College in 2012, Amy joined UFA and deviated from the standard path of becoming an FAA controller by growing from an entry level ATC Specialist to Project Manager, Program Manager, Director, and Vice President. 12 years later, you can still find Amy at UFA supporting product development, customer installations, training activities, and mentoring the next generation of aviation enthusiasts. Most notably, Amy's work can be seen in projects including new initiatives started by the FAA during the pandemic, replacement of critical simulator systems in Canada, and UFA's first Airside Driving delivery in the Middle East. As a passion project, Amy has supported aviation outreach since

her college days with the creation of a Student Air Traffic Controller Association (SATCA) as well as bringing ATC simulation to various STEM and aviation events throughout the United States.



Megan Sollender - Republic Airlines

Megan Sollender is the manager of campus recruitment at Republic Airways. She manages a team of 6 campus recruiters responsible for sharing pathway opportunities in aviation with flight, maintenance and corporate students. She has a Bachelors and Masters of Science degrees in Aviation and Aerospace Management from Purdue University. She has worked in Talent Acquisition at Republic Airways for the past 5 years.

Welcome New UAA Members

ACADEMIC PROFESSIONAL

Romulo Gallegos
ERAU - Prescott

Stephen Swauger
Human Factors Excellence in Aviation

INSTITUTION

Jessup University
Loo Ng, Brad Wagner

University of Houston - Victoria
Tim Michalski

STUDENT

Cameron Baun
Orangewood Christian School

Nathaniel Carpio
Liberty University

Caralyn Deming
Western Michigan University

Timothy McLaughlin
Marywood University

Saira Williams
Worthington Christian School

Michael Yo Yo
San Jose State University



UNIVERSITY AVIATION ASSOCIATION AVIATION POLICY SEMINAR

January 3-5, 2024 | Washington, DC

UAA Aviation Policy Seminar Scholarships Opens: November 1, 2023

Amount(s) Awarded

Two scholarships will be awarded, \$1,500 plus registration to one graduate and one undergraduate student.

Scholarship Criteria

- Open to undergraduate students in a collegiate aviation program entering Junior or Senior levels, or **students currently in a graduate program** at a collegiate aviation program.
- Must be enrolled at a University Aviation Association member institution in an aviation or aerospace-related major.
- A minimum of 3.0 overall GPA on a 4.0 GPA scale.
- Extracurricular involvement/community involvement may be considered.
- One recommendation letter from a faculty member from a UAA member institution supporting the candidate's application for this scholarship.
- The completed application must be accompanied by a 250-750 word typed, double-spaced paper on "How government policy impacts aviation and aerospace initiatives and developments". Please be direct and focused on the topic and include any appropriate research and references.

UAA 77 COLLEGIATE AVIATION EDUCATION CONFERENCE

➔ PASSENGER TICKET



WHERE AVIATION & EDUCATION MEET

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September 25-27, 2024

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Aims Community College's Mobile Aviation Lab Launches This Fall



Colorado students and community members can get a taste of what it's like to work in the aviation industry with Aims new mobile aviation lab.

The lab is a trailer that can travel to schools and events, allowing people to experience the many different career opportunities in aviation. This classroom on wheels includes virtual reality flight simulators, an air traffic control simulation, drones, STEM-related activities, and more. It will make one of its first appearances at the upcoming [Girls in Aviation Day](#) at Aims.

Last fall, [Aims received a grant](#) from the Colorado Department of Transportation Division of Aeronautics to build the mobile aviation lab to promote careers in aviation and aerospace among Colorado K-12 students. The state developed the Colorado Aviation Education Grant to increase workforce development and support the growth in the industry.

Sara Bauermeister, a certified flight instructor at Aims, was part of the team that developed the mobile aviation lab. "I'm excited that the State of Colorado funded this so that we can go to underrepresented and underserved communities, because those are the ones who don't get told about aviation."

In addition to full-time faculty and staff, a group of work-study students helped build and develop the mobile aviation lab. "Lots of our students go into flight instruction, so it's a great opportunity for them," Bauermeister said. "Who better to get people excited than those just starting their careers in it?"

One of the students involved in the project is Matthew Rivera. "I grew up in a pretty low-income area and really had no understanding about planes until I joined the military," he said. He sees the aviation lab as a way to connect more people to the world of aviation. "I wish that I would've had that as a kid."

Rivera believes providing these hands-on experiences is an invaluable tool to inspire the next generation of aviation professionals. "I can tell kids that they could be a pilot, but providing a real-world application of flying and what it'd feel like to look around into a cockpit, that for a kid I think it brings into reality." The mobile aviation lab had a soft launch and already the team operating it has received incredible feedback. "It's been so much fun," Rivera said. "Some kids are shy and it just took them completely out of that shell. It just reaches out to people you wouldn't think would be interested."

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Signing Cements MTSU Partnership with Southwest Airlines Destination 225° Pilot Pathways Program



Middle Tennessee State University officials and Southwest Airlines representatives marked the official takeoff of the university's status as part of the Southwest Destination 225° Pilot Pathways program with a signing ceremony on Wednesday, Sept. 6.

With MTSU Aerospace students in attendance, officials, including university President Sidney A. McPhee, signed the ceremonial documents in the State Farm Lecture Hall in the MTSU Business and Aerospace Building. The event was followed by an informational session for interested students presented by Southwest pilots representing the Destination 225° program.

On a compass rose, 225° is the southwest heading, and the Destination 225° program provides several pathways designed to meet future aviators where they are at their current experience level and create opportunities to take them to the right seat of a Southwest aircraft.

With 900 professional flight majors in fall 2022, MTSU aerospace students have access to a pathway that leads to becoming competitively qualified for a commercial pilot career at Southwest. The Destination 225° program includes pathways for pilots who are just starting to fly, those working on a university degree and those already building time toward their Airline Transport Pilot certificate.

"MTSU's inclusion in the Destination 225° program has elevated our Aerospace program to even greater heights – or should I say, altitude," said McPhee, noting that MTSU is among 12 of the nation's top collegiate flight training programs.

McPhee thanked Provost Mark Byrnes, College of Basic and Applied Sciences Dean Greg Van Patten and Chair Chaminda Prelis "for their strong and sustained leadership."

Acknowledging "I'm a Blue Raider," alumnus and Southwest First Officer Chris Collins, who is a Destination 225° lead mentor and will work directly with MTSU Aerospace, said the university "was the bedrock – the foundation to my career all started here. ... the inspiration that was given to me by people while I was here drove me to this place (Southwest)."

Calling it "another momentous event in the history of Aerospace," Prelis said he's "excited about the possibilities we have opened in this new partnership with Southwest Airlines. Destination 225° paves an avenue for our students to consider on their journey to becoming professionals in support of the aerospace industry."

MTSU joins current Destination 225° university partners Angelo State University, Arizona State University, Auburn University, Baylor University, Louisiana Tech University, Kent State University, Southeastern Oklahoma State University, Texas Southern University, the University of Nebraska at Omaha and The University of Oklahoma.



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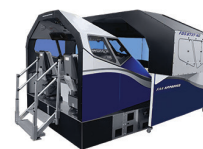
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FAA Extends Remote ID Enforcement Date Six Months

Drone pilots who are unable to comply with the broadcast requirement of the Remote ID Rule will now have until March 16, 2024, to equip their aircraft. After that date, operators could face fines and suspension or revocation of pilot certificates.

In making this decision, the FAA recognizes the unanticipated issues that some operators are experiencing finding some remote identification broadcast modules.

Drone pilots can meet this deadline by purchasing a standard Remote ID equipped drone from a manufacturer or purchasing a Remote ID broadcast module which can be affixed to existing drones that do not have Remote ID equipment.

Remote ID acts like a digital license plate and will help the FAA, law enforcement, and other federal agencies find the control station when a drone appears to be flying in an unsafe manner or where it is not allowed to fly.

Researchers Plan Drone Study of 'Green' Stormwater Solutions



Embry-Riddle Aeronautical University researchers will leverage drones to help assess eco-friendly stormwater solutions in the City of Cape Canaveral, Florida, as part of a Stetson University project intended to reduce flooding and improve water quality.

The project is critical to the future of the imperiled Indian River Lagoon, one of North America's most biodiverse estuaries, said Dan Macchiarella, a professor of Aeronautical Science at Embry-Riddle.

"Under this grant, the city will develop green infrastructure to absorb stormwater runoff and percolate it through the ground so that when it

comes out the other end, it won't harm the environment," Macchiarella explained. "The innovations that the Stetson team puts in place could serve as a model for other cities to help them manage runoff in a way that protects the environment, is attractive and also gives people a place to enjoy recreation."

The research-based pilot project, directed by Stetson's Institute for Water and Environmental Resilience (IWER), this week received a \$1 million Stage 2 Civic Innovation Challenge (CIVIC) award from the National Science Foundation, in partnership with the U.S. Department of Energy, U.S. Department of Homeland Security and the U.S. Department of Agriculture.

In addition to Embry-Riddle, the project, headed by principal investigator Jason Evans, IWER's executive director and associate professor of Environmental Science at Stetson, involves the East Central Florida Regional Planning Council, East Central Florida Regional Planning Council, Florida Sea Grant, Cape Canaveral's municipal government and multiple other community partners.



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War Eagle Women Place Third Among Collegiate Teams



The Auburn University School of Aviation's War Eagle Women earned top awards at the 2023 Air Race Classic in June, placing third among collegiate teams and sixth overall.

The 46th annual Air Race Classic was a more than 2,400-mile, cross-country race comprised of 44 women-led teams. The four-day race started in Grand Forks, North Dakota, and ended in Homestead, Florida.

Abby Hagan and Ashley Baldwin, who made up Team 63 for Auburn's War Eagle Women, placed third in the collegiate category and sixth overall. Hagan, who graduated in May, said the race was the perfect way to bring all aspects of her Auburn Aviation education together.

AI Copilot Enhances Human Precision for Safer Aviation

Designed to ensure safer skies, "Air-Guardian" blends human intuition with machine precision, creating a more symbiotic relationship between pilot and aircraft.

Imagine you're in an airplane with two pilots, one human and one computer. Both have their "hands" on the controllers, but they're always looking out for different things. If they're both paying attention to the same thing, the human gets to steer. But if the human gets distracted or misses something, the computer quickly takes over.

Meet the Air-Guardian, a system developed by researchers at the MIT Computer Science and Artificial Intelligence Laboratory (CSAIL). As modern pilots grapple with an onslaught of information from multiple monitors, especially during critical moments, Air-Guardian acts as a proactive copilot; a partnership between human and machine, rooted in understanding attention.

But how does it determine attention, exactly? For humans, it uses eye-tracking,

and for the neural system, it relies on something called "saliency maps," which pinpoint where attention is directed. The maps serve as visual guides highlighting key regions within an image, aiding in grasping and deciphering the behavior of intricate algorithms. Air-Guardian identifies early signs of potential risks through these attention markers, instead of only intervening during safety breaches like traditional autopilot systems.

The broader implications of this system reach beyond aviation. Similar cooperative control mechanisms could one day be used in cars, drones, and a wider spectrum of robotics.

In field tests, both the pilot and the system made decisions based on the same raw images when navigating to the target waypoint. Air-Guardian's success was gauged based on the cumulative rewards earned during flight and shorter path to the waypoint. The guardian reduced the risk level of flights and increased the success rate of navigating to target points.



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- Scholarships available through community partners
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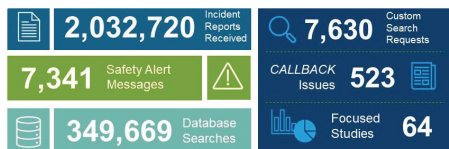
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NASA's Aviation Safety Reporting System (ASRS) - An Effective Tool for Improving Aviation Safety

Did you know that pilots, ATC, dispatchers, cabin crew, maintenance, ground operations, and UAS operators can voluntarily report close calls, hazards, and unintentional rule violations directly to NASA's Aviation Safety Reporting System (ASRS)? In exchange for this valuable safety information, the FAA provides protections against civil penalty and certificate suspension (see AC-0046F).

The ASRS goal of improving aviation safety for all is realized through the guiding principles of voluntary participation, confidential reporting, and non-punitive provisions for those in the aviation community who choose to report and share their lessons-learned with NASA ASRS. Since its inception in 1976, ASRS has received and processed over two million safety reports. ASRS uses these sanitized reports to:

- Provide safety alerts to aviation stakeholders for corrective actions,
- Customize topical database search requests and provide custom [database report sets](#),
- Develop safety [CALLBACK](#) and UAS Safety in Sight newsletters with lessons learned



(April 1976 – August 2023)

Reporting to NASA ASRS

Reporting is simple and begins on the ASRS website. Select the [report form](#) that is relevant to your function. The report should be filed within 10 days of your close call.

To report, use the report form and fill out 3 short sections:

Return Receipt (ID Strip)

NASA asks for you to provide your name, address, and phone number on the Identification Strip (ID Strip) at the top of the form so that we may contact you if additional information is needed to understand the safety concern. The ID Strip and identifying information is then removed and mailed (via USPS) to

you as proof that your report has been processed. NASA does not retain any personal information provided on the ID Strip once it is mailed.

Event and Operational Information

Provide your background information and general event characteristics such as weather, location, and details about your aircraft or UAS. Answer these questions as best you can, but it is ok to leave a question blank if it does not apply.

Event Description – Tell Us Your Story

At the bottom of the form, tell us your story in a free text format. This is a section for explaining what happened in your own words and any safety lessons you may have learned from the experience. Provide enough details to answer: WHO was involved, WHAT was the event, WHERE did it occur, WHEN did it occur, WHY do you think it happened and HOW could this event be prevented in the future? Also, if you are a UAS operator, be sure to include any relevant details about your UAS such as the radio frequency or when you last updated the UAS software.

After You Submit the Report

Every report sent to NASA ASRS is read by Expert Safety Analysts within five working days for hazard identification and triage for distribution to the appropriate aviation stakeholder who can take corrective action.

All reports are de-identified, and names, dates, and other identifying information are removed or generalized to protect the identities of reporters and third parties such as school or company names. NASA processes the reports and codes them with relevant fields so that you can search the ASRS public database for topics of interest and learn from others' experiences.

After the coding is completed, an ID strip is sent back to you. You may need to show the ID Strip as proof of submission, so keep it in a safe location when you receive it in the US Mail.

Learn More About NASA ASRS

ASRS has some resources to help you learn more about this important program:

- View our short eight-minute [video](#)
- Search the ASRS' extensive [online database](#) of aviation safety reports. You can use this as a research tool to explore de-identified reports and lessons learned from safety incidents.
- Subscribe to [CALLBACK](#) and UAS [Safety in Sight](#)

Important benefits are realized by honest and open safety reporting. Common problems, complications, and obscure nuances are revealed over time and shared with the community. In so doing, the aviation community can learn from each other's challenges and mistakes. Commencing with knowledge extracted from de-identified ASRS reports, solutions and preventive measures are developed to mitigate aviation hazards and threats.



By submitting a report to NASA ASRS, you can actively contribute to a system that is collecting data on aerial operations and making the airways safer for all forms of aircraft. If you would like more information about NASA ASRS, go to our website and [Contact Us](#) and a member of the ASRS team will respond.



Aviation Safety Reporting System





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Boeing Career Enhancement Scholarship

Scholarship Sponsor

Boeing Company and Women in Aviation International

Contact

www.nj99.org

Usual Deadline

October

Amount(s) Awarded

Scholarship Awards Vary

Scholarship Criteria

Scholarship is available for a woman who wishes to advance her career in aerospace industry in the fields of engineering, technology development or management. The award is to be used for educational purposes only and may not be applied toward flight hours. Applicants may be full-time or part-time employees currently in the aerospace industry or related field. Students pursuing aviation related degrees that are at the junior level with a 2.5 GPA or higher.

RACCA Scholarship

Scholarship Sponsor

The Regional Air Cargo Carriers Association (RACCA)

Contact

www.raccaonline.org/scholarship

Usual Deadline

October

Amount(s) Awarded

Eight (8) Scholarships Awarded, valued at \$2,500 each will be made to students pursuing a career in aviation as a Pilot or FAA aircraft Mechanic with Airframe and/or Powerplant ratings

Description

The RACCA Aviation Scholarship is established for the purpose of promoting and assisting aviation as a career choice and to make students aware of the opportunities in the Air Cargo Industry.

Scholarship Criteria

Applicants for the RACCA Scholarship must: Be a college student currently enrolled in an accredited aviation program. Be a citizen of the United States; Currently carry a Grade Point Average of at least 3.0 on a 4.0 scale.

Aim High Flight Academy (AHFA) Scholarship

Scholarship Sponsor

Aim High Flight Academy (AHFA)

Contact

www.aimhighflightacademy.com

Usual Deadline

October 15

AHFA scholarship application highlights:

First step is for applicants to establish a WINGS AHFA Application Account to navigate the application process.

There are ten required application components that must be completed.

- Parent/Legal Guardian signed approval form.
- Answer Screening Questions and Acknowledgments
- Write an Essay online. Read instructions on the WINGS AHFA Application Essay Component.
- Submit a Creative Graphic. Read instructions on the WINGS AHFA Application Creative Graphic Component.
- Submit a GPA Transcript. Read the AHFA Eligibility Criteria on the AHFA Website above.
- Submits a Sponsor/Nominator. This sponsor nominator maybe a high school sports coach, teacher, community leader, band director, basically someone in a position that knows the applicant and can provide some observed comments about the applicant's performance. The sponsor may also be a partner org member or representative. The sponsor / nominator may not be a parent or family member.
- Respond to Demographic questions.
- Respond to Family Dynamics questions.
- Respond to an Interest Survey
- Respond to an Activity Sheet.

Our AHFA team is here to guide applicants through the application process. Applicants need to do their best on the application components they can control.

Notifications will be done estimated NLT December 15, 2023.

If the applicant is having difficulty applying, navigating the application software, or has questions please send AHFA an email at: Afrs.ahfa.studentapplications@us.af.mil



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GRANT OPPORTUNITIES

Department of State

Bureau Of Educational and Cultural Affairs

Grant: FY 2024 TechWomen

Deadline: 10/6/2023

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=349617>

Department of Transportation

69A355 Research and Technology

Grant: FY2023 Notice of Funding Opportunity (NOFO)

Deadline: 10/13/2023

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=349904>

Department of Transportation

Airport Improvement Program Discretionary Grants

Grant: FY 2024 Notice of Funding Opportunity: Bipartisan Infrastructure Law (BIL) Airport Terminal Program (ATP) Grants

Deadline: 10/16/2023

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=350202>

National Science Foundation

Grant: Mathematical Sciences Postdoctoral Research Fellowships

Deadline: October 18, 2023

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=349280>

Institute of Museum and Library Services

Grant: Inspire! Grants for Small Museums

Deadline: November 15, 2023

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=349273>

Institute of Museum and Library Services

Grant: National Leadership Grants for Museums

Deadline: November 15, 2023

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=349277>

Institute of Museum and Library Services

Grant: Native American/ Native Hawaiian Museum Services

Deadline: November 25, 2023

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=349276>

Department of Transportation

69A355 Research and Technology

Grant: Research Partnership on Climate Change and Transportation

Deadline: 11/27/2023

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=350340>

Department of Transportation

FAA- Aviation Next Gen

Grant: Fueling Aviation's Sustainable Transition via Sustainable Aviation Fuels (FAST-SAF) and Low-Emission Aviation Technologies (FAST-Tech) Grant Program

Deadline: 11/27/2023

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=350315>

Department of Commerce

Office of Naval Research

Grant: Department of the Navy(DoN) Historically Black Colleges and Universities/Minority Institutions Program

Deadline: 12/15/23

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=349252>

AmeriCorps

Grant: Fiscal Year (FY) 2024 AmeriCorps State and National Competitive Grants

Deadline: 1/4/2024

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=349881>

National Science Foundation

Grant Improving Undergraduate STEM Education: Hispanic-Serving Institutions

Deadline: 9/26/2025

<https://www.grants.gov/web/grants/view-opportunity.html?oppld=341684>

INTERNSHIPS

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Dan Meisinger Memorial Learn to Fly Scholarship

Scholarship Sponsor
National Air Transportation Foundation (NATA)

Contact

www.nata.aero

Usual Deadline

November

Amount(s) Awarded

One (1) Scholarships Awarded, valued at \$2,500

Description

The DanMeisinger Memorial Learn to Fly Scholarship was established in the honor and memory of Dan L. Meisinger Sr., whose career in aviation spanned 63 years. He was founder of Executive Beechcraft, headquartered in Kansas City, Missouri, and was twice named Beech Aircraft's Man of the Year. This fund's purpose is to provide an annual flight training scholarship to a qualified individual.

Scholarship Criteria

Applicants of the Dan L. Meisinger Sr. Memorial Learn to Fly Scholarship must be: A college student currently enrolled in an aviation program; A high academic achiever with a "B" average or better; Recommended by an aviation professional, although direct applications are acceptable; Residents of Kansas, Missouri, or Illinois, will be given preference.

Delta Air Lines Aviation Management Scholarship

Scholarship Sponsor
Aircraft Electronics Association (AEA)

Contact

dwallace@wai.org

Usual Deadline

November

Amount(s) Awarded

One (1) Scholarships Awarded, valued at \$5,000

Description

Through Women in Aviation International (WAI), the Delta Air Lines Aviation Management Scholarship is granted for \$5,000 annually to a deserving student enrolled in an Associate's or Bachelor's Degree program for aviation management.

Scholarship Criteria

Candidates must be full-time college students, have at least two semesters remaining, carry a minimum cumulative GPA of 3.0 or higher, have U.S. Citizenship or permanent residency, and write a 1,000-word career goals essay. Recipients also receive an expenses-paid trip to the Annual WIA Conference.




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Pratt & Whitney Engine Maintenance Scholarship

Scholarship Sponsor
Association for Women in Aviation Maintenance (AWAM)

Contact

www.awam.org

Usual Deadline

November

Amount(s) Awarded

Six (6) Scholarships Awarded, valued at \$5,500

Description

The DanMeisinger Memorial Learn to Fly Scholarship was established in the honor and memory of Dan L. Meisinger Sr., whose career in aviation spanned 63 years. He was founder of Executive Beechcraft, headquartered in Kansas City, Missouri, and was twice named Beech Aircraft's Man of the Year. This fund's purpose is to provide an annual flight training scholarship to a qualified individual.

Pioneers of Flight Scholarship

Scholarship Sponsor
National Air Transportation Foundation (NATA)

Contact

www.nata.aero

Usual Deadline

November

Amount(s) Awarded

Two (2) Scholarships Awarded, valued at \$1,000

Description

The National Air Transportation Foundation (NATF) established the Pioneers of Flight Scholarship Program in 1989 to offer financial assistance and encouragement to young people in the pursuit of academic excellence. By making scholarships available, NATF's ultimate goal is to foster and promote careers in the general aviation industry.

Scholarship Criteria

College students, sophomore or junior year; Enrolled in a full-time aviation degree program at an accredited four-year college or university; GPA of 3.0 + on a 4.0 scale; Able to demonstrate an interest in pursuing a career in general aviation.

Susan Liebler Female Student Pilot Scholarship

Scholarship Sponsor
Ninety-Nines, Ventura County Chapter

Contact

scholarships@vc99s.org

Usual Deadline

November

Amount(s) Awarded

Up to \$3,000

Description

Up to \$3,000 could be yours towards your flight training costs!

Scholarship Criteria

A female over the age of 17. Living/working in Ventura County or training at a Ventura County airport (CMA, OXR, SZP or NTD). A minimum of 5 flight hours within 90 days preceding the award application deadline. Two hours may be in an Advanced Aviation.

Zonta Amelia Earhart Fellowship Awards

Scholarship Sponsor
Zonta International Foundation (ZIF)

Contact

www.zonta.org

Usual Deadline

November

Amount(s) Awarded

One (1) Scholarships Awarded, valued at \$10,000

Description

Women of any nationality pursuing a Ph.D./doctoral degree, who demonstrate a superior academic record conducting research applied to aerospace engineering or space sciences are eligible. It is imperative that students be registered in a full-time Ph.D./doctoral program and have completed at least one year of that program, or have received a master's degree in an aerospace-applied field.

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THE AIM HIGH FLIGHT ACADEMY?

The AIM HIGH Flight Academy is a FREE, three-week program designed to inspire young adults to explore aviation. Students receive one-on-one training from Air Force and Certified Flight Instructors in a classroom and in the sky.

WHAT TO EXPECT?

The AIM HIGH Flight Academy is a three-week program that helps students gain confidence in aviation and prepares them to learn everything necessary to achieve up to 15 flight hours. A typical day in the program includes three key segments: flight simulator time, academic classroom time and flight time. You'll be assigned to a flight, paired with a wingman and an Air Force mentor to study and fly with throughout the program. Other activities you'll participate in include team building, study time and character development.

COMMISSIONING OPPORTUNITIES



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HOW DO I APPLY?

Scan the above QR code or visit:
<https://www.recruiting.af.mil/Aim-High-Flight-Academy/>

Basic Qualifications

- Must be 16 by June 1st*
- Be enrolled in high school or graduating seniors*
- A cumulative GPA of 3.0 or better



*U.S. Air Force Academy & Air Force ROTC Cadets may apply through their respective institution.

YOU WILL NEED

- A letter of recommendation from a high school principal or counselor
- An endorsement from someone who knows you well (like a job reference)
- A desire to learn about aviation and a strong work ethic

BENEFITS

- Earn up to 15 flight hours
- Meet other students from around the country
- Learn important skills needed to become an aviator
- Strengthen your skills as a leader
- Attend the program completely free of charge

Participation does not obligate military service.

GS 23-022 is produced by Air Force Recruiting Service.
Information may have changed since publication.

Morningside University

Tenure-Track Assistant Professor of Aviation

The Department of Aviation at Morningside University invites applications for an Assistant Professor of Aviation to support the operations of its newly created Aviation programs. This is a 9-month tenure track appointment, located on campus, with a start date of August 12, 2024.

Responsibilities:

- Teach undergraduate Aviation courses in areas to include, but not limited to, flight operations, aviation law, air traffic control, aviation meteorology, and human factors.
- Teaching load is 20 credits each academic year plus a May term once every three years.
- Advise and consult with undergraduate students as assigned.
- Engage in service to the university and participate in professional development activities.
- Work closely in collaboration with Oracle Aviation, the Chief Flight Instructor, and the Director of Aviation to deliver the Professional Flight air and ground schools as well as the Aviation Management major.

Qualifications:

- A Master's degree in Aviation or closely related field from a regionally accredited institution is required. A Doctorate degree in Aviation is preferred.
- Experience in a FAR Part 141 ground school setting.

- Although this position does not involve flight instruction, possession of FAA Advanced Ground Instructor and Instrument Ground Instructor ratings is preferred.

Review of applications for the position will begin immediately and will continue until filled. For fullest consideration, applicant materials should be received by October 30, 2023. Candidates for searches must have current authorization to be employed in the U.S. without employer sponsorship. Successful completion of a background check and education verification are required. All qualified applicants will receive consideration for employment without regard to age, sex, religion, creed, race, color, gender identity, sexual orientation, disability, genetic information, national origin, or other characteristics protected by state and federal law. Persons needing accommodations or assistance with the accessibility of materials related to this search are encouraged to contact the Director of Human Resources at welp@morningside.edu.

Apply on-line only by submitting an email to facultysearch@morningside.edu entering "Aviation Search" in the subject line, and attaching PDF or Microsoft Word files for the following documents: a letter of interest, current curriculum vitae, and a list of three professional references (name, phone number, and email). Questions about the position may be addressed to Dr. Tom Paulsen (712-274-5489 or paulsent@morningside.edu).

Posted to UAA on 10/02/23

Now Hiring!

Assistant Professor, Aviation and Space

The Oklahoma State University College of Education and Human Sciences' School of Educational Foundations, Leadership & Aviation is seeking a tenure track Assistant Professor in Aviation and Space to begin in August 2024.

Responsibilities

- Teach undergraduate and graduate courses
- Serve the university, college and program, including committee work
- Participate in curriculum implementation, revision and evaluation
- Required teaching load of three to four courses per a nine-month academic year

Required Qualifications

Earned doctorate with an emphasis in aviation, aerospace or closely aligned area.

Preferred Qualifications

- FAA commercial single and multi-engine pilot certificate
- Ability to act as a ground instructor under 14 CFR Part 141
- Aviation experience in the US Military and/or civilian air carrier industry
- Experience teaching undergraduate/graduate students

For more information contact
jon.loffi@okstate.edu.

okla.st/avedprof | education.okstate.edu/aado



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College of Education and Human Sciences



UNIVERSITY AVIATION ASSOCIATION

AVIATION POLICY SEMINAR

January 3-5, 2024 | Washington, DC

The University Aviation Association offers students and faculty the opportunity to interact with aviation industry leaders and members of Congress during the 2024 UAA Aviation Policy Seminar.

This Seminar is recommended for juniors, seniors, graduate students, and faculty with a background in aviation management.

Learning & Networking

- Students and faculty facilitators will spend the week on-site in the nation's capital attending briefings & seminars from the NTSB, the FAA, Congressional staff, and industry associations agencies such as NBAA and RAA
- Students will be able to network with others from across the country and gain valuable exposure to leaders in these organizations
- Students will have the opportunity to gain a better understanding of how these agencies interact in establishing aviation policy and what job opportunities may be available in the aviation industry
- Faculty and students will gain valuable insight into how they can participate in the process now and in the future



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Ryan Wallace, EdD

Embry-Riddle Aeronautical University

Douglas Williams, PhD

Community College of Baltimore County



UAA CONNECT | CALENDAR OF EVENTS

Colorado Drone Show

October 6 - 7, 2023

Fort Collins, CO

NBAA Conference

October 17-19, 2023

Las Vegas, NV

RACCA Annual Conference

October 31-November 2, 2023

Scottsdale, AZ

NAFI SUMMIT

October 6 - 7, 2023

Lakeland, Fla

UAA Aviation Policy Seminar

January 3-5, 2024

Washington, D.C.



For questions contact (901) 563-0505 or address your questions to hello@uaa.aero

Visit us on the web: www.uaa.aero University Aviation Association - 8092 Memphis Ave., Millington, TN 38053

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