

9-2017

September 2017 School of Graduate Studies Newsletter

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Scholarly Commons Citation

School of Graduate Studies. (2017, September). Embry-Riddle Aeronautical University, College of Aviation, School of Graduate Studies Newsletter. <https://commons.erau.edu/db-sgs-newsletter/13/>

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SCHOOL OF GRADUATE STUDIES **NEWSLETTER**

EMBRY-RIDDLE AERONAUTICAL UNIVERSITY | COLLEGE OF AVIATION



FALL 2017 ISSUE

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NOTES FROM THE ASSOCIATE DEAN

WHAT? ME? BECOME A PROFESSOR? SURELY YOU JEST!

When I was young, I thought my father had the most boring job in the world. He was a university professor. His life began as one filled with excitement, first as a child during the Spanish Civil War, then as an infantry officer in Morocco as part of the Spanish Africa corps, and later as a diplomat commuting between embassies in the Middle East on his trusty BMW motorcycle. But all that happened before I was born.

As a kid, all I saw was Dad attending academic soirées, grading papers, and retreating to his study to perform his research. I used to wonder what had become of the man who I heard stories about at the dinner table. I used to look at my father and think, “That life isn’t for me. I will be a man of action!” Yet here I am today, going to academic soirées, grading papers, and retreating to my study to perform research. What happened to me?

As it turns out, being a professor can be quite exciting. The entertainment industry certainly seems to have caught on. Think back to Harrison Ford as Dr. Henry Jones in *Indiana Jones*. Or more recently, Patrick Stewart as Professor Charles Xavier in *X-Men* and Tom Hanks as Professor Robert Langdon in *The Da Vinci Code*.

The academic portion of my career isn’t worthy of a Hollywood script, but it’s had intriguing moments. I have crawled around space launch pads to explore mission assurance challenges, discussed automation mode errors on flight decks, taught gladiatorial combat techniques in Roman amphitheaters, flown Boeing 777 simulators to test NextGen air traffic technology, debated safety culture with generals while strolling through vineyards in South America, explored safety features onboard steam locomotives, helped the petroleum industry reduce injury rates, and even completed underwater helicopter egress training.



Dr. Antonio I. Cortés

Associate Dean

How’s that for a life of action?

Are you interested in becoming a professor? The College of Aviation projects significant faculty hiring in the next decade. The U.S. Department of Labor predicts 13 percent growth for postsecondary teachers in the near future. If you want to build futures and solve the world’s problems for a living, you don’t have to be in industry or government. Sit down with your favorite professor and ask how to connect the dots to become a faculty member. Or come to our information session this November. I’ll give you a hint on what we’ll discuss: you’re already on your way by virtue of being a graduate student.

Stay on target!

SCHOOL OF GRADUATE STUDIES FACULTY & STAFF

MEET YOUR SGS TEAM!



MARISA AGUIAR
Ph.D. Residential Student



DR. ANTONIO CORTÉS
Associate Dean, School of Graduate Studies



BRADLEY BAUGH
Ph.D. Residential Student



DR. HAYDEE CUEVAS
Assistant Professor of Doctoral Studies



DR. TIM BRADY
Professor of Doctoral Studies



DR. ANDREW DATTEL
Assistant Professor of Graduate Studies



ANTHONY BRICKHOUSE
*Associate Professor of Aerospace & Occupational Safety,
Graduate Studies*



KATIE ESGUERRA
Marketing & Admissions Coordinator



WOJIN CHOI
Ph.D. Residential Student



DR. DAVID ESSER
Professor of Doctoral Studies



DR. BRUCE CONWAY
Professor of Doctoral Studies



DR. MARK FRIEND
Professor of Doctoral Studies

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FACULTY & STAFF *CONTINUED*



STEPHANIE FUSSELL
Ph.D. Residential Student



DR. DONALD METSCHER
*Professor of Graduate Studies
and Program Coordinator*



DR. STEVEN HAMPTON
*Associate Dean for Research and
Professor of Doctoral Studies*



DR. KADIE MULLINS
Assistant Professor of Doctoral Studies



MWANGI (MOH) KARURI
Graduate Assistant



JAN NEAL
Lead Instructional Designer for Doctoral Studies



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Program Administrator for Graduate Studies



DR. MICHAEL O'TOOLE
*Professor of Aerospace & Occupational Safety,
Graduate Studies*



DR. DAHAI LIU
Professor of Graduate Studies



DR. IRWIN PRICE
Professor of Doctoral Studies



DR. IAN MCANDREW
*Chair Department of Aeronautics
and Professor of Graduate Studies*



DR. JOHN SABEL
Assistant Professor of Doctoral Studies

SCHOOL OF GRADUATE STUDIES

FACULTY & STAFF *CONTINUED*



JIYEON (JI JI) SONG
Graduate Assistant



DR. DOTHANG TRUONG
*Program Coordinator and
Professor of Doctoral Studies*



SUSAN (SUSIE) SPROWL
Administrative Assistant



**VISHNU VARDHAN (VISHNU)
VAIKATHUSSERIL RAVINDRANA**
Graduate Assistant



DR. ALAN STOLZER
*Dean, College of Aviation and
Professor of Doctoral Studies*



DR. SCOTT WINTER
Assistant Professor of Doctoral Studies



SIMONA TEODOROVIC
Graduate Assistant



DR. JENNIFER THROPP
Assistant Professor of Graduate Studies

ACCOMPLISHMENTS

FACULTY ACCOMPLISHMENTS



Dr. Dothang Truong, Professor of Doctoral Studies was awarded funding from the university's Faculty Innovative Research in Science and Technology (FIRST) Program to perform research titled, "Developing a Taxonomy of Risk Factors for

Small Unmanned Aircraft System (sUAS) Operations in National Airspace System (NAS)."

Congratulations and good luck to you, Dr. Truong!

MSA DEFENSE



Stephanie Fussell, MSA graduate and Ph.D. cohort 9 student, successfully defended her thesis on August 1, 2017 titled "A Replication Study of Personality Types of Students in a Professional Pilot Baccalaureate Degree Program."

Congratulations, Stef!

PH.D. DEFENSE



Erik Baker, Ph.D. has successfully defended his dissertation titled, "Comparative Analysis of Conventional Electronic and Oz Concept Displays for Aircraft Energy Management." He defended on August 24, 2017.

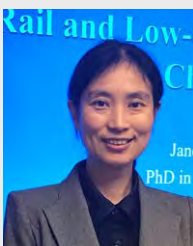
Congratulations, Erik!



Casey Richardson, Ph.D. has successfully defended his dissertation titled, "Applications of the Technology Acceptance Model to Integration of the Automatic Ground Collision Avoidance System in Fighter Aircraft Operations."

He defended on May 31, 2017.

Congratulations, Casey!



Jane Pan, Ph.D. has successfully defended her dissertation titled, "Investigation of Passengers' Intentions to Use High-Speed Rail and Low-Cost Carriers in China." She defended on July 25, 2017.

Congratulations, Jane!

Timothy Allen Sestak, Ph.D. has successfully defended his dissertation titled, "Effect of Surface Materials and Morphology on Wingsuit Aerodynamics." He defended on May 1, 2017.

Congratulations, Tim!



Gregory Woo, Ph.D. has successfully defended his dissertation titled, "Visual Detection of Small Unmanned Aircraft: Modeling the Limits of Human Pilots." He defended on August 17, 2017. This was the largest viewed dissertation

to date with 55 people in the room and 20 web participants!

Congratulations, Greg!

AWARDS & HONORS

We would like to recognize both Susie Sprowl, School of Graduate Studies (SGS) Administrative Assistant and BeeBee Leong, SGS Program Administrator for the MSA program, for their 15 years of service with Embry-Riddle! They were both presented with their service awards by President Butler on the evening of May 11, 2017. Congratulations, Ladies for all of your hard work and dedication to this University.



“If you have, need, or want to work, Embry-Riddle is the best place in Volusia County, I enjoy coming to work every day. Thank you, to the HR crew (where I first started) for seeing in me my possibilities.” — Susie Sprowl



“I would like to send a heartfelt thank you to all who supported me and believed in me during my 15 years of service. I hope to continue working with more wonderful people and I am looking forward to many more years of service with Embry-Riddle.” — BeeBee Leong



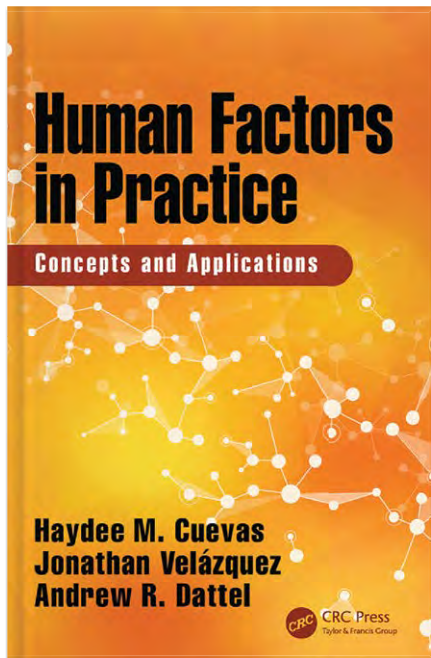
June 22, 2017

Dr. Alan Stolzer and Jan Neal were recognized by the Worldwide Campus with induction into their Distance Education Hall of Fame during their “End of Year” meeting on campus. This is a great achievement.

Congratulations to you both!

CONGRATS!

PUBLISHED WORKS



NEW BOOK

The School of Graduate Studies is proud to announce a recent publication from **Dr. Haydee Cuevas**, Assistant Professor of Doctoral Studies; **Dr. John Velázquez**, Graduate of the Ph.D. program; and **Dr. Andrew Dattel**, Assistant Professor of Graduate Studies.

Congratulations to you all!

Title: Human Factors in Practice: Concepts and Applications
Publisher: CRC Press, Boca Raton, FL
ISBN: 978-1-4724-7515-2



DR. HAYDEE CUEVAS
Assistant Professor of Doctoral Studies



DR. JOHN VELÁZQUEZ DB '16
*Associate Professor and Assessment Coordinator,
Inter American University of Puerto Rico*



DR. ANDREW DATTEL
Assistant Professor of Graduate Studies

OPPORTUNITIES

STUDENTS, ALUMNI & STAFF

AIR FORCE ROTC OPPORTUNITY

To all MSA students! There is a one-year AFROTC commissioning program that you may be eligible for.

AFROTC One & Two Year Programs

The Air Force ROTC one & two year programs are temporary programs to increase officer production in fiscal year 2019. This is a path for highly motivated individuals to obtain a commission as an Air Force 2nd Lieutenant on a compressed schedule, for those that did not pursue ROTC in their freshman or sophomore years.

Requirements

- › Full-time student (undergraduate or graduate)
- › U.S. Citizen
- › 2.5 Cumulative and Term GPA
- › Passing Air Force Officer Qualification Test scores (15 verbal and 10 quantitative)
- › Passing Air Force fitness score
- › Certified and Qualified DoD Medical Exam

Again this is a highly compressed schedule, but still requires all AFROTC coursework to be completed, which means a large time commitment for those interested in pursuing the program.

Air Force ROTC's program is designed to recruit, educate and commission officer candidates through college campus programs based on Air Force requirements.



One-Year EXPRESS Technical Scholarship

The 1-Year EXPRESS Technical Scholarship is awarded to qualified individuals who are able to commission in fiscal year 2018 and hold or are pursuing a technical degree. This is an AFROTC Type 1 or FULL tuition scholarship. Qualified applicants will automatically receive the scholarship, there is no competitive process.

Requirements

- › Full-time student (undergraduate or graduate)
- › Technical major (undergraduate or pursuing technical graduate degree)
- › U.S. Citizen
- › 2.5 Cumulative and Term GPA
- › Passing Air Force Officer Qualification Test scores (15 verbal and 10 quantitative)
- › Passing Air Force fitness score
- › Certified and Qualified DoD Medical Exam
- › May not pursue rated flying positions

Contact Info

To learn more or to start the screening process, please contact:

1st Lt. Derek Rose

Assistant Professor of Aerospace Studies, Air Force ROTC

386.226.6871 | afrotcdb@erau.edu

OPPORTUNITIES

STUDENTS, ALUMNI & STAFF



BROWN BAG MEETING

The September Brown Bags series has been rescheduled for Tuesday, October 3rd at 2:30 p.m. in Room 305 in the COA.

Dear Ph.D. in Aviation and MSA students and faculty:

Welcome back to the new academic year. For the fall semester, we will hold a Brown Bags once a month. This semester, Brown Bags will be held on Tuesday, September 12th, Tuesday, October 31st and Tuesday, November 28th. Brown Bags are informal meetings that provide a forum for the intellectual exchange of ideas pertaining to an area of scholarship and, importantly, they're also a venue where an individual (student or faculty) can deliver a presentation without the pressure of being graded, and receive constructive feedback from the audience.

Brown Bags can provide a venue to practice upcoming conference talks, thesis/dissertation proposals, as a way to solicit ideas for research projects, etc. It's a great way to get feedback from people who want you to succeed, and to develop camaraderie. The meetings are called Brown Bags because the practice of bringing a lunch or snack to the meeting emphasizes its informality.

The time slot of all Brown Bags for this semester is from 2:30 – 3:30 p.m. All Brown Bags for the semester will be held in the Conference Room on the 3rd floor of COA (Room 305). All MSA students, Ph.D. students and all SGS faculty are encouraged to attend. EagleVision is available for set up for people to call in to make presentations or attend. Dr. Scott Winter, Assistant Professor in Graduate Studies will kick off the semester's first Brown Bag on Tuesday, October 3rd at 2:30 p.m. (COA Room 305).

I encourage everyone to attend these Brown Bags either as a presenter, or as a supportive audience member.

I look forward to seeing you at our first Brown Bag of the semester on Tuesday, October 3rd.

Andy Dattel, Ph.D., CPE

*Assistant Professor, School of Graduate Studies;
Director, Cognitive Engineering Research in Transportation
Systems (CERTS) Lab*

If you would like to present during one of the sessions, please email andy.dattel@erau.edu

ORGANIZATION OPPORTUNITY

Join the Human Factors and Ergonomics Society

When your students join the Human factors and Ergonomics Society (HFES), they become an important part of the world's largest individual-membership organization for HF/E and allied professionals. In addition to the benefits of publications, the HFES Career Center, and discounted registration for Society events, they are offered the opportunity to build meaningful and lasting professional relationships with peers and HF/E experts from around the world.

> JOIN TODAY

For more information about the benefits of the HFES student membership, contact the Members Services Department.

HFES Member Services Department
310.394.1811 / membership@hfes.org

WORKSHOP

“Becoming a Professor”

COMING SOON

Workshop will be offered to all MSA and Ph.D. students who are interested in learning more about becoming a professor. SGS will be looking to hire more faculty once we grow our master's program with the addition of several degrees over the next five years. The perfect solution to this high demand is to groom our current students into professors. Dr. Cortés will also be discussing the proposed SGS Doctoral Student Teaching Program.

Date: Tuesday, November 7, 2017

Time: 3:30 – 5 p.m.

Location: TBD

No RSVP is required

Contact: Susie Sprowl at 386.226.7499 or email at bencs50f@erau.edu.

There will be pizza provided afterwards. Also, for anyone who cannot make this workshop in person, we will have a webcast so that you may remote in and participate.

AIRPORT COOPERATIVE RESEARCH PROGRAM UNIVERSITY DESIGN COMPETITION

Announcing the 2017-2018 Airport Cooperative Research Program (ACRP) University Design Competition for Addressing Airport Needs

Students, please take advantage of the opportunity to participate in the University Design Competition, which offers open-ended, real-world challenges that cross many science, engineering and business disciplines, including computer science. This is often done as part of a capstone design course, for independent credit or as a student professional society project.

Students win cash prizes and the university receives special recognition. This year we have increased the award amounts for the first and second place teams. First place will receive \$3000, second place will receive \$2000, and third place will receive \$1000. In addition to presenting their designs at an awards ceremony at the National Academies of Sciences, Engineering and Medicine, first place winners will present at a fall national professional meeting relevant to their topic.

Guidelines for the 2017-2018 academic year competition are available online. Please share the guidelines with any one that may be interested in participating in the program.

› **GO TO GUIDELINES**

In addition to last year's extensive range of topics, the following new topics have been added; one in each of the four challenge areas:

- › **OPERATION** and maintenance procedures to enhance sustainability and resilience at airports.
- › **OPTIMIZING** NextGen technology to improve runway safety in particular and airport safety in general.
- › **ENHANCING** potential for resilience and sustainability of airport improvement projects in response to climate change effects or other naturally occurring catastrophic events.
- › **PLANNING** for the integration and mitigation of possible impacts of drones into the airport environment.





SAVE

THE

DATE

MILITARY AIR SAFETY WORKSHOP

April 17-19, 2018

Representatives of military forces, manufacturers of military aircraft and equipment, contractors engaged in military support, military air safety investigators and safety program managers, safety educators, manned and unmanned airborne law enforcement and researchers of all nationalities are cordially invited to participate in the sixth Military Air Safety Workshop. The workshop is being held at Embry-Riddle in sunny Daytona Beach, Fla. Join us!

Call for papers will go out in January of 2018.

COLLEGE OF AVIATION
SCHOOL OF GRADUATE STUDIES NEWSLETTER

Please feel free to send all updates/announcements to
Katie Esguerra at dunnk2@erau.edu for future newsletters.

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