



# THE FLYER

Fall 2016

A newsletter for students, alumni & friends of the School of Aviation & Transportation Technology

Time to say goodbye: Top Hawk Cessna 172 donated by Textron Aviation for the 2015-2016 school year.



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## A message from John Mott, Interim Head



Welcome to the latest issue of the Flyer, our newsletter that is created and distributed on a regular basis to our SATT family. As the Purdue Polytechnic Institute and the school continue along the pathway of transforming the undergraduate learning experience, we realize that it is important to communicate our progress to our various stakeholders. The Flyer is one avenue by which we plan to do so. I hope you will find this edition both informative and enjoyable!

Upon my appointment as Interim Head of the School of Aviation & Transportation Technology in July of this year, I set the following three primary goals:

1. Recruit great new faculty and staff and retain our excellent current faculty and staff;
2. Further progress toward achievement of the goals associated with the transformational elements of the Polytechnic, and
3. Selective enhancement of infrastructure.

In order to recruit and retain high quality students, we must recruit and retain the best faculty and staff for the school. Thus far in the 2016 – 2017 academic year, we have filled several vacant positions and have received approval to hire four continuing lecturers in the primary flight program, two continuing lecturers in our turbine flight operations, one Secretary V in the main office, one additional AET laboratory technician, and three tenure-track faculty positions, with the anticipation of four tenure-track positions for 2017 – 2018. In an effort to improve retention of our part-time flight instructors, we implemented substantial pay increases for these students and also made available 12 scholarships for top instructors to cover a portion of their tuition. By doing so, we have seen more of our exceptional flight students joining our instructional staff.

The school has made great strides as we move forward with the 10 transformational goals set by Polytechnic. The SATT Transformation Committee was constituted in August and is meeting on a regular basis. This faculty committee is tasked with developing plans for attaining the 10 goals and creating an assessment process for measuring progress toward those goals.

The school continues to develop stronger partnerships between other Polytechnic departments, colleges, and industry. The relationships between Purdue's Lyles School of Civil Engineering, College of Agriculture, and SATT are strengthening with partnerships to operate Unmanned Aerial Systems for research activities. In August, it was announced that a partnership between Ivy Tech Community College and Purdue will allow Ivy Tech students to earn an Ivy Tech associate degree in aviation maintenance with a powerplant concentration by taking a portion of their coursework in our school. An expansion of student collaborative space resulting from enhancements in Niswonger Hall and Hangar 5 allow us to increase required capstone projects across all SATT majors. Increasing internships through industry partnerships is a high priority over this next year and beyond, as well. The school has already signed bridge agreements with a number of airlines, including PSA, Envoy, Piedmont, and others. We will continue to have conversations with additional leaders in the industry as the year continues.

The Polytechnic has recently awarded the school over \$600,000 in funding to improve our AET laboratories, including Hangar 1, the powerplant labs, and the avionics lab. Additional improvements to Niswonger Hall and the airport campus are occurring or will occur over the remainder of the year. A Dispatch Center and Flight Operations Center is under construction in Hangar 5. This will allow NISW 145, starting Spring 2017, to be repurposed as a multi-use classroom/conference room/lab space once renovations are completed. The construction of a third advising office in NISW 172 will allow the NISW 192 suite to be returned to students for use as collaboration workspace.

These are just a few of the accomplishments of the year to date and plans for the remainder of the year. We invite you to stay tuned for upcoming announcements as the progress our team continues to make further reinforces our position as the nation's premier collegiate aviation institution!



A bi-annual newsletter published for students, faculty, staff, alumni and friends of the School of Aviation and Transportation Technology

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## Photo Credits

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Vicki Gilbert

## WE WANT TO HEAR FROM YOU!

Please connect with us at [aviation@purdue.edu](mailto:aviation@purdue.edu) to let us know what you're up to

## ALL SATT NEWS:

[polytechnic.purdue.edu/at/news](http://polytechnic.purdue.edu/at/news)



**PURDUE AVIATION & TRANSPORTATION  
TECHNOLOGY**

# Raisbeck and the Pathfinder Awards

By Juliana Baluh, Junior, AET

This October, a small group of faculty and students, including me, received an amazing opportunity to tour Raisbeck Aviation High School and attend the Museum of Flight's Annual Pathfinder Awards ceremony in Seattle, Washington. The Pathfinder award honors individuals in the aerospace industry that throughout the year have made an impact within aviation. Throughout our time in the city we were able to meet many different people at different stages in the aerospace industry. We started off our time in Seattle by touring the high school that Dr. James D. Raisbeck, a Purdue alum, started to help educate young students in the importance of aviation. Raisbeck Aviation High School gave us a look at a group of students that are uniquely gifted and highly motivated. The students and the facility itself were very impressive. During our tour of the high school, we broke for a lunch-in where we received the opportunity to meet the Pathfinder recipients in a small setting. The recipients—Jeff Bezos, CEO of Amazon and Blue Origin, and Addison Pemberton, an avid restorer of antique airplanes and co-owner of Scani-valve Corporation- were inspirational to listen to as people from different schools and departments asked them questions. Questions from what they were like when they were children to where they saw the aerospace industry headed and even the world going in five years or in 20 years. Needless to say, it was fantastic to listen to people such as Mr. Bezos, Mr. Pemberton, and Dr. Raisbeck talk about their time in industry and to be able to see their enthusiasm speaking with students from the high school and universities around the country. The award



ceremony itself was no less inspirational. There were past Pathfinders at the ceremony ranging from test pilots to astronauts to engineers to leaders within companies. There was a common trend amongst the group. They said—in slightly different ways—that they could not have gotten where they were without the help of others, while their road was by no means easy or smooth, but that achieving what they have

has been completely worth the many failures they had to work through to be where they are now. This group of individuals was amazingly humble about their achievements. To see them actively seek out the students and listen to what they had to say was inspirational in itself. They know that the only way for future progress to be made in the aerospace industry is to have students become interested. That is one of the main goals of Raisbeck Aviation High School. The award ceremony was a great way for students to meet people from many different sides of the aerospace industry and actively walk amongst inspirational people.

Source: [www.museumofflight.org/About-Us/pathfinder-awards](http://www.museumofflight.org/About-Us/pathfinder-awards)

## GIRLS IN AVIATION DAY 2016

By Abbie Ijams, Grad, MSAAM

The Purdue Chapter of Women in Aviation hosted the very first Girls in Aviation Day on September 24, 2016. It consisted of eight corporate sponsors, 100 girls from grades 3-8, 60 student volunteers, and several fun aviation-related activities. The day started out with fun ice breakers and then they were off to their different activities. There was an aircraft static display featuring aircraft from Piedmont Airlines, PSA Airlines, and, of course, Purdue. The girls had the opportunity to learn about safety wire and electrical wiring within aircraft and made colorful airplane bracelets. They also learned how to marshal an aircraft and had a lot of fun pulling the Top Hawk. Southwest Airlines taught the girls about flight planning and gave them the chance to build airplanes with materials you can find on a commercial airliner (coke cans, napkins, etc.). And last but not least, the day ended with cake and a celebration during which each girl received a patch and a certificate of completion. Women in Aviation was able to teach young girls about aviation and inspire them to pursue a career in the field. The student organization hopes to continue to encourage young girls to join them in being women in aviation.



## MASTER'S DEGREE AVIATION AND AEROSPACE MANAGEMENT [FOR WORKING PROFESSIONALS]

**100% CLASSES ONLINE**

**PREPARE TO LEAD IN THE AVIATION INDUSTRY:**

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- Understand the latest aviation tools and technology.
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**Rose Delong-Bolyard**

SENIOR ADVISOR

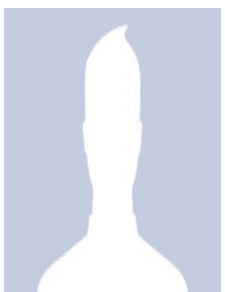
Advisor for: Professional Flight Technology; Unmanned Aerial Systems



**Allen Reigel**

ACADEMIC ADVISOR

Advisor for: Aviation Management; Aerospace Financial Analysis; Airport Management & Operations; Airline Management & Operations



**Yuliya Boesch**

ACADEMIC ADVISOR

Advisor for: Aeronautical Engineering Technology

## Mission

The mission of undergraduate advising at Purdue is to partner with students, faculty, staff, departments and administration to empower students to develop and implement an individualized plan for academic success, and personal and career development, while integrating learning and enrichment within the University and community, as well as assisting students in understanding the nature, purpose and value of higher education.

## Vision

Purdue University aspires to be recognized for excellence in academic advising as compared to our peer and aspirant institutions.

## Outcomes

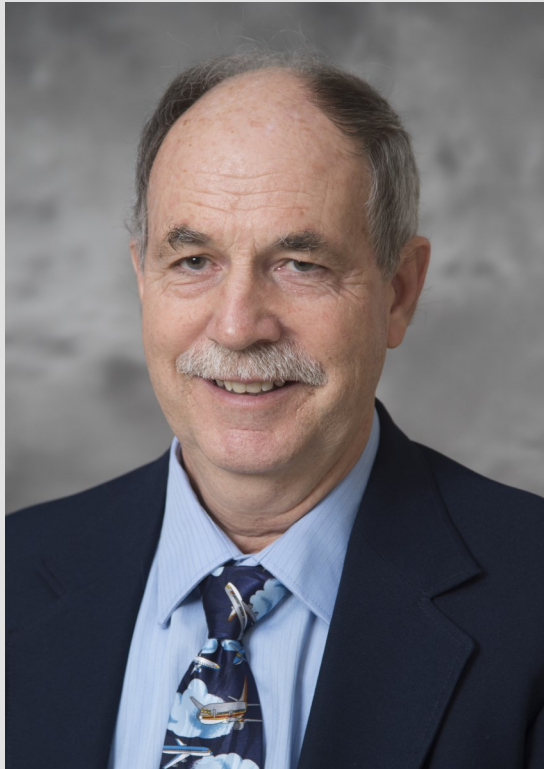
- Assist students in assessing their interests and abilities, examining their educational goals, making decisions and developing short-term and long-term plans to meet their objectives.
- Provide accurate and timely information about degree requirements and institutional policies, procedures, and courses so students can select appropriate courses and other educational experiences.
- Evaluate and monitor student academic progress and empower students to demonstrate self-direction and self-sufficiency in the achievement of their educational goals.
- Make students aware of and refer to educational and institutional resources and services (e.g., internship, study abroad, honors, service-learning, research opportunities, adaptive services, academic success center).

## 2017 SATT CAREER FAIR



The annual **SATT Career Fair** is scheduled for February 2, 2017. As usual, the event will be held in the Niswonger Aviation Technology Building on Purdue's campus. This event allows companies to meet and discuss career opportunities with the many student aviation professionals, both undergraduate and graduate as well as alumni from the program.

Interested company participants can register for the Career Fair online at [polytechnic.purdue.edu/schools/aviation-and-transportation-technology](http://polytechnic.purdue.edu/schools/aviation-and-transportation-technology) at Career Resources or by emailing [aviation@purdue.edu](mailto:aviation@purdue.edu).



## STAFF SPOTLIGHT

### John P. Young, Faculty

John Young is a Professor in the School of Aviation and Transportation Technology in West Lafayette, Indiana. His first position at Purdue was instructing flight students at Hangar 6. He ventured away from Purdue for a while and worked in the airline industry as a commercial pilot. However, higher education drew him back to Purdue. He enjoys the academic life/environment, stability of the job, and especially working with students. Professor Young currently teaches both undergraduate and graduate level courses. His teaching interests include aviation human factors, crew resource management, and design and delivery of aviation education/training.

Over Professor Young's career, he has won several awards and accolades for his work. This year, he was awarded the William A. Wheatly Award in national recognition of outstanding contributions to aviation education research/scholarship. He also received the Frank E. Sorenson Award in 2002 and the V.L. Larsen Award in 1999, as well as departmental and college teaching awards. He has and continues to be an active member in the University Aviation Association (UAA) where he served on the Board of Directors in many capacities, including president. As an active member of UAA for 28 years, he has presented at many national conferences, chaired and served on several key committees, and facilitated selection of student poster awards and faculty awards. He served on the selection committee for the current UAA executive director and has helped select the professional development workshops for the annual fall conference. In addition, he is a member of the Editorial Review Boards for UAA's Collegiate Aviation Review, International Journal of Applied Aviation Studies, International Journal of Professional Aviation Training and Testing Research, and International Journal of Aviation, Aeronautics, and Aerospace.

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Professor Young is a Faculty Advisor for Purdue Professional Pilots (PPP) and has assisted with Boiler Gold Rush, the Purdue International Friendship Program, and the AT Library. He was the nominator for the student who was selected as the spring 2015 Purdue commencement responder. He teaches several graduate courses, including in-resident and online master's courses. Over the past 40+ years in collegiate aviation education at Purdue, he has taught many of the professional flight lecture, aircraft, and simulator courses.

In his personal time, he enjoys playing tennis, hiking in local, state and national parks, playing mountain dulcimer, and canoeing the waters of Indiana. After he retires in May 2017, he hopes to travel, volunteer his time at church and in the community, and spend time outdoors. One adventure he and his wife, Sue, hope to accomplish is working for a summer in Yellowstone National Park, exploring that vast and beautiful land.

Professor Young would like to encourage current and potential students at Purdue to "take advantage of the opportunities Purdue offers, do the extra things over and above what your curriculum requires." He also advises students to make the most out of every opportunity as there are many great clubs, organizations and opportunities to meet and network with amazing people in the aviation industry.

# Purdue AAAE receives warm welcome at Detroit Airport



By Megan Ley, Junior in AVMG

On November 5, 2016, about 20 members of the Purdue University chapter of the American Association of Airport Executives (AAAE) made the four-hour trek to the Lower Peninsula of Michigan. The group of students traversed over 250 miles for a tour of Detroit Metropolitan Wayne County Airport (DTW), more commonly referred to as Detroit Metro, located just 20 miles southwest of downtown Detroit.

"It was one of the best trips we've ever been on. Not only did we get to walk on their brand-new runway but a couple members got to ride in one of their ARFF trucks for a live demonstration. It doesn't get any more hands-on than that," Purdue AAAE president Megan Ley, a junior in aviation management, said.

**AMERICAN ASSOCIATION  
OF AIRPORT EXECUTIVES**

The three-hour tour consisted of a packed schedule and was made possible by leadership from the Wayne County Airport Authority (WCAA), the body responsible for managing DTW. Activities included a presentation from WCAA management, during which they outlined their organization and the airports they manage, a comprehensive tour of the property (which meant driving across the ramp, taxiways, and active runways), and interaction with Airport Rescue and Fire Fighting (ARFF) personnel and their facilities, as well as a behind-the-scenes look of the airport's public safety and security headquarters.

Detroit Metro is recognized as one of the busiest airports in the world, serving as a hub for Delta Air Lines. An average of over 90,000 domestic and international passengers travel through it every day, according to information provided on the WCAA's website.



"Detroit Metro was a truly wonderful experience. It really allowed us to see the infrastructure required for the complex operation of running a major hub efficiently and effectively," Purdue AAAE member Micah Ito, a sophomore in aviation management, said.

After a busy few hours full of all that DTW had to offer, the tour was completed with a meal provided by the WCAA, allowing the AAAE members to depart with a memorable experience and full stomachs.

"I think it's safe to say that the trip definitely exceeded the expectations of all those in attendance, making it well worth the drive. We're very grateful to the WCAA for all their hard work and hospitality," Purdue AAAE vice president David Spicer, a senior in aviation management, said.

The WCAA also provides summer internships for students studying aviation and related fields. A list of requirements and an application can be found on their website, [www.wcaa.us](http://www.wcaa.us).

The primary mission of the Purdue chapter of AAAE is to foster the development of aviation professionals through active engagement in various opportunities, ranging from professional networking and facility tours, to the recruitment of guest speakers who actively work within the aviation industry. While primarily aviation management students, the organization also has members studying professional flight technology and aeronautical engineering technology, as well as members pursuing graduate and non-aviation degrees.

## Aviation Technology Student Council decorates the holiday Tree

It's beginning to look like the holidays around the Niswonger Aviation Technology building! The tree in the atrium is adorned with lots of beautiful decorations and white twinkie lights. Thank you to members of ATSC for making the building full of holiday cheer.





## STUDENT SPOTLIGHT

### Alyssa Harvey | Professional Flight



Alyssa Harvey is originally from Crown Point, IN, where she graduated from Crown Point High School. She became interested in aviation halfway through her senior year of high school, when she participated in her school's internship program and began working as an intern at Griffith Aviation. While there, she coordinated logistics related to the flight school and helped in the office. Soon after she began work, a flight instructor asked if she'd like to go flying with her. This was Alyssa's first experience in a small plane. She even got to take the controls for a bit and she loved it. From that point on she knew that she wanted to be a pilot. Alyssa says: "I love flying because it broadens your horizons. You get to travel and experience new things." Flying also allows her the opportunity to give other people those same experiences.

Alyssa is a junior in the School of Aviation & Transportation Technology studying professional flight with a minor in Spanish. She is an active member of the Women in Aviation (WAI) organization. During the spring 2016 semester, she ventured to Nashville, TN, with other WAI members to attend the National Women in Aviation conference. Alyssa also served on the committee for the Girls in Aviation Day, held in September, which was the first ever for Purdue. She was recently awarded the Greg Sweeny Memorial Scholarship award from the Aviation Association of Indiana. When she's not flying or studying, she likes to play golf and work out. She's also active at Campus House, where she serves on the Global Connect Council, which reaches out to international students. After graduation, Alyssa aspires to fly for an airline or corporation.

#### Why I chose Purdue:

Purdue is a big school with lots of choices for students.

## STUDENT SPOTLIGHT

### SOUTHWEST AIRLINES DONATES ENGINE

On November 11, 2016, during a ceremony in Hangar 1 of the Niswonger Aviation Technology building, Southwest Airlines generously donated a DFM56-3B engine used on the Boeing 737-500 series aircraft. Southwest Airlines representatives Amanda Gowers, Sr. Manager, Powerplant Supply Chain Management; Brianne Van Abeele, Strategic Sourcing Analyst, Powerplant Supply Chain Management and Purdue Alum; and Alton Lynch, Sr. Analyst, Powerplant Supply Chain Management, presented the engine to John Mott, Interim Head of SATT, and Professor J. Mike Davis. The engine will be utilized by aviation students, particularly aeronautical engineering technology students, in their lab work.





# December Grads!

***Don't forget to let us know your plans. Fill out the CCO's "First Destination Survey"***



## Able Flight Purdue

by Wesley Major

Purdue University has been removing barriers and creating access to aviation since the days of Amelia Earhart and continues to do so today through the Able Flight program. Able Flight Purdue is an intensive flight training program for people with disabilities. Every summer disabled individuals from across the country live on campus and train at Purdue's prestigious flight facility, utilizing the knowledge and resources found in its rich aviation history.

This summer had eight individuals participate, the biggest class yet. It included seven people who use wheelchairs due to the effects of injuries and a young woman who is deaf. These individuals are held to the same rigor and standards as any other pilot operating in the United States' airspace. Another milestone this summer happened when Purdue University received their very own adaptive aircraft. A Sky Arrow L600 fitted with hand controls is now a part of Purdue's already impressive fleet opening the possibility of training disabled individuals year-round.

While the program culminates with disabled individuals earning a pilot certificate, the impact is greater. Able Flight's mission is to offer people with disabilities a unique way to challenge themselves through flight and aviation career training, and by doing so, to gain greater self-confidence and self-reliance. Purdue University has licensed 36 disabled pilots!

If you would like more information about the Able Flight Purdue program, please contact Professor Bernard Wulle at [wulleb@purdue.edu](mailto:wulleb@purdue.edu).



## ALUMNI SPOTLIGHT

### Scott Niswonger | Chairman and CEO for Forward Air Corporation and Landair Corporation



Scott Niswonger is a graduate from Purdue University with a degree in Aviation Technology and received an honorary doctor of technology in 2004. He also holds a BSBA from Tusculum College and a Doctorate of Human Letters.

Scott currently serves as chairman emeritus of Forward Air Corporation, FWRD, and executive chairman of Landair Transport, Inc. which he co-founded. He is also a member of the executive committee and board of directors of First Horizon National Corporation, FHN. He is the former chairman of Economic Development and served as chairman of Homeland Security Foundation for the State of Tennessee.

In 2001, Scott established The Niswonger Educational Foundation of which he is especially proud. The foundation was created to provide opportunities to individual and regional growth through educational programs, scholarships, and other charitable activities. There are currently 21 Niswonger Scholars in universities across America and 61 alumni. He is also the lead benefactor for the Niswonger Children's Hospital and a board member of Mountain States Health Alliance comprised of 14 hospitals located in Northeast Tennessee and Southwest Virginia..

Scott is a generous donor to Purdue and involved in many aspects of the aviation program. In 1999, the Holleman-Niswonger Simulator Center was dedicated and in 2009, he was honored for his support as Purdue dedicated the state-of-the-art Niswonger Aviation Technology building at the Purdue airport.

Scott is married to Nikki, has four children and seven grandchildren. He loves flying, boating, and, when time allows, golf.

## BOILER UP!

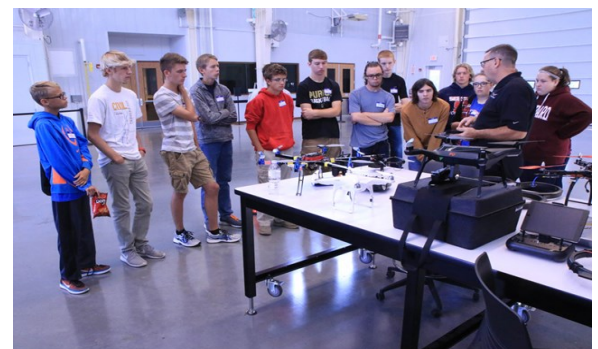
## ALUMNI SPOTLIGHT



### AG and Unmanned Aerial Systems Meet

Professor Michael Leasure, with the assistance of aviation students Megan Schaffer and Derek Lamonte, hosted a four-hour seminar on the uses of unmanned aerial systems in agriculture. This gathering was sponsored by Plant Sciences at Purdue, was held in the new Phenotyping Facility at ACRE, and was in support of National Youth Science Day. The attendees were 16 4H members from area high schools with an ex-

pressed interest in STEM related activities and applied technology. The day included talks, demonstrations, and hands-on flight training with unmanned aircraft. Infrastructure and agriculture lead the areas of application for unmanned systems in the U.S. and are projected to be a multibillion dollar industry in the near future.





# AVIATION STUDENTS RECEIVE SCHOLARSHIPS

## Aviation Association of Indiana Awards Scholarships to Purdue SATT Students

Aviation Association of Indiana (AAI) has been an advocate for aviation since 1983 and represents all regions of Indiana by providing a network for all aspects of aviation. The AAI Scholarship Fund, Inc., is a non-for-profit corporation, the exclusive purpose of which is to conduct a Scholarship Award Program for College Students enrolled in an Aviation Technology Department of an Indiana College or University.

The recipients of the scholarships are selected on the basis of outstanding academic achievement and as further having an unmet financial need. Each prospective recipient is nominated by the aviation technology department head of the various Indiana colleges and universities. The applicant nominations are submitted to the board of directors of the AAI Scholarship Fund, Inc., whose board sits in review and examination for final selection of the students to be given a scholarship award. Relatives of members or members of AAI Scholarship Fund, Inc., are not eligible for the award.

The criteria and qualifications for nomination as an award recipient are:

1. The applicant must be a graduate of an Indiana High School, and
2. Be enrolled in one of the university aviation programs in the state,
3. Be enrolled for the junior year of a four-year program, or enrolled for the second year of a two-year program at the time of the award,
4. Must have an average or better university academic record,
5. Should have participated in extracurricular activity or work activity,
6. May not be the child of a member of the Aviation Association of Indiana, Inc, or the AAI Scholarship Fund, Inc.,
7. Must have an unmet financial need. This requirement is met by certification by the nominating faculty. No financial reports are required.

This year Purdue had five scholarship winners:

Megan Ley: Anderson/Beall Memorial Admin

Tyler Housholder: AAI SFI Admin Rotating Memorial: Bob McCammon, Jim Torphy, and Gene Carroll

Megan Shaffer: James Rardon Memorial Maintenance

Colten Palmer: William R. Mullen Memorial Flight

Alyssa Harvey: Greg Sweeny Memorial Aviation Scholarship

## RESEARCH

### Leasure Honored With Seed For Success Research Award

Michael Leasure, associate professor of aviation technology, was honored as a co-principal investigator for Automated Sorghum Phenotyping and Trait Development Platform project. The \$6.5 million project is funded by Energy Advanced Research Projects Agency.

Six other Purdue professors were also awarded the Seed For Success Research Award.



# PROSPECTIVE STUDENTS

## ABOUT THE SCHOOL

The School of Aviation and Transportation Technology is widely recognized as a leader in aviation education. As a student, you will learn from faculty with rich industry experience and ongoing research that will improve the future of aviation.

From aerospace data analytics to NextGen aviation research, the focus areas of the school produce outstanding graduates with a unique set of knowledge and skills that differentiates them as leaders in the aviation and aerospace industry. A part of the school's success is its top-of-the-line fleet that includes more than 30 aircraft and several Flight Training Devices.

Seven undergraduate majors are offered:

### AERONAUTICAL ENGINEERING TECHNOLOGY

Airplanes are complex mechanical marvels, designed and constructed by individuals from many different disciplines. A degree in aeronautical engineering technology will provide you with the skills and knowledge to create and maintain these machines as well as improve the quality of life for those who depend on and use them. Over the course of the program you will learn how to design, manufacture, maintain, operate and support all varieties of aerospace vehicles.

### AVIATION MANAGEMENT

While thousands of airplanes navigate the world's skies on a daily basis, operations on the ground – at airports, airlines, air traffic control facilities, and more – help ensure passenger safety, efficient logistics and healthy business practices. For these roles, the industry requires knowledgeable individuals with excellent critical thinking skills. Your courses will help you gain the knowledge and skills to be an important asset within the complex aviation industry.

### AEROSPACE FINANCIAL ANALYSIS

The business side of the aviation industry is wide ranging. From aircraft leases to fuel options to route efficiency, you will gain the expertise necessary to bridge the knowledge gap between airline operations professionals and their financial counterparts. Industry leaders are asking for more experts in aviation and aerospace finance as their contracts become more complex, their leases more numerous, and their capacity more constrained. This is one of only a few programs in the country focused on this topic.

### PROFESSIONAL FLIGHT TECHNOLOGY

A bachelor's degree in professional flight technology provides a larger perspective of the aviation industry. Your classes will range from how an airplane is built to decision-making in the airline industry. Later, you may have opportunities to gain valuable experience flying Purdue administrators on official University business.

- AABI Accredited
- Part 141 Flight Program
- Qualifies for R-ATP (1000 vs. 1500 hours)

### AIRLINE MANAGEMENT & OPERATIONS

Managing an airline includes scheduling, planning networks, aircraft maintenance, staffing, customer service and more. You will gain the expertise necessary to navigate these aspects of managing an airline. Your courses will provide insights into how the world's airlines make daily business decisions.

### UNMANNED AERIAL SYSTEMS

Drones, or unmanned aircraft, are rapidly becoming a part of everyday life. Companies who adopt this technology will need experts to help them navigate flight paths as well as rules and regulations. In fact, the Association for Unmanned Vehicle Systems International believes 70,000 new jobs will be created in the three years after unmanned aircraft are integrated into the U.S. airspace system. You will learn about the different aircraft, how they are built and how they work. You will explore how they fit into the larger aviation system, including safety policies and regulations.

### AIRPORT MANAGEMENT & OPERATIONS

Managing an airport includes security, customer service, knowledge of federal regulations, baggage handling, staffing and more. You will gain the expertise necessary to master the many aspects of operating an airport. Your courses will provide the foundation for making long-range business decisions and reacting to immediate needs.

### HISTORY TIDBITS

- 1911**—1st Purdue Aviation Day
- 1930**—Airport consists of a windsock and emergency landing strip
- 1934**—Purdue Airport opens
- 1935**—Amelia Earhart joins faculty
- 1937**—Amelia Earhart disappears in her Purdue-owned Lockheed Electra
- 1960s**—Purdue Airlines in existence

### GRADUATE DEGREES

- Combined B.S./M.S. that can be completed more quickly than both degrees separately
- M.S. in Aviation and Aerospace Management
- Ph.D. in Technology with a focus in aviation



### Aeronautical Technology: Engineering and Maintenance (ATEaM)

ATEaM is an organization for students who have a shared interest in aerospace design, manufacturing, and maintenance. While open to all majors, the primary focus is to help students further their knowledge gained from the aeronautical engineering technology (AET) program, specifically in areas related to Airframe and Power plant. The other goals of this group are to provide student opportunities for engagement with industry, service to the University, and enhancement of camaraderie for students with interest in the disciplines related to the AET program. The organization was founded in 2013 by Seth Chambers and Emily Thomas.

Examples of past activities and events:

Spring semester 2016—10 members visited Rolls Royce Indianapolis to get a tour of the F-35 Lift fan production and a roundtable discussion with various senior level managers.

Fall 2016—provided transportation to Red Bull Air Race in Indianapolis, organized a student-led study group for anyone preparing for the Airframe & Power plant exams.

Social events are also hosted annually for members with free food and drink.

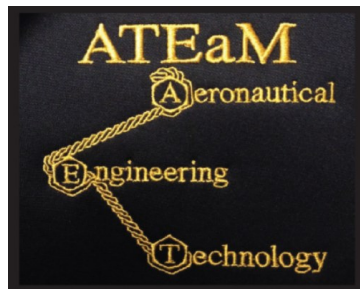
President: Will Seltenright

Vice President: Jacob Merk

Treasurer: Cassie Crawford

Secretary: Susanne Stalker

The group (pictured below) visiting Rolls Royce.



#### 2016-2017 Lead Ambassadors

- Colin Gifford, Professional Flight, Co-President 2016-2017
- Max Enis, Professional Flight, Co-President 2016-2017
- Abbie Ijams, MS in Aviation & Aerospace Management, Secretary 2016-2017

#### 2016-2017 Ambassadors

- Austin Decker, Unmanned Aerial Systems
- Ben Bushnell, Professional Flight
- Cathy Troyer, Professional Flight
- Christopher Konecnik, Professional Flight
- Ekin Bakkal, Aviation Management
- Emily Linenkugel, Aviation Management
- Evan Hockridge, Unmanned Aerial Systems
- Evan Reese, Professional Flight
- Isaiah Papineau, Professional Flight
- Jack Smith, Professional Flight
- Jordan Welch, Professional Flight
- Josh Stanton-Savitz, Professional Flight
- Matthew Padrick, Professional Flight
- Mike Mueller, Aviation Management
- Rob Banta, Professional Flight
- Rob Kiszka, Professional Flight
- Kyle Jackson, MS in Aviation & Aerospace Management
- Aaron Wall, Aviation Management
- Aleski Goulet, Professional Flight
- Avinash Saligrama, Aeronautical Engineering Technology
- Bailey James, Professional Flight
- Becca Lax, Professional Flight
- Coery Cavin, Professional Flight
- Curtis Bouchie, Aeronautical Engineering Technology
- Cooper Burleson, Aeronautical Engineering Technology
- Cullen Fisher, Professional Flight
- Garret Ross, Professional Flight
- Gatlyn Ligon, Professional Flight
- Joe Hammel, Unmanned Aerial Systems
- Josh Larson, Professional Flight
- Kenneth Zollars, Professional Flight
- Kevyn Ezzo, Aeronautical Engineering Technology
- Kolby Oliver, Professional Flight
- Manfred Wong, Professional Flight
- Mason Edwards, Professional Flight
- Micah Ito, Aviation Management
- Michael Palermo, Professional Flight
- Michael Rastovic, Professional Flight
- Naveen Breen, Professional Flight
- Olivia Lynch, Professional Flight
- Peter Domenichella, Professional Flight
- Ryan Long, Professional Flight
- Samantha Fargo, Professional Flight
- Sebastian Ponce, Aviation Management
- Jake Marino, Professional Flight
- Sean Gau, Professional Flight
- Brandon Rose, Professional Flight
- Matthew Chow, Professional Flight
- Nina Bouthier, Professional Flight
- Michael Yu, Professional Flight
- Vicki Gilbert, Staff Advisor

# DECEMBER GRADUATES!

## *Congratulations!*

Robert H. Banta

Adriana M. Bendeck Rodriguez

Morgan T Browne

Phillip J. Brunner

Heather N. Burton

Christopher D. Caudill

Mayra J. Cervantes-Zamora

Dennis W. Chan

Kin Lok Ryan Chan

Wei Yin Chia

Younguk Choi

Logan M. Coffman

Colin D. Colclasure

Reece B. Creekmore

Jacob J. Davis

Chae R. Douglas

Joshua K. Ehrman

Andrew B. Evans

Connor R. Garrett

Matthew D. Groh

Matthew Hardiman

Kevin P. Harrington

Tyler R. Housholder

Alex M. Isgrigg

Linfeng Jin

Xiaojian Jin

Martin N. Kmau

Oskar J. Kane

Rishika R. Kesavaram

Austin J. Kirk

Wesley M. Lai

John R. Ledene

Ching hei Lo

Thomas J. Longcoy

Jonathan D. Lorenzini

Jonathan D. Lutes

Pablo A. McGuire

Caleb D. Morgan

Nathan C. Nagel

John F. Ohmberger

Anthony J. Petraglia

Narit Podhipak

Matthew R. Price

Colin M. Rekis

Rebecca L. Russell

Yvonne N. Shin

Peter A. Slabaugh

Andrew A. Stuff

Marthinus J. Taljaard

Yinglun Tang

Marc R. Taylor

Michael J. Thanos

Nathaniel W. Tilley

Molly F. Van Scoy

Yu Wang

Benjamin F. Warden

Nicholas L. Weidow

Martin F. Zorrilla





# Purdue Aviation History



In 1935, Amelia Earhart was invited to join Purdue as a visiting counselor for women students. She loved her role, and the University, and developed what she called her "Flying Laboratory" at the university: a Lockheed Electra twin-engine airliner. She had the seats removed and extra fuel tanks put in their place. With these changes the plane had a fuel capacity of 1204 gallons, which gave it a range of 4,500 miles.

In the 1940s, the Aeronautical Engineering School developed a four year non-engineering program in Air Transportation.

This program with options in flight, maintenance, and management utilized the university owned airport and aircraft as a laboratory. Included in these resources was Purdue Aeronautics Corporation, which operated the airport and a fleet of DC-3 aircraft.





# THE FLYER

**Fall 2016**

*A newsletter for students, alumni & friends of the School of Aviation & Transportation Technology*



## School of Aviation & Transportation Technology

Purdue University  
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