PURDUE AVIATION & TRANSPORTATION TECHNOLOGY

Fall 2015

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



Aviation Technology becomes the School of Aviation & Transportation Technology

SATT undergrads compete yearly with other female pilots in the Air Race Classic. Natalie Butler and Molly, VanScoy competed for their first time in June 2015.

OCTOBER 9, 2015

The Department of Aviation Technology in the Purdue Polytechnic Institute has been renamed the School of Aviation and Transportation Technology effective immediately. The change was approved by the Purdue University Board of Trustees at its October 9 meeting in West Lafayette.

"As we plan for future growth of our programs and aviation operations, creating a school structure makes sense to provide better collaboration, utilization of resources and visibility," said John Wensveen, Professor and Head of the School.

Within the last year, Aviation Technology has experienced growth in both the academic and operations sides. Its list of undergraduate majors has grown to seven, including new offerings in unmanned aerial systems, aerospace financial analysis, airline management and operations, and airport management and operations. It also became part of the new Purdue Research Park Aerospace district, which expanded the school's ability to create research and other industry partnerships. As part of the deal, Purdue acquired the local fixed-base operator, now called Purdue Aviation, LLC. Its operations can be incorporated into the curriculum.

According to Wensveen, that is just the beginning. The school is working on plans that allow students to complete their degrees in a shorter timeframe.

IN THIS ISSUE

You're cleared for takeoff! SATT in the news Faculty & staff updates Research leads the way Students in action Partnerships & industry engagement Alumni connections Student organizations make an impact

Continued on page 2

Prospective students



"You're cleared for takeoff!"

Dr. John G. Wensveen

HEAD OF SCHOOL & PROFESSOR

Watch Dr. Wensveen's weekly "Cleared for Takeoff" video update on the Purdue Aviation & Transportation Technology YouTube Channel! He addresses the latest news from his mobile movie studio to give you the latest news and information as it relates to students, alumni, faculty & staff, our friends and industry partners.

A message from our Head of School

Greetings! Welcome to the second edition of THE FLYER! As the 2015 year comes to an end, I would like to take this opportunity to provide some updates on the School of Aviation & Transportation Technology (SATT). The big news is that we are now a school having evolved from the Department of Aviation Technology to the School of Aviation & Transportation Technology. Last October, the Board of Trustees approved the change in status allowing SATT to pursue new growth opportunities within air transportation and potentially beyond (i.e., air, road, rail, water, pipeline, space). When I started my position as Head of Aviation Technology in July 2014, I was tasked with creating a vision for the long-term future followed by an implementation plan. The first few months of my tenure was focused on a thorough due diligence exercise to identify new opportunities of growth. I concluded, the department had a solid foundation with a rich history of successes and needed to pursue new opportunities resulting in the continued evolution of aviation.

On a global basis, the aviation industry is facing many challenges when it comes to creating talent pipelines for the future. All too often, higher education dictates to industry what their needs are rather than listening to what their needs are. As a result, an innovative education, training, and research model, known as iPOP[™] (Industry-Purdue Opportunity Pipeline), has been created. SATT has been fortunate to have strong ties with industry on a national level and now, we are strengthening those relationships and building new partnerships with the air transportation industry on a global basis. SATT is working with industry partners to provide new opportunities for our students, faculty, and staff. The iPop[™] model is based on industry partnerships with the creation of a branded entity between SATT and individual partners and their supporting units. Industry partners will include airlines, airports, aircraft manufacturing companies, engine manufacturers, flight training organizations, simulation manufacturing organizations, government agencies, and industry trade associations. Physical and virtual learning environments are created providing education and training to Purdue students and employees at the industry partners via two pipelines (Purdue Student Pipeline and Industry Partner Pipeline). The ultimate goal is to provide students with project-based learning, exposure to leading edge technology, defined career tracks, affordability and accessibility, decreased fees, educational funding opportunities, networking, and placement opportunities. Industry partners have an opportunity to train, educate, retain, and promote graduates of SATT programs while reconnecting with higher education.

2014/15 was a year of successes for SATT including, but not limited to, the following:

- Evolved from a Department to a School;
- Developed and implemented the iPOP[™] model;
- Enhanced industry partnerships;
- Established new industry partnerships;
- Founding partner of the Air Transport and Aeronautics Education and Research Association (ATAERA) with eleven universities around the world;
- Tripled research to \$3.9 million from \$1.23 million over previous year;
- Created a targeted recruitment, placement, and events strategy resulting in increased enrollment;
- Creation of four new majors (Airline Mgmt. & Operations, Airport Mgmt. & Operations, Aerospace Financial Analysis, Unmanned Aerial Systems);
- Offering of a one year Master in Aviation & Aerospace Management;
- Proposal for a new Ph.D. in Air Transportation;
- Restructured the SATT Student Ambassador program;
- Spearheaded effort to acquire Lafayette Aviation (FBO) renamed as Purdue Aviation, LLC;
- Assisted with development of Purdue Research Park Aerospace District.

As we enter 2016, SATT will focus energy over the next academic term on the recent changes that have occurred with a mission to work with industry partners on a global scale to provide career opportunities for SATT students. Over the coming years, SATT students will have increased opportunities to work with industry in the classroom, in the laboratory, and at industry locations within their global network. Internship opportunities will be expanded alongside research initiatives involving undergraduate and graduate students. The iPop[™] model will assist in driving the above with a major focus on accelerating the learning process and decreasing the cost of education for SATT students. Thank-you to all of the SATT students, faculty, staff, alum, and industry partners for a great 2015 and I look forward to working with you in 2016. *Happy New Year!*

THE FLYER

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

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Newsletter Editor

Casey Hendrickson

WE WANT TO HEAR FROM YOU!

Please connect with us at aviation@purdue.edu to let us know what you're up to

ALL SATT NEWS: https://polytechnic.purdue.edu/at/news





Rolls-Royce first business to take off at Purdue aerospace district

STORY BY CYNTHIA SEQUIN, PRF | SEPTEMBER 23, 2015 | Full story: http://www.purdue.edu/newsroom/releases/2015/Q3/rolls-royce-first-business-to-take-off-at-purdue-aerospace-district.html

Rolls-Royce is the first partner on the runway with Purdue Research Foundation in the recently established Purdue Research Park Aerospace District in West Lafayette, officials announced Wednesday (Sept. 23).

Pending board approvals, Purdue Research Foundation, which owns and manages the Purdue Research Park network, will construct a 40,000-square-foot facility in the new aerospace district to house the R&D group for Rolls-Royce and for other companies interested in aerospace and aviation development.

"We are pleased to be the first to join the Purdue Research Park Aerospace District and we see great potential in how it will continue to help us provide innovative solutions for our customers," said Denny Warner, an executive for Rolls-Royce. "The energy that is generated from the activities in the district and the proximity to Purdue's airport, and the aviation, engineering and technology programs will provide us with greater opportunities to conduct collaborative research with Purdue while we continue to advance our own work in jet engine development."

Name change continued

Traditional and research-based bachelor's degrees could be completed in three years instead of four. Master's degrees and doctorates also would have quicker completion times, including a three-year combined master's degree and PhD.

The academic enhancements are complemented by increased industry participation, which Wensveen said will benefit students, faculty and each industry partner. The school has created the Industry-Purdue Opportunity Pipeline, iPop for short, that will connect students in the aviation programs with a wide variety of aviation companies. Depending on the industry partner, students will be able to conduct research, participate in mentoring activities, or be placed in an employment track. Industry partners would also be able to take advantage of the educational programs offered by the school.

The expanded offerings show up outside of West Lafayette as well. The school will offer an aviation operations technology degree at Purdue Polytechnic Indianapolis, which will begin admitting students for Fall 2016 after a four-year hiatus. Students at the location will complete the final two years of a bachelor's degree program started at Vincennes University.

School leaders are also investigating ways to expand their reach and expertise to other modes of transportation, such as rail and maritime. Both industries, Wensveen said, could provide additional research opportunities and benefit from the technology perspectives of the curriculum.

"All of our efforts, including the change to a school, focus on the dual missions of addressing operational challenges within the industry while facilitating positive education outcomes for students," said John Mott, clinical associate professor and associate head of the school.

Farewell 'Alayna'

STORY BY WILL SELTENRIGHT, AERONAUTICAL ENGINEERING TECHNOLOGY STUDENT

The Boeing 727-100 was a donation to Purdue from FedEx in 2006. A large cargo aircraft, it was used as a training tool for each aviation major. Students practiced inspection and maintenance procedures, became familiar with cockpit controls and preflight procedures, run-up and taxiing, and learned safety precautions with large aircraft such as engine ingestion zones. Professor Mick coordinated the disassembly of the 727 this past summer/fall 2015. It was donated to the National Guard at Camp Atterbury for crash site training. The AET club, ATEaM, made t-



shirts in remembrance of the aircraft. The front of the shirt says *Alayna* which was the name of the 727 that was painted underneath the pilot's window. The back has the tail number and an outline of a 727. Shirts are now sold by the AT Student Store for \$20.



SATT Ambassadors join Dennis Warner, Rolls-Royce North America at the Aerospace on Campus Series

Aerospace on Campus

LIBRARY

READING

Aerospace executives spoke to Purdue Aviation & Transportation Technology as well as Aeronautics and Astronautics students as part of a Wings Club Aerospace on Campus Series. The event was designed to provide insight and an inside perspective on the dramatic changes underway in the aerospace, defense and aviation industries. The discussion included Dennis Warner, president of Rolls-Royce Controls and Data Services in North America; Greg Hamilton, president of Aviation Week Network; and John Croft, senior avionics editor, Aviation Week and Space Technology. The discussion also included the announcement of Rolls-Royce joining the Purdue aerospace district.

Purdue's flight students will save \$250,000 in course fees

OCTOBER 1, 2015

Purdue University professional flight students are receiving a \$795 reduction in semester fees as a direct result of an updated aircraft usage plan. The new fee structure is expected to save students \$250,000 over the next two academic years.

John Mott, Associate Head for the School of Aviation & Transportation Technology, assembled a team of Purdue researchers to collect real-time data on the university's fleet of Cirrus SR-20 aircraft. The team included Darcy Bullock, director of Purdue's Joint Transportation Research Program, and civil engineering graduate student Maggie McNamara. Last year, the researchers developed a method to collect data from the fleet's aircraft transponders. The data identified efficiencies that would allow better usage of the 16 planes.

Now, the fleet can accommodate 71 students in flight courses (up from 55). Increased enrollment lowers the program's overall costs. The plan will be extended to three additional classes. The combined savings to students will be \$250,000 over the next two academic years. Mott also is working with the Purdue Research Foundation to file a patent on the data collection and fleet management system. The plan to commercialize the system will assist other organizations in identifying cost savings.

ACADEMIC ADVISING | purdue.edu/advisors



Rose Delong-Bolyard

SENIOR ADVISOR

Advisor for: Professional Flight Technology; Unmanned Aerial Systems



Allen Reigel

ADVISOR

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



Gina Covarrubias

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).

Welcome new faculty & staff members!



Erika Budreau



Ronda Cassens* CHIEF FLIGHT INSTRUCTOR (*Newly appointed)



Emily Haygood



Casey Hendrickson RECRUITING, PLACEMENT & EVENTS COORDINATOR



Kristin Neary RECRUITING, PLACEMENT & EVENTS ASSISTANT FACULTY & STAFF | 4

FACULTY SPOTLIGHT



FACULTY SPOTLIGHT Professor J. Michael Davis

J. Michael Davis is an Assistant Professor of Aeronautical Engineering Technology in the Aviation Technology Department at Purdue University, West Lafayette. His teaching focus has been largely on aircraft power-

plant technology, aviation maintenance practices, aviation fuels, and related topics. He is the Area Director of test cell operations for the federally-funded National Test Facility for Fuels and Propulsion (NaTeF) and is Co-Chair and FAA Liaison for the Part 147 Aviation Maintenance Curriculum. In collaboration with several SATT faculty members and colleagues around the University, Prof. Davis has conducted research into the use and development of new, alternative aviation fuels for both piston engine and turbine (Jet) engine applications. Certifications: FAA Airframe & Powerplant certificate (A & P), FAA Private Pilot, Project Management Professional (PMP) and 6 Sigma Green Belt.



Watch Prof. Davis in action in the F109 Jet Engine Test Cell: https://youtu.be/zN7iVaT4nRY

2015-2016 LiveB1G: Purdue Hangar is the Future of Flight

Professor Tim Ropp's Hangar of the Future Research Laboratory is featured on the Big 10 Network.

Take a virtual tour of the *"coolest classroom in the country"* on the BTN LiveB1G YouTube channel with Professor Ropp and Amadou Anne.







#FUN FACT

Dr. Wensveen purchased a \$29 "selfie stick" at the recommendation of students to ensure his "Cleared for Takeoff" video could fit more faces in the background. Yes, our Head of School has a selfie stick! :) #awesome #purdueaviation #purdueaviators

Don't forget to follow SATT on our social media sites for the latest information and images.



U.S. Navy awards Purdue \$3 million to advance alternative energy-related research, course development efforts

STORY BY PURDUE NEWS | OCTOBER 6, 2015 | FULL ARTICLE: http://www.purdue.edu/newsroom/releases/2015/Q4/u.s.-navy-awards-purdue-3-million-to-

advance-alternative-energy-related-research,-course-development-efforts.html

Purdue University researchers will tackle several alternative energy-related projects for the U.S. Navy and develop a power and energy course through a grant of nearly \$3 million from the Office of Naval Research.

The Navy Enterprise Partnership Teaming with Universities for National Excellence (NEPTUNE) will support the launch of Purdue's NEPTUNE Power and Energy Research Center and seven research projects along with the new course, which will begin in spring 2016 at Purdue.

"As a leading research institution with engineering, technology and scientific strengths in many areas of energy, Purdue is proud to contribute in any way we can to our national security and those who give of themselves to ensure it," said Purdue President Mitch Daniels. "These research and learning efforts will build on the more than 600 research projects valued at \$80 million that Purdue and the Navy have partnered on during the past decade."

The Office of Naval Research is providing \$2 million over two years to fund the NEPTUNE project. The Purdue-Navy projects are the outgrowth of a memorandum of understanding signed by Navy Secretary Ray Mabus and Purdue President Daniels in 2014.

"Three of my key strategic goals are Take Care of Our People, Lead the Nation in Sustainable Energy and Drive Innovative Enterprise Transformation," Mabus said. "NEPTUNE will advance all of these by simultaneously supporting world-class energy research and professional education for our military personnel.

Aviation students win research awards at UAA

Two Purdue research projects won awards at the 2015 University Aviation Association (UAA) Fall Education Conference in Snowbird, Utah, in early October.

Wesley Major, a graduate student in aviation and aerospace management, placed first in the graduate student poster contest. His project was titled "General Aviation Pilots and their Use of Weather Technology as it Correlates with Age."

A group of aviation graduate students from two universities placed third in the same contest. Their poster was titled, "Relationship Between Safety Culture Perceptions and Safety Reporting Behavior in Collegiate Aviation." The student researchers were Julius Keller and Micah Walala from Purdue and Kwasi Adjekum from the University of North Dakota. Keller presented the research on behalf of the team.

Leasure named "unmanned aerial facilitator" for Beck Agricultural Center

NOVEMBER 17, 2015

Mike Leasure, Associate Professor of Aviation Technology, has been appointed coordinator of unmanned aerial systems for Purdue University's new FAA certificate of authorization (COA) for agriculture.

In this role, he will supervise, train, and recruit qualified unmanned operators; maintain and revise the approved airspace certificate of authorization; and be a point of expertise for researchers interested in deploying unmanned aircraft for agricultural research.

Corben Meyer prepares a fixed wing, autonomous aircraft for data acquisition with hyperspectral camera (Photo by Mike Butram)



During the summer, Leasure supervised and worked alongside two unmanned operators from the School of Aviation and Transportation Technology on a research project focused on precision agricultural imaging. Students Evan Flatt and Corben Meyer, who are both experienced in unmanned systems, programmed, built, repaired and flew several aircraft, including rotorcraft and fixed-wing designs, for the project. The flights helped collect data in several formats to help scientists understand the productivity and health of specific fields. The data included multispectral and hyperspectral images <link: http://gisgeography.com/multispectral-vshyperspectral-imagery-explained/>, normalized difference vegetation index (NDV) information, and georeferenced color photos.

The agricultural research will include an expansion of datagathering capabilities in Summer 2016, Leasure said. Student researchers are being recruited and trained through the unmanned aerial systems major <Link: https://polytechnic.purdue.edu/ degrees/unmanned-aerial-systems > and minor offered by the School of Aviation and Transportation Technology.



STUDENT SPOTLIGHT Molly VanScoy | Junior, Aviation Management

Molly grew up around a local airport in Pennsylvania, surrounded by her family of aviators. She began flying when she was thirteen! After her first official flight lesson, Molly knew she wanted to be a professional pilot. Her dedication to aviation led her to Purdue University where she decided to broaden her knowledge of aviation by majoring in Aviation Management.

Now a Junior, over the past three years Molly has participated in research, leadership, and student organizations that have enabled her to not only gain valuable knowledge, but make many new friends along the way. This past summer Molly was a Flight Operations Intern at Delta Air Lines. She worked closely with fleet managers, the pilot support center, and operated a Boeing 777 Full Flight Simulator. She is currently President of the Purdue Chapter of Women in Aviation, Captain of the Purdue Air Race Classic Team, and Vice President of The Aviation Technology Student Council. Molly was recently accepted into the 3+2 masters program. She will begin her graduate classes next semester. Upon graduation, Molly hopes to fly for a regional airline, move on to a major air carrier, and continue to inspire the next generation of aviators.

STUDENT SPOTLIGHT

SATT Students, Faculty & Staff visit Seattle, Raisbeck Aviation High School & Pathfinders Gala

Aviation and Transportation Technology visited Seattle, WA to attend the Pathfinder's Gala at the Boeing Air Museum to honor distinguished leaders in the aviation and aerospace industry. The group was also invited to attend a reception at Dr. James Raisbeck's home and received a grand tour of the Raisbeck Aviation High School. The visit was not only an invaluable opportunity for networking for Purdue students, but also for recruitment and high school outreach.

Students pose for a photo in front of the amazing display of aircraft at the Pathfinder's Gala held in the main plaza of the Boeing Air Museum





Students sponsored by Southwest Airlines attended Wings Club luncheon in New York featuring Gary Kelly, CEO

A group of seven Southwest Airlines interns and ambassadors attended the Wings Club luncheon in New York in December to hear industry insight with Gary Kelly, CEO of Southwest Airlines. Students also visited historic sites including the Freedom Tower and 911 memorial, Grand Central Station, Rockefeller Plaza, the New York Stock Exchange and Times Square.



Picture left:

Students enjoy networking and industry engagement at the Yale Club at the Wings Club December Luncheon

Picture below:

Students, faculty and staff meet with Gary Kelly following the luncheon to thank him for the luncheon sponsorship and amazing opportunity



SATT CAREER FAIR:

Thursday, February 4, 2016

Companies can register to exhibit via the following link:

https://polytechnic.purdue.edu/schools/aviation-andtransportation-technology/career-resources/aviationand-transportation

Purdue helps form global aviation education network

NOVEMBER 13, 2015

The School of Aviation and Transportation Technology at Purdue University is one of 11 partners from around the world that have agreed to form a new global network for aviation education: the Air Transport and Aeronautics Education and Research Association (ATAERA).

The agreement provides avenues to expand the breadth of knowledge available to students and the opportunities for research and projectbased partnerships. For example, the research and educational strengths of each institution can be shared instead of duplicated to provide a more robust educational experience for students.

"The ATAERA partnership provides an instant network of aviation higher education institutions and industry organizations that were previously not accessible on this scale," said John Wensveen, Head of the School of Aviation and Transportation Technology. "Each of the participating universities has its own network that will now be open to all participants. Additionally, students in our program will have opportunities to assist programs overseas developing and implementing solutions to real-life industry challenges on an international scale."

International experiences will be important in ATAERA. Faculty and students will be able to increase their exposure to global experiences, which will help students prepare for international careers and faculty stay current with industry developments.

The participating institutions will explore joint research and educational programs, focusing on innovative applications. Their partnerships will also reach to companies in aviation industry, including aircraft manufacturers, airports, airlines, air navigation organizations and aircraft maintenance companies.

In addition to Purdue, ATAERA partners include Amsterdam University of Applied Sciences (the Netherlands, University of Zilina (Slovakia), Vives University College (Belgium), Zurich University of Applied Sciences (Switzerland), IUBH International University of Applied Sciences Bad Honnef –School of Business and Management (Germany), Aeronautical University on Querétaro (Mexico), Coventry University (United Kingdom), Instituto Superior Technico (Portugal), Institute of Technology Carlow (Ireland), and Embry-Riddle Aeronautical University-Worldwide (USA).

The founding members expect other academic institutions to join the partnership in the future. Students should see the benefits of the partnership beginning with the 2016-17 academic year.





ALUMNI SPOTLIGHT Rob McKinney | President & CEO, SeaPort Airlines

Rob McKinney has over a decade of experience in senior management at commuter airlines. He has an extensive background in flight ops, maintenance, aviation security, and government relations. Mr. McKinney began his career at SeaPort Airlines, Inc. as the first employee and Chief Operations Officer; he was then promoted to President in February of 2010, and continues to lead the company as the CEO. Rob remains current as a line pilot, company instructor, and check airman. As a licensed pilot, Mr.McKinney has flown everything from movie stars in Learjets to kitty litter in the Caribbean.

Mr. McKinney spearheaded the conversion of Mokulele Flight Service in Hawaii from a local air tour company to a commuter airline. Although starting with SeaPort in Portland, he moved to Memphis in 2009 to begin the airline's Mid-South hub, later returning to the Pacific Northwest. The entire SeaPort Airlines operation currently includes nine states and 21 destinations.

Being raised in a town of 2,500 people in Indiana, Rob has a special connection with rural communities. It was this dedication that prompted him to guide SeaPort to focus on connecting rural communities to the national transportation network and become a significant contributor to the Essential Air Service program.

Mr. McKinney has a BS degree in Aviation Technology from Purdue University and an MBA from Ellis College. Mr. McKinney lives in Vancouver, WA with his wife of 10 years, Jane. He lives and breathes aviation every day.

ALUMNI SPOTLIGHT

Purdue alum honored to fly 'Shepherd One'

Tom Murray, a 1982 professional flight alumnus, was the first officer on all four legs of the chartered flight for Pope Francis's tour of the United States in early October.

The assignment is the latest for Murray during a long career in the Air Force and at American Airlines. A decorated veteran of Desert Storm, he was a captain in the U.S. Air Force, where he was a C-141 Aircraft Commander. At American Airlines, he has been a captain on Boeing 727, 767, and 777 as well as the Airbus 300. He has also served as check airman and international standards coordinator on the Boeing 777 and Airbus 300.



Murray says his Purdue experience was a great start to his career.

"The staff and professors are excellent," he said. "The simulators, flight and mechanic labs were perfect for a military and airline career. Having Purdue airport and all those facilities right there is an exceptional resource."

Murray and his wife, Donna, have three children.



Congratulations, December Graduates!

Juan P. Angarita, Professional Flight Technology Morgan T. Browne, Professional Flight Technology Natalie Butler, Professional Flight Technology Jesse P. Elsner, Professional Flight Technology Taylor W. Ferrel, Professional Flight Technology Eric D. Fought, Professional Flight Technology Laura M. Hite, Professional Flight Technology Ava Liang, Professional Flight Technology Ryan T. Mizoguchi, Professional Flight Technology Cory L. Morgan, Professional Flight Technology Evan E. Semerad, Professional Flight Technology James C. Shawn, Professional Flight Technology Mathew W. Cussen, Aeronautical Engineering Technology Michael R. Farmer, Aeronautical Engineering Technology Joseph M. Friedl, Aeronautical Engineering Technology Aaron R. Goffinett, Aeronautical Engineering Technology Richard R. Hsia, Aeronautical Engineering Technology Molly A. Klopfstein, Aeronautical Engineering Technology Yiwen Liu, Aeronautical Engineering Technology Soraja Muhic, Aeronautical Engineering Technology Alexander D. Thill, Aeronautical Engineering Technology Edgar F. Torres, Aeronautical Engineering Technology Peter J. Waikel, Aeronautical Engineering Technology Matthew C. Zweige, Aeronautical Engineering Technology Presley Corich, Aviation Management Samuel H. Cowsert, Aviation Management Weiging Dai, Aviation Management Mark C. Fernandes, Aviation Management

Jared I. Fleischer, Aviation Management Numan E. Hadimioglu, Aviation Management Jacob A. Johnson, Aviation Management Adam K. Minkel, Aviation Management Eduardo, Munoz, Aviation Management Andrew Pak, Aviation Management Meagan F. Simmons, Aviation Management Alexander A. Stemper-Denvit, Aviation Management Griffin M. Tyner, Aviation Management

Master's Degrees: Patrick Canepa Kayla Corcimiglia Zenon Yang Amadou Anne Qidi Cao Luoshi Li Timothy Graham Craig Brown Douglas Lotter

FIRST

DESTINATION

SURVEY

URDUE CCO

Ph.D.: Julius Keller

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

PURDUE AVIATION & TRANSPORTATION

TECHNOLOGY

ATTENTION: STUDENTS. ALUMNI. FACULTY. STAFF. FRIENDS. COMMUNITY MEMBERS. KIDS. AVIATION ENTHUSIASTS...

Join us at the "second" annual **Purdue Aviation Day** on Saturday, April 16, 2016 at the Purdue University Airport! Aviation Day is a day-long showcase of the "past, present, and future" of Purdue's influence on the aviation industry. The event will take our annual Pancake Fly-In to a new level and we will provide an experience that aviation enthusiasts, industry partners and our local/ regional community can enjoy – we will even have a "young aviators" exhibit to inspire the next generation of aviation enthusiasts.

Cost: Free to the general public

Sponsorships are now being accepted. Please contact aviation@purdue.edu for more information



SATURDAY, APRIL 16, 2016

Student Organization Spotlight: Leadership & Entrepreneurship in Aviation at Purdue (LEAP)

Co-Presidents: Connor Duchen, Aviation Management and Chad Rachubinski, Aviation Management

Faculty Advisor: Dr. John Wensveen, Head of School, Aviation & Transportation Technology

Ever wondered what kinds of careers exist within aviation management? Leadership and Entrepreneurship in Aviation at Purdue (or simply "LEAP") aims to help students determine which opportunities in industry are the best fit for them. LEAP is a new student organization launching this spring to support students in the School of Aviation and Transportation Technology.

The purpose of LEAP is multi-faceted. First, it seeks to connect students in the School of Aviation & Transportation Technology programs with principled leaders in the aviation and aerospace industries. It also aims to help students learn more about the disciplines of airline management, revenue management, aircraft leasing, airline finance, and aviation business strategy through networking, experiential learning, and discussion of current events in aviation and aerospace. Members will develop personal and professional leadership skills to address future challenges facing the industry. In an effort to develop these skills, LEAP also plans to engage in joint ventures with industry to solve relevant aviation and aerospace problems.

Additionally, LEAP wants to help develop the future generation of aviation and aerospace entrepreneurs. That said, this upcoming semester we will be hosting an eight-week entrepreneurship workshop for our members. As part of this workshop, members will develop ideas to solve problems in the aviation and aerospace industries. Ultimately the plan is take an idea developed by members and launch a for-profit business in the fall.

Given that one of LEAP's core values is to increase the knowledge of our members in various aviation and aerospace disciplines, we plan to hold a monthly seminar series on various topics. So what's on the agenda for our spring seminar series? We will hold a seminar on aircraft leasing and fleet planning in February, one on revenue management and network planning in March, and finally a seminar on various airline business models in April.

Another core component of LEAP is to connect students with those in industry. That said we plan to setup a mentorship program. The goal is to pair a student with an interest in a particular discipline with a Purdue graduate in that discipline. For example, if someone is interested in revenue management, we will try to pair them with someone in a revenue management role at an airline. Are you an alumni interested in being a part of this mentorship program? Reach out to us at aviation@purdue.edu.

LEAP aims to be the premier developer of principled aviation and aerospace leaders. Join us for our callout on Wednesday January 20th at 6:00 P.M in Niswonger!

STUDENT ORGANIZATION SPOTLIGHT

Ambassadors & recruiters visit high schools in Indiana (and beyond)

The Aviation Ambassadors and recruiting team visited Noblesville High School in December to speak with Mr. Wilkins' Aerospace Class about Purdue Aviation & Transportation Technology. The students were engaged, excited and eager to hear more about entering the aviation pipeline.

Ambassadors have formed a "high school outreach committee" lead by Gabby Green (Aviation Management) to help spread the word about our programs and inspire students to pursue their passion.

If you would like the Aviation Ambassadors to visit your high school or a school in which you are affiliated, please email: *aviation@purdue.edu*



Student-led tours

The Niswonger Aviation Technology building and the Purdue University Airport is an active tour destination for prospective students and parents, industry partners, community visitors and more. The Aviation Ambassadors are responsible for touring our visitors through the various labs, classrooms and areas of interest to ensure that we spread the word about our amazing programs. During a tour, visitors can expect to learn about Purdue's rich aviation history, our seven majors, our fleet, simulators, research and job placement opportunities.

Recently, Scott Niswonger stopped by with his team to tour the campus with two Ambassadors, Rob Kiszka (Professional Flight) and Austin Decker (Unmanned Aerial Systems). In turn, the students were also able to tour his G-IV! Not a bad day as an Ambassador...

Come visit us!

WEEKLY TOURS

Mondays and Fridays*at 1-2:30pm (*some dates unavailable)

Sign up: https://purdue.qualtrics.com/SE/?SID=SV_1QXxcx3hGnp2KW1



2015-2016 Ambassadors

Thank you to our *outstanding* Aviation Ambassadors for your continuous support of the School of Aviation & Transportation Technology. Ambassadors are the face of the School and deserve credit for their hard work and passion of Aviation and Purdue. Great job!

2015-2016 Lead Ambassadors

- Nathan Tilley, Professional Flight, Co-President 2014-2015
- Austin Decker, Unmanned Aerial Systems, Co-President 2015-2016

2015-2016 Ambassadors

- Juliana Baluh, Aeronautical Engineering Technology
- Justin Beam, Professional Flight
- Adriana Bendeck, Professional Flight
- Paul Brown, Aviation Management
- Ben Bushnell, Professional Flight
- Connor Duchen, Professional Flight
- Gabby Green, Aviation Management
- Abbie Ijams, Professional Flight
- Kyle Jackson, Aeronautical Engineering Technology
- Rob Kiszka, Professional Flight
- Chris Konecnik, Professional Flight, Past President 2014-2015
- Megan Ley, Aviation Management
- Nicholas Liberman, Professional Flight
- Grace Lin, Aviation Management
- Jeremy Lu, Professional Flight
- Mike Mueller, Aviation Management
- Matthew Padrick, Professional Flight
- Tony Petraglia, Professional Flight
- Chad Rachubinski, Aviation Management
- Megan Shaffer, Aeronautical Engineering Technology
- Emily Southworth, Aviation Management
- Eric Simon, Professional Flight
- Jack Smith, Professional Flight
- Josh Stanton-Savitz, Professional Flight
- Mike Thanos, Professional Flight
- Molly VanScoy, Aviation Management
- Logan Voss, Professional Flight

EAA Airventure in Oshkosh!

Faculty, staff and students from Aviation & Transportation Technology visited Oshkosh, Wisconsin for EAA Airventure this past summer. Each year, thousands of people travel great distances to experience what is considered to be the "world's greatest aviation celebra-

tion" (eaa.org). Representatives from Aviation & Transportation Technology interacted with thousands of fellow aviators and prospective students and will be returning next year for EAA Airventure 2016! See you next year!



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 over two dozen airplanes and several virtual training simulators.



7 undergraduate degrees are offered:

1. 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.

- ABET Accredited
- A&P Certification preparation

2. AEROSPACE FINANCIAL ANALYSIS *(New)*

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.

3. AIRLINE MANAGEMENT & OPERATIONS *(New)*

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.

4. AIRPORT MANAGEMENT & OPERATIONS *(New)*

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

5. 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.

6. PROFESSIONAL FLIGHT TECHNOLOGY

A bachelor's degree in professional flight 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)
- University-owned fleet
- Additional fees apply
- Flight times are scheduled like classes

7. UNMANNED AERIAL Systems *(New)*

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.









SATT STUDENT PERSPECTIVE



Connor Duchen

JUNIOR, PROFESSIONAL FLIGHT TECHNOLOGY & FINANCE (DUAL DEGREE) Hometown: Centennial, CO

As a student at Purdue University, I am currently pursuing a dual degree in Aviation Technology and Finance. I began flying airplanes approximately eight years ago and have sought to learn more about the aviation industry ever since. That said, I have chosen to concurrently pursue finance to enhance my knowledge of investment analysis and corporate dealings. I am seeking internship opportunities that will further my experience in these areas, with the goal of pursuing a career in aviation finance. Since my start in the aviation industry several years ago, I have earned a commercial pilot certificate with instrument and multi-engine ratings and a flight instructor certificate with single-engine, multi-engine, and instrument ratings. Throughout those experiences I have gained approximately 485 hours of flight time in 15 different aircraft types. My excitement for the aviation industry has grown through these flying ventures and I would now like to parlay that experience into a career in aviation business.

Why I chose Purdue:

- 1. Fantastic aviation program combined with a well-rounded education
- 2. I enjoyed being on a large campus with a diverse group of people
- 3. Knowing that I'd get to fly a jet as a student is just plain COOL



Michael Mueller

JUNIOR, AVIATION MANAGEMENT Hometown: Munster, IN

I joined the Aviation Technology department during sophomore year, after transferring from Purdue University Calumet where I was in exploratory studies while also playing baseball. A longtime friend's father who has been an air traffic controller for many years got me interested in aviation after being able to tour various parts of O'Hare International Airport. Since then, I have enjoyed my experience thus far in the undergraduate program of Aviation Management. In the first semester here at Purdue, I earned Dean's List and Semester Honors, receiving National Honor Society recognition. Recently, I have become more involved by joining the Purdue Aviation Ambassadors along with the American Association of Airport Executives.

Why I chose Purdue:

1. When I visited Purdue before making my decision to transfer, the thing that stood out the most was the atmosphere. Around campus, everything just seemed alive and I felt like I was somewhere home away from home.

2. The degree I will receive from Purdue is like none other. You certainly get the return on investment, and knowing how big Purdue Aviation is world-wide I could not pass up this opportunity.

3. Diversity at Purdue University was another great opportunity and a big decision maker for me. I felt that Purdue offered this, and so far I have been able to meet people from all over the country. I have learned an immeasurable amount from the diversity of my classmates.

Program Highlights:

- ABET accredited Aeronautical Engineering Technology Program
- AABI accredited Management and Flight Programs
- Earn private and commercial pilot certificates and an instrument rating within Professional Flight major
- Work toward certification to become a flight instructor after your sophomore year
- Gain experience flying a jet as part of the Turbine Flight Operations
- Qualify for certification as an unmanned aerial vehicle (UAV) operator
- Utilize real-time data collected at Purdue University Airport for projects
- Explore additional options with coursework that can lead to the Certified Member Examination of the American Association of Airport Executives
- Learn in small, close-knit classes that feature individualized attention
- Work in industry-standard labs to gain hands-on experience
- Take advantage of firsthand knowledge from professors who have worked in the industry
- Explore other aspects of the aviation industry as you learn alongside students with majors in other aviation disciplines
- Enjoy high demand for your talents
- Engage with industry on a regular basis and be considered for internships and other placement opportunities
- Gain experience through data collection on research projects
- Strengthen teamwork skills as you work with students and professors from a variety of majors
- Globalization experience required for graduation

Find out more:



/PurdueUniversityAviationTechnology



@purdueaviation



Purdue Aviation

Online: polytechnic.purdue.edu/AT

Email: atinfo@purdue.edu

Phone: (765) 494-5782





SATT STUDENT STORE

On behalf of the student organizations in Aviation & Transportation Technology, the SATT Ambassadors have launched the first phase of the **SATT STUDENT STORE**! All proceeds from product sales go to support our outstanding Student Organizations! How to purchase:

- Onsite—Stop by NISW 172 to purchase a select number of items
- Online—visit our Facebook page for the online store link; please note that shipping is available but onsite pickup is preferred
- Pre-Order—email aviation@purdue.edu to request an order form and product information
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