Welcome to the February 2020 issue of the Navigator, the official newsletter of the College of Aviation—ERAU Prescott Campus. Our goal is to inform our students, faculty and staff as well as our alumni and members of our Industry Advisory Board of exciting developments and events in the college. Highlights in this issue are Scholarships, Theatre, Simulator, Research, Media, and more! So sit back, relax, and see what all is going on just this month!
ALPA SCHOLARSHIP OPPORTUNITY

The Air Line Pilots Association, Int’l (ALPA) is offering a scholarship opportunity for collegiate aviators involved in the ALPA ACE Club at Embry-Riddle Aeronautical University in Prescott, Ariz. Multiple scholarships totaling a value of $10,000 will be awarded for the 2020-2021 academic year to candidates displaying exemplary aviation career goals. This will mark the second year of ALPA’s scholarship program.

The application window is now open and available at www.alpa.org/scholarship. Applications will be accepted until April 1, 2020 at 5 p.m. eastern.

Among the eligibility requirements, students must be enrolled in an aviation degree program and active in one of ALPA’s professional development and/or mentoring programs. Note that we currently have formalized programs at 12 different universities. In addition to the online application, students must include an essay, résumé, transcripts, pilot certificate, medical certificate, any additional certificate/rating documentation, and two letters of recommendation—one of which should be from an instructor or professor.

Applications will be reviewed by ALPA’s Education Committee. At least 10 applicants will be selected to move on to the final selection process, which will involve a phone interview and final selection by the full committee. Successful scholarship recipients will be notified by June 1, 2020.
COLLEGE OF AVIATION STUDENT RECEIVES SCHOLARSHIP

January 29, 2020 Press Release
Embry-Riddle Student Receive Generous Scholarship from MD Helicopters

PRESCOTT, AZ & ANAHEIM, CA – Embry-Riddle Aeronautical University-Prescott Campus student Elijah Kemp has been awarded the 2020 MD 500 Transition Training Scholarship by MD Helicopters, Inc. This unique training opportunity has value of approximately $12,000.

The MD 500 is an advanced, turbine-powered helicopter that most students are not yet qualified to fly. The week-long, one-on-one training course is held at the MD Helicopters global headquarters and production facility in Mesa, Arizona. There, students learn helicopter systems, emergency procedures and how to fly the aircraft.

“Once again we were incredibly impressed by the quality of the applications we received for this year’s MD Helicopters Transition Training Scholarship,” said Lynn Tilton, Chief Executive Officer for MD Helicopters, Inc. “The caliber of applicants is a testament to Embry-Riddle’s commitment to developing a talented, next generation of rotorcraft pilots.”

“I want to thank Ms. Tilton, MD Helicopters, and Embry-Riddle for making this scholarship possible. I am honored to have been the recipient of this year’s MD 500 Transition Training Scholarship,” said Kemp. “This opportunity for specialized training in one of the most widely used helicopters in the industry will assist me in my pursuit for a career in the aviation community.”

In addition to a current or impending Certified Flight Instructor (CFI) rating, the scholarship applicants are required to maintain a minimum grade point average of 3.0, have a first or second class FAA-medical certificate, and submit two letters of recommendation and a video essay explaining how the transition would help launch their career.

“MD Helicopters is an incredible and long-time supporter of the Embry-Riddle Helicopter Program through scholarships, factory visits, training materials and industry feedback,” said Dawn Groh, Embry-Riddle Associate Department Chair. “The connection and continual exchange of ideas with industry is a crucial element for our students’ success and enables us to be highly responsive in our training and curriculum to industry needs.”

“We are particularly pleased to present this year’s award to Elijah Kemp” Tilton concludes. “He is an extraordinary applicant with a very bright future. We are honored to be part of furthering his education and future as an MD Helicopter pilot.”
Chets Christopher Awes served in the United States Marine Corps ("USMC") for 8 years. While supporting Operation Enduring Freedom, he served outside the continental United States during 2 deployments. He was honorably discharged in 2016 at the rank of Staff Sergeant, his job was Explosive Ordnance Disposal Technician and he received the USMC Naval Achievement Medal. In 2019, Christopher graduated from ERAU with a 4.0 GPA, Outstanding Graduate Award for the Bachelor of Science Aeronautics Degree Program and Summa Cum Laude. Flight, Helicopter / Rotorcraft specialty was his degree minor and he has recently been hired as a flight instructor at ERAU. During his academics, he was a member in the Aircraft Owners and Pilots Association (AOPA) and the Student Veterans Organization.

Steve Ziomek, Chairman and President of TB2, stated, “Christopher Awes is an exceptional recipient of the TB2 Aviation Scholarship Award. His academic merit, military service and passion for aviation are commendable. As a veteran and pilot myself, I know this young man will excel in the aviation industry.”

“We are particularly proud that Christopher is being recognized for his excellence,” said ERAU College of Aviation Flight Department Chair, Parker Northrup. “He earned his helicopter ratings with us and transitioned to become one of our fixed-wing instructor pilots. With these broad skills, he truly is the best embodiment of being the total aviation professional.”

Christopher commented, “It’s an honor being the first Embry-Riddle recipient of this scholarship opportunity as well as the first veteran recipient.” He continued, “The fact that this organization is able to keep the stories alive and commemorate the service of our veterans means a ton to me and I can’t express enough gratitude.”

To honor Christopher Awes, TB2 hosted a luncheon, sponsored by The Miller Group, represented by Chairman, President and Chief Executive Officer, Rudy R. Miller and Vice President, Kristina Caylor. Scottsdale Mayor W. J. “Jim” Lane was keynote speaker of the event and representatives from ERAU were also in attendance, including Dr. Tim Holt, Dean and Professor, College of Aviation; Dr. Kathleen Lustyk, Interim Vice Chancellor; Parker Northrup, Chair of the Flight Department; Steve Bobinsky, Executive Director of Philanthropy; AJ Reynolds, Director of Philanthropy; and Shelly Johnson, Associate Director, Leadership Annual Giving, as well as TB2 board members and special guests.
Meteorologist Daniel L. Schreiber Earns the AMS Certified Consulting Meteorologist Designation

DEL RIO, TX: Daniel L. Schreiber of Del Rio, Texas has earned the nationally recognized Certified Consulting Meteorologist (CCM) designation by the AMS.

The CCM designation is issued by the Society to highly qualified meteorologists providing research and services to a wide variety of users of weather information, including agriculture, business, industry, and various sectors of government. These services extend beyond the traditional public service functions and statutory responsibilities of the National Weather Service.

To earn the CCM credential, a meteorologist must make application for the designation, be recommended by three associates, pass a stringent written examination, and pass an oral examination before a national board of examiners. The CCM designation is granted only to those who demonstrate a broad background in meteorology together with detailed knowledge in a particular field of specialization. CCMs must demonstrate exemplary qualities of character and devotion to high professional standards.

CCMs are highly regarded by their peers in meteorology. They are considered experts in the application of weather information to a host of practical challenges ranging from specialized forecasts to engineering design support and expert testimony on weather-related court cases. Certification enables users of meteorological services to select consultants or employees with greater confidence in the quality and reliability of the products or services they will receive.

The AMS promotes the development and dissemination of information and education on the atmospheric and related oceanic and hydrologic sciences and the advancement of their professional applications. Founded in 1919, AMS has a membership of more than 14,000 professionals, students, and weather enthusiasts. AMS publishes 11 atmospheric and related oceanic and hydrologic journals—in print and online, sponsors more than 12 conferences annually, and offers numerous programs and services.
JIM & LINDA LEE PLANETARIUM’S FIRST PLAY

The universe is both the setting and the story of Silent Sky, a play presented by the Embry-Riddle Aeronautical University STEM Education Center in the Jim and Linda Lee Planetarium at 6 pm and 7:30 pm on Feb. 21 and 2 pm and 3:30 pm on Feb. 22.

The drama, written by Lauren Gunderson and directed by Prescott’s Linda Miller, is set in the early 1900s and tells the story of the all-female team of “human computers” who pioneered the advancement of astronomy.

Tickets are available online at https://prescott.erau.edu/about/planetarium/public-shows at $6.

The role of Peter Shaw will be played by none other than College of Aviation’s Professor Sean Jeralds.
2020 INDUSTRY ADVISORY BOARD MEETING—AGENDA

College of Aviation, Industry Advisory Board  
February 20th and 21st, 2020

Day 1 - Thursday, February 20

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<tr>
<th>Time</th>
<th>Location</th>
<th>Topic</th>
<th>Facilitated By</th>
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<tbody>
<tr>
<td>10:00-3:00</td>
<td>Activity Center</td>
<td>Spring Career Expo (Optional)</td>
<td><a href="mailto:yael@erau.edu">yael@erau.edu</a> or <a href="mailto:hudakd@erau.edu">hudakd@erau.edu</a></td>
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<tr>
<td>4:30-7:00</td>
<td>Spruance House</td>
<td>Welcome Reception – Open House - Beverages and Appetizers – Please use “COA” Shuttle Van from Activity Center or Parking Lot D/E by Student Union</td>
<td>Chairman David Small &amp; Dr. Tim Holt</td>
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Day 2 – Friday, February 21

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<tr>
<td>1.</td>
<td>7:30am</td>
<td>The Hangar</td>
<td>Light Breakfast Items</td>
<td>Chairman David Small &amp; Dr. Tim Holt</td>
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<td></td>
<td></td>
<td>(Student Union)</td>
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<td>2.</td>
<td>8:00-8:30</td>
<td>The Hangar</td>
<td>Program Updates</td>
<td>Program Chairs</td>
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<td>3.</td>
<td>8:30-11:00</td>
<td>The Hangar</td>
<td>Student/IAB Engagement</td>
<td>Ms. Merrie Heath, Ms. Stacey McIntire, Mr. Dylan Horan (CoA SGA Rep)</td>
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<td>4.</td>
<td>11:00-12:00</td>
<td>The Hangar</td>
<td>Lunch</td>
<td>All Attendees</td>
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<td>5.</td>
<td>12:00-1:00</td>
<td>Program Breakouts</td>
<td>Program Chairs &amp; Members</td>
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<td>• AS – Airlines</td>
<td>Dr. Juan Merkt</td>
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<td>• AS – Helicopter</td>
<td>Prof. Dawn Groh</td>
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<td>• AAS - ATM</td>
<td>Jennah Perry</td>
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<td>• AAS - Meteorology</td>
<td>Dr. Curtis James (Dept. Chair)</td>
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<td>• AAS - UAS</td>
<td>Dr. Mark Sinclair</td>
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<td>• Flight</td>
<td>Prof. Johnny Young</td>
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<td>• Safety</td>
<td>Prof. Parker Northrup</td>
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<td>Prof. Ed Coleman</td>
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<td>6.</td>
<td>1:00-3:00</td>
<td>The Hangar</td>
<td>Cross-Discipline Forum &amp; Dessert</td>
<td>Chairman David Small, Dr. Tim Holt, College of Engineering, College of Security &amp; Intelligence, and School of Business Deans</td>
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<td>7.</td>
<td>3:00-3:30</td>
<td>The Hangar</td>
<td>Visioning Session</td>
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<td>8.</td>
<td>3:30-4:00</td>
<td>GSIS B17-106</td>
<td>IAB Caucus w/Chairman</td>
<td>Chairman David Small</td>
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<td>9.</td>
<td>4:00-5:00</td>
<td>The Hangar</td>
<td>Closing and Refreshments</td>
<td>IAB, CoA, Student poster presenters</td>
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Who in the world would have thought that getting to know your airplane as an energy system would be considered fun? Well... if you are an aviation or FAA Safety Briefing nerd, then yes you will find this topic fun, too!

ERAU Prescott College of Aviation’s Dr. Juan Merkt wrote an article for the Jan/Feb 2020 issue of FAA Safety Briefing magazine on the topic of “Getting to Know Your Airplane as an Energy System” (p. 28) that even for a novice is an interesting read. Students who take Dr. Merkt’s AS 316 course (Safety Principles of Aircraft Energy Management) at ERAU Prescott will get a taste of his passion for this topic!

All interested staff, faculty, students, parents, or industry members are welcome to take a look at the FAA Safety Briefing magazine – see the link below. Also, you can tune into the FAA Safety Briefing WEBINAR where Dr. Merkt’s article was mentioned– see the other link below. If you are part of the WINGS pilot proficiency program you can likely earn credit for partaking in this webinar. For more information on the WINGS program go here: https://www.faasafety.gov/wings/pub/learn_more.aspx.

As always, the College of Aviation here at ERAU Prescott has faculty who work to stay on the cutting edge of aviation information so we can bring it to our students and others in the industry! To speak to Dr. Merkt about his article or about his AS 316 course, reach out to him at merktj@erau.edu or 928-777-6669.

FAA SAFETY BRIEFING MAGAZINE (January-February 2020 Issue)
(See PAGE 28)

FAA SAFETY BRIEFING WEBINAR (January-February 2020 Issue)
(Watch from 46:33 to 49:25 min)
PRESCOTT FLIGHT DEPARTMENT
MODEL AND SIMULATION UPDATES

NEW PRIMARY TRAINERS

SPACE PLANE SIMULATOR—Can you fly the reentry? Open times available
Virtual Reality Ph.D. Research Project
Artificial Reality Experience Test Set

FIRST STEPS IN A FULLY SYNCHRONIZED LIVE, VIRTUAL, CONSTRUCTIVE, AND ARTIFICIAL REALITY TRAINING ENVIRONMENT
Throughout his career, Charles W. Miller (1917-2014) worked at a number of companies in the aerospace industry, including Lockheed and its subsidiary Vega Aircraft, North American Aviation, Northrop Aircraft, and the Ramo-Woolridge Corporation (which would become TRW, Inc.). The C. W. Miller papers in the Aviation Safety and Security Archives document his work as an aeronautical engineer, but also showcase his talent as an artist and cartoonist. One of the gems of the collection is Miller’s 1945 illustrated booklet "Do You Know the Flight Rules?"

The Aviation Safety and Security Archives is located in RASC II (Building 22). For more information, visit archives.pr.erau.edu or contact Melissa Gottwald (gottwalm@erau.edu or 928-777-3907).
There is another world out there. The world of ice and fairy tales. It is inhabited by amazing wild life, innocent and curious. Antarctica is so different from our regular lives, but you have to be very strong and to have an especially tough stomach, because when you cross the Southern ocean, you will encounter terrible storms and you will be in trouble. Roaring forties, furious fifties and screaming sixties along the Antarctic convergence are merciless. Be prepared for severe weather and challenges.

East Antarctica is one of the least visited coastlines of the world, pristine and great for ultraviolet, total stratospheric ozone and aerosols measurements. Ozone, a molecule made up of three oxygen atoms, shields life on Earth from the harmful effects of the ultraviolet radiation of the Sun. The increased amounts of ultraviolet radiation that would reach the Earth's surface because of ozone depletion could increase the incidence of skin cancer and cataracts in humans, damage the DNA and immune systems of humans and mammals, harm crops and interfere with marine life. Some uncertainties do still exist, particularly with respect to possible long-term changes in cloud cover, and direct UV measurements are needed both to verify the satellite data and to monitor any additional future trends. For Dr. Ivanova, working with the data sets collected will be a quality control challenge, searching for a slow, long-term trend among a variety of short-term trends, and ascertaining how much of the change in global ozone is due to human activities and how much is attributable to natural atmospheric processes.
WHO IS YOUR SOMEONE? MERRIE HEATH & STACEY MCINTIRE

New students at our lovely ERAU Prescott campus are trying to get acclimated to a new learning and social environment. The realization that this learning environment can be so very different from high school can hit pretty hard sometimes. Some students may feel lost. Or they may not be sleeping very well. Or they just decide to stay in their dorm room because, well, the world can be scary out there, especially if one is away from family that has always been that daily safety net.

If you are a student – or a parent of a student – who has questions, concerns, or is struggling in any way the best way to find the quickest way out of it is to talk to SOMEONE.

Yes. A real live person who is a designated SOMEONE can help answer questions and to find solutions. Within the College of Aviation the best person to start with is your Academic Advisor – either Merrie or Stacey. There are other designated SOMEONEs around campus as well and most can be identified with this tag:

While trying to get adjusted and to figure things out it is always helpful to have SOMEONE to talk to or to ask questions – and believe us when we say we are here to help you to the best of our ability! It takes courage to reach out to SOMEONE and there are no ‘silly’ questions. Check out this video through your ERNIE account:

https://ernie.erau.edu/Departments/academic-advising-prescott/Pages/Default.aspx

Take a look around – at your faculty, your flight instructor, your TM, your advisor, your Dean… see who might be a good SOMEONE for you today!

Reach out to Stacey McIntire at mcintes1@erau.edu or to Merrie Heath at merrie.heath@erau.edu if you have any questions!
IN THE LOCAL NEWS

Aircraft crash expert talks in wake of Bryant tragedy

By NANCY HUTSON
The Daily Courier

Embry-Riddle Aeronautical University Professor Bill Winkock talks over some of the details from a crashed Robinson R 22 Beta ll helicopter donated to the Robertson Accident Investigation Laboratory for its 8.5 acre outdoor crash lab. (Nandi Hulston/Courier)

"Assume nothing" is a key statement for Embry-Riddle professor

By NANCY HUTSON
The Daily Courier

Embry-Riddle Aeronautical University Professor Bill Winkock talks over some of the details from a crashed Robinson R 22 Beta ll helicopter donated to the Robertson Accident Investigation Laboratory for its 8.5 acre outdoor crash lab. (Nandi Hulston/Courier)

Kobe Bryant’s death casts spotlight on crash-warning system

LOS ANGELES (AP) — The crash that killed six people, including Kobe Bryant, has led to calls for crash-warning systems to be installed in more helicopters, but regulators and pilots worry that the instrument can trigger too many false alarms and become distracting.

"Another warning system screaming at you isn’t going to help," said Brian Alexander, a helicopter pilot and aviation lawyer. "You don’t want to inundate the pilot.

All six people killed in the crash were officially identified as of Wednesday night, according to the Los Angeles County Department of Medical Examiner-Coroner. The victims had previously been identified publicly by friends and family.

The death of the basketball star last Sunday, Jan. 26, has highlighted the debate over the merits of what’s known as the "Territorial Awareness and Warning System," or TAWS.

See WARNING, page 7A
OTHER COA HAPPENINGS

ERAU Prescott Human Resources hosted its annual service awards banquet on January 15, 2020. Among the CoA recipients were Juan Merkt (5 yrs), Dawn Groh (5 yrs), Jennah Perry (5 yrs), Stacey McIntire (5 yrs), and Dawn Marcuse (5 yrs). Shown on the right, Flight Dept. folks Ryan Albrecht (15 yrs), Shannon Bowe (5 yrs), Josh Donaldson (15 yrs), Lori Brimhall (20 yrs), and Russell Harris (20 yrs), with Parker Northrup, Flight Chair.

Prof. Ronny Schroeder

and Amanda welcomed bouncing baby boy, Maximilian, in early January.