

the Daily

Thursday, March 11, 2021



Welcome to #WAI21!

UPDATES

• Education Sessions

30 sessions to choose from in 7 Tracks
15 released on Thursday, March 11
15 released on Friday, March 12

New to Personal Development on Friday:

How To Navigate a Successful
Military Transition

• Exhibit Hall Hours

Sponsored by FedEx Express

Thursday, March 11

8:30 a.m.-10:30 a.m. EST
2-4 p.m. EST

Friday, March 12

8:30 a.m.-10:30 a.m. EST
2-4 p.m. EST

Join the Conversation

Help share the excitement of attending WAI's first virtual conference by using the hashtags



#WAI21

#IamWAI

#WomeninAviation

Thank you to our more than 19.7K Twitter followers.
We are so happy to have you on board!



While our annual gathering is different this year because we are not meeting in person, we promise to deliver the same engaging and inspirational content that our thousands of attendees expect every year! Our platform provides all kinds



of opportunities for you to connect, engage, and inspire during the next two days from the convenience of your home or office. And while our scheduled sessions run from 9 a.m.-5 p.m. EST every day, all registered attendees can access the content through March 31 allowing you to view at your own pace and time zone!

Today kicks off with loads of exhibitors to visit from 8:30-10:30 a.m. and this afternoon from 2-4 p.m. Grab a cup of coffee and join WAI staff and friends at Coffee Connect from 9-10 a.m. The general session runs from 10:30 a.m.-noon featuring keynote speakers Kristin Robertson, Aysha Alhameli, and Sunita Williams. During your lunch hour, join a candid panel discussion with the U.S. Coast Guard's five female African American pilots. Throughout the day, WAI will announce our WAI2021 scholarship winners. There are professional development seminars to attend as well as 15 education sessions to select from.

This afternoon, students are invited to attend the Student Connect Forum from 4-5 p.m., and chapter members will want to listen to the annual WAI Chapter Leadership Workshop from 5-6:30 p.m. to gain new ideas for chapter activities as well as useful tips to run an engaged chapter.

Tomorrow, Friday, we have another full day planned of additional keynote speakers, education sessions, exhibit hall hours, and more with networking opportunities organized during Coffee Connects and multiple Discussion Groups.

On Saturday, we are offering a very special virtual Girls in Aviation Day event from 1-3 p.m. EST for girls (and boys!) ages 8-17 to join via a Zoom webinar and meet Jasmin Moghbeli, NASA Astronaut, as well as female leaders of the U.S. Air Force Thunderbirds. There's still time to register for this FREE event at www.WAI.org/giadwai2021.

Share your best photos and thoughts on social media of your virtual #WAI21 conference experience!

Where is Our Industry Heading?

Industry experts share a snapshot of jobs and collegiate aviation programs



**WAI JOBS
CONNECT**

During tonight's Student Connect Forum from 4-5 p.m. EST, a number of industry representatives will provide an outlook on current and future opportunities for women looking to enter the aviation workforce. A snapshot of how industry and collegiate aviation programs are managing during the pandemic will be presented by Dr. Becky Lutte, professor and researcher at University of Nebraska Omaha and a member of the FAA Women in Aviation Advisory Board. The information Becky provides was obtained from interviews with industry and collegiate representatives, questionnaires, and review of aviation forecasts with the support of Cassandra Bosco, WAI education and industry relations director.

Summary of Collegiate Aviation Snapshot

Based on a review of 10 collegiate aviation programs, 60% reported an increase in enrollment for Fall 2020.

The collegiate aviation programs reported a range of 8% to 25% female enrollment. The majority fall into the range of 10% to 17%. By comparison, women currently represent just 5% of airline pilots and 2.5% of maintenance technicians. While enrollment numbers are higher than industry representation, women are still significantly underrepresented.



Embry-Riddle Aeronautical University had the highest reported percentage of female students in aviation of those who responded (25%). They attribute the success to several factors including strong and visible leadership commitment, scholarships, setting specific numeric goals, maintaining accountability for those goals, and establishing women ambassador programs.

Overall, pilot enrollment in University Aviation Association programs has increased from 13,748 in 2008 to 29,016 in 2020.

Cargo

In January 2021, air cargo demand returned to pre-covid levels for the first time since the start of the pandemic. Some cargo carriers are currently hiring pilots. Cargo is seeing an increase in diversity and gender among applicants.

Business Aviation and Charter Operators

Charter operators have seen an increase in first-time customers, and companies are actively hiring. There is an increase in first time owners leading to increased sales, use of management companies, and charter operations.

CAE's 10-year forecast shows continued growth for corporate and business aviation with a demand for 11,000 new corporate and business aircraft worldwide.

Helicopter Industry

For helicopter operators, the pandemic and related issues have resulted in reduced OEM production. Output levels are down and will continue to trend downward. Shortfalls in state and local budgets for police and fire departments lead to less use of helicopters in their operations. There is also turbulence offshore. However, industry representatives indicated that due to the unique role helicopters play in advanced air mobility, long-term demand for helicopter personnel including pilots and maintenance technicians will return.

Manufacturing

General aviation manufacturing is rebounding, particularly in the piston and business jet areas. Boeing has forecast the need for over 43,000 new commercial aircraft over the next 20 years. The EVTOL market continues to mature and will lead to significant future opportunities.

Workforce Development

The Boeing forecast predicts a need for 763,000 new civilian pilots, 739,000 new maintenance technicians, and 903,000 new cabin crew members worldwide over the next 20 years. Innovation will also continue to drive workforce needs. The increased integration of UAS, new technology such as EVTOL, and the increase in commercial space activity are all examples of potential job growth.

Although the industry was hit hard by the pandemic, there will continue to be great prospects for aviation hiring in the near- and long-term. WAI members are encouraged to visit Jobs Connect on the members section of the WAI website for more than 120 open positions in various career opportunities.

The Daily is a publication of Women in Aviation International, published during the annual conference.

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*APY= Annual Percentage Yield. Rates current as of 3/18/20 and subject to change. To earn the higher dividend rate, members must meet the following requirements: Must be enrolled in eDocuments, Must have ACH direct deposit(s) totaling over \$300 in the 31 calendar days preceding the last day of the month, Must have 15 net PIN or signature point-of-sale debit card transactions over \$5 in the 31 calendar days preceding the last business day of the month. The net is calculated by counting the number of PIN and signature point-of-sale debit purchase transactions over \$5 and subtracting any PIN or signature point-of-sale debit return transactions processed during that period. **If rate requirements are met, the APY will vary based on the balance in the account. The rate paid on balances up to \$25,000 will be 1.75% and the rate paid on balances over \$25,000 will be 0.05%.

Wings
FINANCIAL
CREDIT UNION



Aysha Alhamili supported Shaesta Waiz on her Dreams Soar project to fly around the world.

To Follow A Dream

There are “firsts,” and there are firsts. Capt. Aysha Mohammed Alhamili, who will speak in today’s morning general session, was the first woman in the United Arab Emirates (UAE) to earn her pilot’s license, and the first to become a commercial pilot. She went on to serve for over a decade as UAE’s representative to the ICAO Council—the youngest person ever to sit on the Council, and the first woman to run for its presidency—before accepting her current position as Senior Advisor for International Relations for UAE’s General Civil Aviation Authority.

To be the first woman in any field is a challenge. But to become a pilot in a country and culture where such a thing was unheard of, and at a time when women’s activities were still extremely restricted, is an extraordinary achievement. It also took an extraordinary level of determination and effort. When Aysha counsels other women to persevere and find alternate paths when doors to their dreams close to them, she speaks from a deep well of knowledge and experience. But her story also speaks to what’s possible along those alternate paths.

Having to fight so hard for her own dreams has also imbued Aysha with a deep passion for supporting other women who are navigating the challenges of being “first” or one of only a few women in their fields. And the advice she offers comes not just from experience, but from her heart. When she says “remember who you are, and know what you want and what makes you happy,” she’s sharing wisdom earned over 20 years of trying to balance her identity as a pilot, diplomat, and as an Emirati woman who persevered in the face of criticism, sacrifice, and isolation to live her dream.

But Aysha’s contagious, inspiring energy is also fueled by her sense of grace and gratitude. “Be grateful and be thankful to everybody around you,” she says, “because this journey will never happen without their support.” Indeed. Hearing her speak will make you feel as if you have Aysha Mohammed Alhamili’s personal support for your own journey, and for finding a way forward, no matter what challenges you face in pursuit of your dreams.

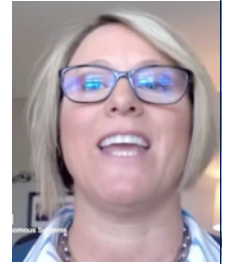
—Lane Wallace, WAI 5764

Bring Your CODE to the Table

Inspired by her father, (a chief engineer) and her mother, (a 19-year-old immigrant who traveled across the Atlantic Ocean in a ship alone), Kristin Robertson, Boeing vice president and general manager of Autonomous Systems, learned early on about the importance of perseverance and a solid work ethic.

Interviewed by Geraldine Wilmont, longtime Boeing representative to WAI, Kristin correlates her responsibility at Boeing’s Autonomous Systems to the value of being an Autonomous Woman. Tune in to Kristin’s session to learn the definition of ‘CODE’ and the importance of “supporting each other like this WAI conference, as we are all in this together,” she adds.

Kristin also takes the time to answer questions about diversity in the workplace, advice for women pursuing careers in engineering, as well as announce this year’s WAI Boeing Scholarship winners.



Kristin Robertson answers a question about diversified talent from Eric’El Johnson, Boeing electrical engineer.



Sunita Williams, NASA Astronaut

Naval aviator swimmer who wanted to be a diver, Sunita Williams shares her candid journey from flying helicopters to becoming a NASA Astronaut. “I loved the low, fast perspective of the earth in H-46 delivering supplies from eggs to bombs,” Sunita says.

Her second time applying to become an astronaut, Sunita was accepted by NASA in June 1998 launching a space career that has established her as a female record-holder with four spacewalks totaling 29 hours and 17 minutes. In addition, Sunita, who has spent a total of 322 days in space on two missions, now ranks sixth on the all-time U.S. endurance list, and second all-time for a female astronaut. Currently training for the first post-certification mission of Boeing’s Starliner spacecraft and her third long duration mission aboard the International Space Station.

During her keynote session, you will learn what it’s like to do a spacewalk and what Sunita’s top favorite accomplishments are.

Confidence is Key

Where does your confidence stem from? On Thursday, March 11 at 2 p.m. EST, Maj. Gen. Jeannie Leavitt will discuss how confidence and mental toughness can turn your challenges into opportunities and how to navigate those opportunities in today's world.

After she graduated undergraduate pilot training at Laughlin Air Force Base in Texas, Maj. Gen. Leavitt went on to become the service's first female fighter pilot, immediately after a policy change which allowed women to serve in air combat positions. Throughout her career, she has been consistently reminded of how she was the first—the first female fighter pilot, the first female to apply and be accepted to weapons school, and the first female to command the 57th Wing at Nellis Air Force Base.



No stranger to a challenge, Maj. Gen. Leavitt has confidently approached each one as an opportunity. As mental toughness and confidence continue to develop in each of us as we grow through new experiences, it's important to remember we have the freedom to rise above any obstacle.

Hear from the expert on how to be persistent, process stress, and rise every time you fall. Join us this afternoon at 2 p.m. EST, as Maj. Gen. Leavitt discusses how to become your strongest, most confident self and more.

After her discussion, feel free to stay and connect with mentors in our Air Force room. Our aviatrixes are ready to talk about the United States Air Force Academy, Reserve Officer Training Corps, Civil Air Patrol, Civilian Services, Air National Guard and Air Force Reserve. Let us help you make your dreams a reality. We'll see you there!

Finding Confidence and Mental Toughness

You are invited to a ZoomGov meeting.
Thursday, March 11, 2021 2 p.m. Eastern Time (US and Canada)

Register in advance for this meeting:
https://www.zoomgov.com/meeting/register/vJltduihrj0vGSMUmuFNFI_8tiWqSD1ao40

After registering, you will receive a confirmation email containing information about joining the meeting.



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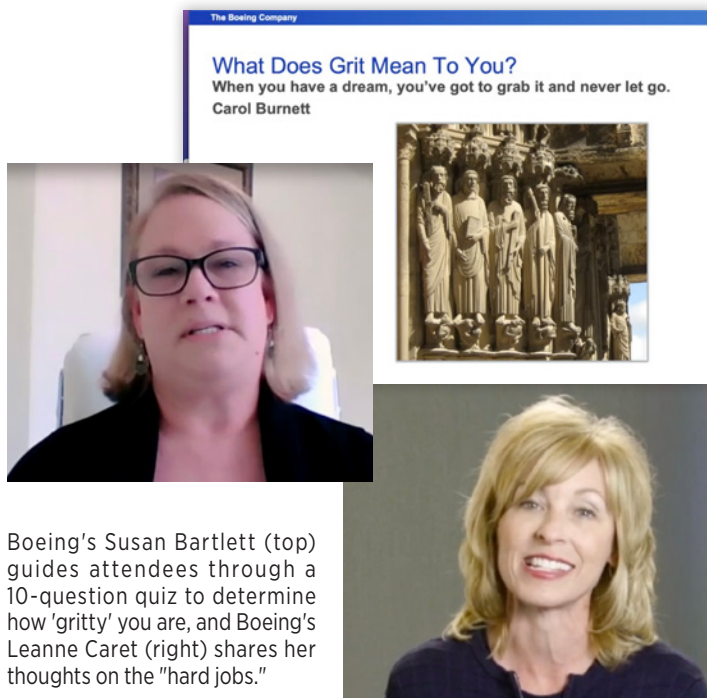
Inspire Future Aviators in the Classroom

We all agree it is important to develop programs that inspire students to pursue aviation careers. This annual Aerospace Educators Workshop, presented by the FAA AVSED Team led by longtime educator Jim Brough, is always a popular session at conference. This year tune in Thursday, from 9-9:30 a.m. EST, to hear panelists Joey Colleran of Redbird Flight Simulations, Christina Drouet of FAA's Aviation Workforce & Education, Susan Mallett of Civil Air Patrol, and Elizabeth Tennyson of AOPA, share their ideas about how to bring STEM skills and aviation topics into the classroom. At the conclusion of the 30-minute session, have your questions answered during a live discussion group with the panelists from 9:30-10 a.m. EST.



Professional Development Seminar

Developing True Grit



Boeing's Susan Bartlett (top) guides attendees through a 10-question quiz to determine how 'gritty' you are, and Boeing's Leanne Caret (right) shares her thoughts on the "hard jobs."

What is grit? And what is the benefit of having it? Does grit impact how successful a person is or will be? Boeing's Susan Bartlett will present today during her Professional Development Seminar a 10-question quiz to help you determine how 'gritty' you are and explains how to look at your scores for an overall rating, by 'passion' and by 'perseverance' levels.

What common characteristic do the highly accomplished have in common? Perseverance. They have a 'never give up attitude.' Trying again and again makes all the difference. You have to actively fight the failure and rejection and keep going.

What do we know about the relationship between talent and effort? Achievement is talent plus preparation. Perseverance plays a large role in success. You have to put in the work to make success happens. Researchers have settled on the number of hours to achieve true expertise, and it is 10,000 hours.

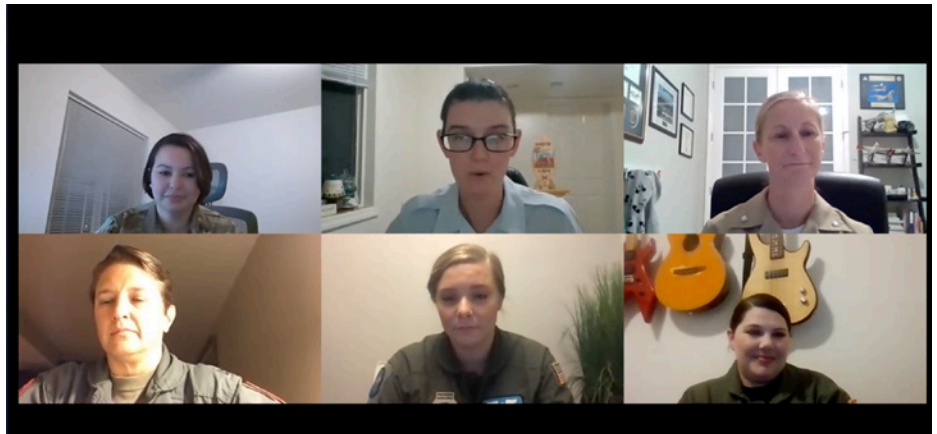
Susan delves further and outlines four psychological assets that gritty people have in common and how they develop in a particular order.

Remember if things are difficult, and maybe even terrifying, that's ok. You may struggle, but don't avoid difficulties and stay in your comfort zone. By facing difficulties, you'll learn the hard lessons and become strong, confident, and self-assured. Be gritty!

—Michelle Graves, WAI 45798

Non-Pilot Flying Careers in the Military

There are many non-pilot flying careers available in the military as shared by six women who hold various positions from aviation flight attendant, to air battle manager, flight test engineer, maintenance, and navigator. In today's Military Education Session, the panel participants with careers spanning 20+ years in the military, have a candid conversation ranging from upbringings, family life, to salient advice given to them as they have pivoted their careers and education to achieve their current positions.



After discussing their amazing backgrounds, they chat about gender and the difference in how they were treated on the ground vs. in the air. Navigator Alyssa Wilson with 13-years in the Navy says, "Not an issue in the air where every opinion matters; more an issue on the ground when in a room full of men, it's hard to get your voice heard and advocate for your ideas." Col. Tracie Garcia adds, "the least rank (in the air) still has invested a significant amount of training. "(I) felt questioned when in an office/staff setting on the ground, never in the air," Karen Moore, Master Sergeant Air Force,

jokes, adding "the most sexist thing I found as an aviator was my flight suit. Men had it easy." She points out that in maintenance you get it all out, talking trash, but end of day, that is your sister/brother. Brenda Rodriguez agrees, noting "in maintenance, you could be more of a straight shooter, but operations was different." She learned that "I don't have to attend every argument that I'm invited to. Sometimes you need to walk away because they don't get it; it's not easy, but I found it works better."

—Mary Woolf, WAI 45799



Mind, Body, and Spirit

Take some time for YOU during WAI2021!

Attend an on demand virtual yoga class with Eileen Simoneau with Chart it All. The class is appropriate for all skill levels, and beginners are welcome. Namaste!

Join two sessions of Mindfulness & Mediation with Lee Papa. Today's virtual class includes an introduction and tomorrow's session is about Journey on a Cloud. Breathe deeply, and enjoy!



Read A Lot

Learn about aviation books and meet the authors during a series of video presentations in WAI's Authors Connect. All available on demand for viewing on the WAI YouTube: WomeninAviationIntl, search Authors Connect. There are a variety of books for adult and younger readers. It's a wonderful opportunity to find that next book for your reading list or to inspire a future aviatrix!



Exhibit Hall Hours

THURSDAY,
MARCH 11
8:30-10:30 a.m.
2-4 p.m.

FRIDAY,
MARCH 12
8:30-10:30 a.m.
2-4 p.m.

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 CAMP Systems International
 Cape Air
 Cirrus Aircraft
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 Wings Financial Credit Union
 Wings For Val Foundation
 Women Military Aviators
 XOJET Aviation

Amending the Flight Plan

In today's Career Education Sessions, Robin Kardon, a lawyer, consultant, pilot, and author, discusses how to change the course at any point in your career. Based on personal experience and assisting others with making career changes, Robin provides clear step-by-step guidance and practical advice on how to move from where you are today to where you want to be tomorrow. Through these steps, she discusses the necessity for understanding the 'why' behind your decision to make a change, and the documentation you should always keep current, to how to lay out a plan. Quoting Oprah Winfrey, she notes, "Nothing happens until you decide. Make a decision and watch your life move forward."

Robin discusses the necessity for laying out SMART goals, gathering your assets (skills, education), and building a budget. Once the foundation is in place, it's time to choose. Make a decision. Build a plan. Take a step...then another...then another. Steps will keep you moving forward, but sometimes diversions (like furloughs) happen. If that happens, reassess, figure out what you need, but don't let it deter you. She also advises to have a backup plan. The best time to prepare for having to take a course correction is when things are going well and your career is progressing as you want. Build a side business. "It's your insurance policy against the uncertainty of aviation."

Robin closes by affirming, "You can change your life. You can change your situation. There is not an age or time where you can't."

FURLOUGHED?

- 135 OPS
- SCHEDULER
- RECEPTIONIST
- BOOKING CHARTERS
- SELLING CHARTERS

- INTEGRITY
- LEADERSHIP
- HUMILITY
- PERSONAL RESPONSIBILITY
- TEAMWORK
- HOW YOU TREAT OTHERS

WHEN THE WORST HAPPENS... BE AT YOUR BEST!

START BUILDING A SIDE BUSINESS

IT WILL TAKE A LOT OF YOUR SPARE TIME

IT'S AN INVESTMENT

AN INSURANCE POLICY AGAINST THE UNCERTAINTY OF AVIATION

She encourages listeners to "Be ready to pivot if things don't go exactly as planned. You can take what you learned in any job/career and apply it in the next job/career."

For a copy of her presentation, email Robin at RobinKardon@gmail.com and include subject line: WAI: Amending the Flight Plan.

—Mary Woolf, WAI 45799

Who is Your Biggest Asset?

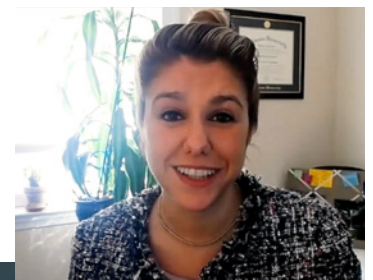
What does it mean to show up for yourself? You must first start with 'who are you?' You must understand your intuitive and emotional self in order to gain the most benefit. Watch today's Personal Development Education Session titled Show Up for Yourself, presented by Ashley Alexandra Recchione.

How does focusing on showing up for yourself authentically help you? It will help you understand what success means to you and how to get there. This promotes your happiness and aligns all aspects of your life to be empathetic...to yourself! This leads to understanding others better and allows you to be an influencer. This all leads to being able to reach your full potential and learning that you are capable of much more than you think.

What is your call to action? and how do you get there? Ashley diagrams several key factors and provides details of what to think about for each. She goes on to share that there are three universal traits that help you develop skills to show up for yourself: patience, discipline, and tenacity. History has proven that people with these traits are able

to accomplish truly great things. Focus on these, and you'll be able to show up for yourself like never before! Remember that your biggest asset is YOU.

—Michelle Graves, WAI 45798



This is your *Hottest* action!
3 Universal Traits to help you

- ✓ *Patience - Consciousness!*
- ✓ *Discipline - Smart!*
- ✓ *Tenacity - Tough!*

QUICK REFERENCE GUIDE

THURSDAY, MARCH 11

8:30-10 a.m.	Exhibit Hall Hours <i>Sponsored by FedEx Express</i>
9-10 a.m.	Coffee Connect <i>Sponsored by Piper Aircraft</i>
9-9:30 a.m.	Aerospace Educators Workshop <i>Sponsored by AOPA</i> Presented by FAA AVSED Team
9:30-10 a.m.	Aerospace Educators Workshop Live Discussion
10:30 a.m.-noon	General Session <i>Sponsored by The Boeing Company</i>
12:30-1:30 p.m.	Lunch Hour <i>Sponsored by UPS</i>
1:30-3 p.m.	Professional Development Seminar Developing True Grit <i>Sponsored by Michelin Aircraft Tires</i>
2-3 p.m.	Annual Membership Meeting
2-4 p.m.	Exhibit Hall Hours <i>Sponsored by FedEx Express</i>
3:30-5 p.m.	Professional Development Seminar Perspective vs. Perception: You didn't Hear What I said I meant <i>Sponsored by Collins Aerospace</i>
4-5 p.m.	Student Connect Forum <i>Sponsored by Collins Aerospace</i>
5-6:30 p.m.	WAI Chapter Leadership Workshop <i>Sponsored by Netflix Aviation</i>

On demand

EDUCATION SESSIONS

(Available on demand Thursday 8 a.m. to view at your own pace)

Career

Sponsored by UPS

- Flying Forward Together
- Amending the Flight Plan
- Resumes, Interviews, and Follow-Up, Oh My!
- Soaring to Your Potential

Flying

Sponsored by Walmart

- Pilot Talent Diversity

History

Sponsored by Textron Aviation

- Women's Place in Space

Innovation

Sponsored by Gulfstream Aerospace Corporation

- Why Stop at Earth When You Can Reach Space?
- Becoming an Aviation Entrepreneur

Maintenance/Tech Ops

Sponsored by ConocoPhillips Aviation

- Airworthiness Defined
- Preventive Maintenance

Military Aviation

Sponsored by Gulfstream Aerospace Corporation

- Nonpilot Flying Careers in the Military

Thursday Personal Development

Sponsored by NATCA

- Show Up for Yourself
- Financial Stability in Unexpected Turbulence
- Finding the Right Balance for You and Your Family
- Checkride-itis

On demand

SEMINARS & WORKSHOPS

- Be a Mentor. Find a Mentor.
- Cleared for Takeoff: Generating Mental Lift While Grounded (Presented by NGPA Women's Committee)
- Plan and Host an Outstanding GIAD Event

On demand

MIND, BODY, SPIRIT

- Virtual Yoga with Eileen Simoneau
- Introduction to Mindfulness & Meditation with Lee Papa
- Journey on a Cloud with Lee Papa



WAI2021

To maximize your WAI2021 experience, reference the Conference Attendee Experience Guide available in the Help Desk and Media Center or access at www.WAI.org/conference-overview.



Industry Briefings

On demand

These sessions allow companies to showcase opportunities within their organizations. Attendees will be able to ask company representatives questions during the related Discussion Group chats that will be held per the schedule below.

Industry Briefings

Available on demand throughout the duration of the conference. Join the discussion groups for live Q&As!

Alaska Airlines/Horizon Air Discussion Group

FRIDAY, MARCH 12

1:30-2:30 p.m. EST

Cape Air Discussion Group

THURSDAY, MARCH 11

2-3 p.m. EST

Federal Aviation Administration (FAA) Discussion Group

THURSDAY, MARCH 11

Noon-1 p.m. EST

Netflix Discussion Group

FRIDAY, MARCH 12

Noon-1 p.m. EST

United Airlines Discussion Group

THURSDAY, MARCH 11

3-4 p.m. EST

Check www.WAI.org/industry-briefings for additional details.



 **WomenVenture**

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Visit EAA's WomenVenture booth during the WAI Virtual Conference to register for your 2021 WomenVenture T-shirt and Power Lunch.

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Defining Fabulous



Fab Five

They are the first five black female pilots to serve in the U.S. Coast Guard. And in their lunchtime panel presentation today, the “Fab Five,” as they call themselves, will share inspirational behind-the-scenes stories, struggles and joyful moments of sisterhood and support that have helped them blaze that trail.

Seventeen years ago, Cdr. Jeanine Menze became the first black woman to earn her Coast Guard wings. In the years since, only four other black women have joined those ranks (a sixth just graduated from flight training in December). The Coast Guard, as Lt. Cdr. Chanel Lee explains, is “a small organization where a small number of people do extraordinary things with the supplies they are given.” The Fab Five are no exception.

In 2017, Lt. Ronaqua Russell won the Air Medal for her exceptional flying in Texas and Alabama during Hurricane Harvey. Cdr. Menze, who’s about to become the Operations Officer for Air Station Clearwater, is currently in charge of all Coast Guard HC-130 crew training. Lt. Cdr. La-Shanda Holmes, after completing interdiction training in the MH-65 helicopter and a White House Fellowship, serving as aide-de-camp to NASA Administrator (and former astronaut) Charles Bolden, is

currently the Deputy Senate Liaison for the Coast Guard. Lt. Cdr. Chanel Lee, who flies the MH-60 helicopter, is getting her graduate degree in aerospace engineering. And Lt. Cdr. Angel Hughes co-founded an organization called Sisters of the Skies to help minority girls get scholarships and mentors to aid them in becoming commercial pilots. (Applications for young women seeking mentors for 2021 are due by March 31; for more information, visit www.sistersoftheskies.org.)

But what makes the Fab Five presentation so “fabulous” is the group’s authentic and open honesty in sharing their moments of doubt, the times they almost walked away, their challenges (which ranged from feelings of isolation and incidents of microaggression to Cdr. Menze’s fear of swimming), the joys and rewards they’ve experienced, and how crucial the support of each other has been to their success.

Tune in to hear these ladies. Their spirits and stories will make you smile, warm your hearts, and remind you of how important true friendship is.

—Lane Wallace, WAI 5764



The Future of Electric Flight

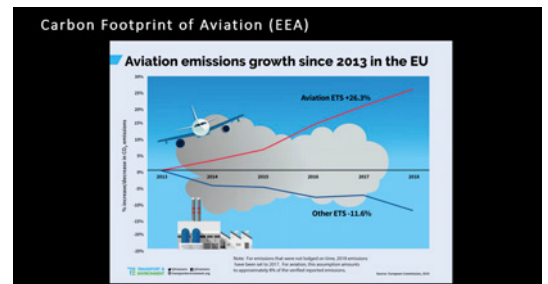
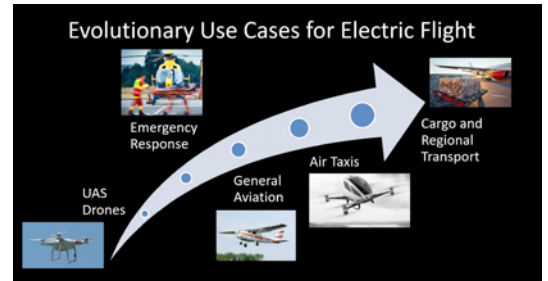
Dr. Anita Sengupta, associate professor of Astronautics and Space Technology at University of Southern California and founder/CEO of Hydroplane Ltd., showcases current and future developments of electric aviation including general aviation, trainer aircraft, and helicopters on Mars during her Innovation Education Session available starting today. She is an avid pilot and shares her own 'flight path' starting with NASA, where she spent 16 years, before moving to two start-ups.

Why electric flight? Planes have a high carbon footprint per passenger per kilometer travelled and are on course to become the dominant source of carbon emissions in the transportation sector. Dr. Sengupta highlights how to get from using carbon and gas fueled aircraft to emission-free aircraft.

She explains electric flight is like any other flight but uses electricity to generate lift instead of fuel powered engines. Benefits include lower CO2 emissions, quieter engines, and lower maintenance costs. In the near future, Dr. Sengupta notes the development of urban air mobility-flying cars. She also highlights Electric Vertical Takeoff & Landing (VTOL) aircraft are being developed to enable 3-dimensional use of low level airspace in our cities. Government initiatives and private companies are taking steps to move the path forward. New technologies and operations methods will be needed.

As a final flourish, Dr. Sengupta talks about electric flight on other planets such as Ingenuity on Mars and Dragonfly headed to Titan!

—Michelle Graves, WAI 45798



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Women's Place in Space



This History Education Session released today by Loretta Hall, author and National Space Society Space Ambassador, highlights some of the women who pioneered space exploration. There have now been 65 women who have gone into space. The women showcased range from Jeanette Piccard, who, with her husband, flew a balloon in 1934 into the stratosphere to study cosmic radiation after becoming the first woman to be a licensed balloon pilot in the United States to the Mercury 13 where 18 women were tested to see how they would perform in rigorous physical testing for astronauts. Several women tested and performed very well, however, NASA would not allow further testing or use of government facilities for the women to advance.

The Space Shuttle program offered better opportunity for women and minorities and Space Shuttle astronauts have included Sally Ride, Ellen Ochoa, Eileen Collins, and Peggy Whitson.

Space is a hostile environment to human beings. With increasing sample sizes of women, we are beginning to get a better sense of how that hostile environment affects men and women differently or similarly which can help with further space exploration. Loretta shares a diagram of how space exploration affects female and male astronauts differently.

For more information about Women's Place in Space, Loretta has several books that dive into the subject!

—Michelle Graves, WAI 45798

Since 1961

- 567 People in Space
- 502 Men
- 65 Women (11.5%)
- 38 on ISS (15.8%)

Women's Place in Space

Loretta Hall
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Airworthiness Defined

Bill Russo, a member of the Association for Women in Aviation Maintenance (AWAM), discusses today during a Maintenance/Tech Ops Education Session the importance of airworthiness yet the distinction in the definition surrounding this term. He explains the incorrect information on the internet and shares how the FAA defines and has redefined this term in the regulations. Spoiler alert! The FAA Order 8900.1 Title 14 CFR Part 3.5 (a) defines Airworthy to mean the aircraft conforms to its type design and is in condition for safe operations. Bill goes on to explain the difference between Type Certificate vs. Type Design as both terms have been used through the years to describe Airworthiness. He concludes the discussion with providing multiple examples of how the maintenance crews ensure the work conducted on the planes meet the specifications for that aircraft and can meet all the criteria to ensure the aircraft is in the proper condition for safe operations.

—Mary Wolf, WAI 45799





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