AiR conference

JANUARY 15 – 18, 2015

EMBRY-RIDDLE
Aeronautical University
SCHOLARLY COMMONS

A3IR conference

EMBRY-RIDDLE Aeronautical University

A^{3}IR Summer Research Academy

Presented by

Robertson Safety Institute
Prescott, Arizona
EMBRY-RIDDLE AERONAUTICAL UNIVERSITY

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Prescott, Arizona - June 22 - 26, 2015

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For more Info or to Register
snap the QR code or go to:
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Robertson Safety Institute
3700 Willow Creek Road
Prescott, AZ 86301-3720

E-Mail: ***prrsi@erau.edu***
Phone: (928) 777-6960

AiR conference

EMBRY-RIDDLE Aeronautical University

FULL SCHEDULE

Lead Sponsorship provided by the Arizona Commerce Authority

THURSDAY, JANUARY 15 *(All events this day held at Hilton)*

6:00 a.m. -9:00 a.m.	Complimentary Breakfast at Each Hotel, On Your Own	
9:00 a.m. -5:30 p.m.	Early Registration	UCC FOYER
10:00 a.m. -Noon	Open round table discussion, Optional Pre-Session, Complimentary (RSVP) "Research and Scholarship: An Interactive Discussion with Journal Editors and More" *Chair: David Ison with John Mott, Brent Bowen, Nanette Scarpellini-Metz & Mary Fink* • *"Faculty Research Throughput: Building the Research Resume" David Ison (#1079)* • *"Evaluating the Value of Aviation Research: An Inquiry into Journal Impact Factor" David Ison (#1080)*	UCC 4
Noon -1:00 p.m.	Deli Buffet Lunch for Pre-Session Registrants, Industry Advisory Board Members & Robertson Safety Institute Registrants *sponsored by David Robertson, Trustee Embry-Riddle Aeronautical University*	UCC 3
1:00 p.m. -5:00 p.m.	Robertson Safety Institute Workshop *(advance registration and payment required)* "Investigations in Support of Safety Management Systems (SMS)" *Welcome led by David Robertson and Erin Bowen* *Workshop Co-Sponsored by the University of South Australia and led by University of South Australia SMS Instructors Stewart Schreckengast & Douglas Drury*	UCC 1-2
1:00 p.m. -5:00 p.m.	Industry Advisory Board (Embry-Riddle Prescott Campus) *(Invitation Only)* *Sponsored by ERAU Corporate Relations*	UCC 4
5:30 p.m. -6:00 p.m.	Exhibitor Setup	UCC
5:30 p.m. -8:00 p.m.	Registration for Conference and Opening Reception	Hilton Lobby
5:30 p.m. -8:00 p.m.	**Session I – Industry Sponsored Opening Reception** *(Hearty hors d'oeuvres)*	HAC & Hilton Poolside
	Exhibitor and Sponsor Partners Poster Display or Visuals *Host: ERAU Corporate Relations, Lisa Kollar* *Chair: Merrie Heath*	

Key Legend:

UCC - Hilton University Conf Center
HAC - Hilton Hacienda Conf Rooms
CACTUS – Holiday Inn Cactus Conf Room

(PR) Peer Review Section
• Presenting

WiFi Holiday Inn: 011215
DRURY: Drury Inn across the street
WiFi Hilton: Aircon

FRIDAY, JANUARY 16

6:00 a.m. -8:30 a.m.	Complimentary Breakfast at Each Hotel, On Your Own	
7:00 a.m. -7:30 a.m.	Volunteer and Staff Logistics Meeting *Chair: Dawn Marcuse*	UCC FOYER
7:30 a.m. -8:15 a.m.	Exhibitor Setup	UCC
7:30 a.m. -5:30 p.m.	Registration and Help Desk	UCC FOYER
8:30 a.m. -8:45 a.m.	**Session II-A – Opening Address/Welcome** *Sponsored by: Talon Systems*	UCC 1-4

A³IR Con 2015 Program Chair: David Worrells; Moderator: John Mott
Brent Bowen & Frank Ayers

8:45 a.m. -9:45 a.m.	**Session II-B – Interactive Discussion with the Audience on the State of Global Security and Safety**	UCC 1-4

Moderator: John Mott
Panel: Dr. Harry Robertson, Hon. Robert Sumwalt, Vahid Motevalli & Richard Bloom

9:45 a.m. -10:15 a.m.	**Session III – Break with Exhibitors and Sponsor Posters** *Sponsored by FRASCA International*	UCC 1-4

Chair: Lisa Kollar

10:15 a.m. -11:45 a.m. Concurrent Sessions

Session IV - (PR) Unmanned Aerial Systems I HAC 1-3

Chair: David Thirtyacre and Co-Chair: Kent Anderson

- "UAS Avionics for the NAS" *Ken Varga (#1142)*
- "Aptitude Test for Remotely Piloted Aircraft Pilots in Korea" *Kangseok Lee (#1072)*
- "Aerial Information Assurance: The Strategic Safety and Privacy Benefits of a Secure Unmanned Aerial System" *Donna A. Dulo (#1166)*
- "Using ETOPS Methodology to Obtain System-wide FAA Approval for UAS in the NAS" *Brian Bixler (#1123)*
- "Embracing Uncertainty and Complexity: Defining leadership in the age of UAS" *Edward Knab, Eric Anderson (#1102)*
- "Unmanned Aerial Systems and Airport Master Plans" *David Worrells (#1141)*

Session V – (PR) Aviation & Airport Safety/Training UCC 4

Chair: Peter Dittmer

- "Danger in the Training Gap" *William Korner (#1143)*
- "Danger Zone: The Mid-Air" *Gordon Jiroux (#1147)*
- "Examining Breakdowns in Pilot Monitoring of the Aircraft Flight Path" *Hon. Robert Sumwalt (#1071)*

Session VI – Debate: Academia and Industry Solutions for Implementing the ATP/CTP Course — UCC 1-2

Moderator: Juan Merkt, ERAU Prescott

AIRLINES
Ameriflight: Brian Lander
Envoy: Nick Brice
Horizon Air: LaMar Haugaard and Bill Thomson
Mesa: Kevin Wilson and Ken Mayfield
Skywest: Jeremy Michalek

UNIVERSITIES
Arizona State University: Mary Niemczyk
ERAU, Prescott: Jerry Kidrick
Purdue University: John Mott

TRAINING ACADEMY
Flight Safety International: Randy Annett

AIRLINE ASSOCIATION
ALPA: Jacob Clymo

Noon -1:30 p.m.

Session VII – Buffet Lunch with Exhibits/Sponsor Announcements in Exhibit Hall — UCC

Sponsored by: ERAU Marketing and Enrollment Management

Moderator: John Mott

1:30 p.m. -3:00 p.m. Concurrent Sessions

Session VIII – (PR) Unmanned Aerial Systems II – Safety, Standards, Human Factors & ARFF Applications — HAC 1-3

Chair: Vahid Motevalli

- "Unmanned Aerial System Use in Airport Rescue & Fire Fighting" *David Ison, Brent Terwilliger, Dennis Vincenzi & Todd Smith (#1078)*
- "Unmanned Aerial Systems in the Fire Service: Concepts and Issues" *John Griffith & Ronald Wakeham (#1088)*
- "Insights into UAS Accidents & Incidents" *Robert Joslin (#1084)*
- "Unmanned Aerial Systems: A Review of Safety, Security, Privacy and Operations in Africa" *Micah Walala & Jacob Shila (#1096)*
- "Human Factors Considerations in Autonomous Lethal Unmanned Aerial Systems" *Kristine Kiernan (#1116)*
- "Development of Standards for Automated Flight Management Systems: A Process" *Michael Courbat (#1097)*

Session IX – (PR) Safety/Accident Investigation UCC 1-2

Chair: Hon. Robert Sumwalt

- "Solving an Age-Old Debate: What Really Controls Altitude and Airspeed?" *Juan Merkt (#1144)*
- "Use of Virtual Environments for Simulation of Accident Investigation" *Scott Burgess, Kat Moran (#1077)*
- "Airline Humanitarian Assistance in the Aftermath of an Air Disaster" *Ken Jenkins (#1093)*
- "Analysis of Aircraft Accident Data via Weather Indexing" *Thomas Long, D. Blake Stringer, Raymond Weber, Shawn A. Pruchnicki, Seth Young, Matt Romero, Brian Neff, Alexander Flock, & Steve Wall (#1100)*
- "Analysis of Aviation Mishaps Exhibiting Human Error as the Primary Root Cause" *Thomas Stein (#1085)*

Session X – "What Happened to MH 370? and Safety 2014 Year in Review" CACTUS

Chair: Bill Waldock, Co-Chair: Mike Canders

Open discussion with the participants.
Come and share your theories with one of the leading experts and media consultants.

- "2014- What We Learned" Bill Waldock
- "No Official Comments Today, but When?" Hon. Robert Sumwalt
- "The Australian Response" Douglas Drury
- "The News and Speculation from Eur-Asia" Hatice Kucukonal
- "Thoughts from a Safety Professional's Perspective" David Robertson

Session XI – (PR) Emergency Preparedness and Fire Science UCC 4

Chair: James Schultz

- "Runway Centerline Deviation" *Charles Toth, Zoltan Koppanyi, Shawn A. Pruchnicki, Seth Young and Matt Romero (#1099)*
- "Asiana Tragedy Creates Opportunity for Collaborative ARFF Research" *Rene Herron & M.K. Gorman (#1075)*
- "A Meta-Analysis of Crew Resource Management/Incident Command Systems Implementation Studies in the Fire and Emergency Services" *John Griffith, Donna Roberts & Ronald Wakeham (#1074)*
- "Recordkeeping for FAA Compliance for 139 and ARFF" *Lorena de Rodriguez (#1087)*
- "Third Party Airport Crash Risk Model for Non-Towered Airports" *Christian Salmon (#1179)*
- "Examination of General Aviation Airport Performance" *Christopher Lyons (#1180)*

3:00 p.m. -3:30 p.m.

Session XII – Break with Exhibitors/Sponsor Posters UCC

Sponsored by: David Robertson, Trustee Embry-Riddle Aeronautical University

Chair: Merrie Heath

3:30 p.m. -5:00 p.m. Concurrent Sessions

Session XIII – PR Safety Systems CACTUS

Chair: Nanette Scarpellini-Metz

- "SMS & MROs" *Stewart Schreckengast, Douglas Drury (#1103)*
- "Airport SMS Software Analysis" *Shawn Pruchnicki, Seth Young, Michael Robertson, Brian Strempkowski and Yamini Gowda. (#1101)*
- "Peer Reviewed Safety Management Systems (SMS): Collaboration for Continuous Improvement" *Michael Canders (#1128)*
- "The Implementation of SMS in Maintenance Operations" *Daniel Siao (#1137)*
- "Post-Secondary Academic Safety Programs, and the Need for a Practicum in Training" *Timothy Holt (#1119)*

Session XIV – PR UAS & Cyber: Leadership for the Future HAC 1-3

Chair: Robert Mansfield, Brig. Gen, USAF (Ret.)

- "Aerospace Renaissance – Ripe for Research to Impact the Industry" *Robert Mansfield, Brig. Gen, USAF (Ret.) Kees Rietsema and Robert Materna (#1169)*

Session XV – PR Human Factors, Aviation Psychology and Safety UCC 4

Chair: Erin Bowen

- "System Wide Trust: The Contagion Effect from Automation to Human" *Rian Mehta, Stephen Rice, Scott Winter & Korhan Oyman (#1068)*
- "Evaluating New Hire Pilot Attitude and Behavior with Probationary Assessments" *Arianna Hoffmann (#1126)*
- "Chinese Aviation Maintenance Professionals: The Relationship between Occupational Stresses, Coping Mechanisms and Work Performance" *Yu Wang & Julius Keller (#1091)*
- "Managing Human Factor" *Susan K. Archer (#1151)*

Session XVI – (PR) Aerospace/Aviation Technology and Applications UCC 1-2

Chair: Mary O'Reilly

- "Use of Data from the International Space Station and Automated Interplanetary Spacecraft for Initializing and Running NASA Community Coordinated Heliosphere Model in the Space Weather Classroom" *Dorothea Ivanova (#1094)*
- "Development of a robust two-component balance for wind tunnel investigation of wingsuit aerodynamics" *Timothy Sestak (#1153)*
- "Technological Advancements in Night Vision Flight" *Dawn Groh (#1154)*
- "The Maturing Promise of Electric Flight" *Bob Moser (#1155)*
- "Collegiate Private Pilot Ground School and Tablet Technology Integration" *P.M. Dittmer and Mark Sherman (#1164)*

5:00 p.m.	Alumni Reception Sign-In	UCC Foyer
5:00 p.m.	Faculty and Graduate Student Poster Setup	UCC
5:30 p.m. -8:00 p.m.	**Session XVII – Faculty & Graduate Student Poster Presentations** *Session and Prizes Presented by: Embry-Riddle Worldwide*	UCC

Chair: David Ison Co-Chair: Mary Fink

Discussants/Judges: All A³IR Con Attendees

SEE PROGRAM INSERT

5:30 p.m. -8:00 p.m.	ERAU Alumni Association Sponsored Reception *(Hearty hors d'oeuvres/cash bar)*	UCC

Chair: Michelle Day

SATURDAY, JANUARY 17

6:00 a.m. -8:30 a.m.	Complimentary Breakfast at Each Hotel, On Your Own	
7:30 a.m.	Volunteer and Staff Meeting	UCC Foyer

Chair: Dawn Marcuse

8:00 a.m.	UGR Bus Departs Prescott, AZ *(Breakfast sponsored by Sodexo)*	Hazy Library

Chair: Anne Boettcher
Co-chair: Akos Delnecky, Student Lead: Krystal Megha

8:00 a.m. -6:00p.m.	Registration & Help Desk	UCC Foyer
8:00 a.m. -3:00 p.m.	UAS Demo Ready Room	UCC 2

8:30 a.m. -10:15 a.m. Concurrent Sessions

Session XVIII – PR Aviation Curriculum, Faculty Research & Instruction — UCC 4

Chair: Robin Sobotta

- "Low Fidelity Flight Simulation in Collegiate Aviation" *Vladimir Risukhin (#1083)*
- "Can True Course Simulations Reduce the Cost of Pilot Training?" *Ray Bedard (#1156)*
- "Microcontrollers in the Aviation Classroom" *Padraig Houlahan (#1133)*
- "Regional Airlines Early Career Pilot Attributes Study" *Stewart Schreckengast (#1150)*
- "Examining the Organizational Dynamics of Successful Secondary Aviation/ Aerospace Education Programs" *Susan K. Archer (#1152)*
- "Differences in Student Attitudes Towards Faculty Between Online and Brick & Mortar Aviation Institutions" *Peter Dittmer (#1163)*

Session XIX – PR Cyber Security, Human Security & Global Intelligence Security — UCC 3

Chair: Matt Romero

- "Cyber Security and the Internet of Things" *Jon Haass (#1121)*
- "The Value of Professional Security Industry Certifications" *Daniel Benny (#1131)*
- "Airline Consumers' Perception of Transport Security Administration's Prohibited Items" *Clayton D'Souza, Scott Winter, Rian Mehta, Stephen Rice & Alan Brown (#1073)*
- "Use of UAS in Proxy Warfare" *Ty Groh (#1125)*
- "UAS Threats in Sport Venues" *Ty Groh, Tom Foley (#1124)*

Session XX – PR Aerospace Technology & Meteorological Science — HAC 1

Chair: Royce Ann Martin

- "Global Weather" *Tom Sieland (#1160)*
- "Application of Meteorology Observations from Technology Advanced Aircraft (TAA) to Support Flight Training Operations and Regional Forecasting" "Weather Data Access via ADS-B" *Erica Diels, Melanie Wetzel, Mark Sinclair, Curtis James & Jennah Perry (#1158)*
- "Turbulence Estimation from Aircraft and Sounding Data" *Mark Sinclair, Erica Diels & Melanie Wetzel (#1115)*
- "Aviation Security Impacts of Meteorological and Climatic Disruption" *Melanie Wetzel (#1136)*
- "Unlocking the Mysteries of Flight: From the Top Down" *Juan Merkt (#1145)*

8:30 a.m. -10:15 a.m. **Session XXI – (PR) Global Concerns in Aviation Diversity, Inclusion and World Concerns** HAC 3

Chair: Patti Clark

- "Women in Aviation: Have We Reached Our Ceiling Yet?" *Patti Clark, Gloria Wilson, & Linda Weiland (#1086)*
- "Assessing the Commercial Aviation Impact of the Year 2000 Open Skies Agreements Between the United States and African Countries with Longstanding Flights" *Micah Walala and Tyler B. Spence (#1165)*
- "Analyzing the Importance of Aviation Diversity and Inclusion" *Linda Weiland (#1132)*
- "Examining Operator Training for Mitigation of Negative Consequences of Cockpit Automation" *James Weaver (#1095)*

HIGH SCHOOL – *Special Track for Invited High School Students and Faculty*
Moderator Tim Holt
Presented by Embry-Riddle Prescott Admissions

10:00 a.m. -10:30 a.m. High School Registration (PC Admissions) DRURY Lobby

10:30 a.m. -11:00 a.m. **Session XXII – High School Student, Career, Networking** DRURY

Chair: Tim Holt and Co-Chair: Sara Bofferding

- "Welcome" *Sara Bofferding*
- "The Importance of UGR" *Jackie Luedtke*
- "UGR Example" *Michelle Bennett*

11:15 a.m. -11:30 a.m. Transition from Drury to Hilton UCC

11:30 a.m. -1:00 p.m. **Session XXIII – Lunch and Poster Session Competition** UCC
Sponsored by Prescott Admissions

Host: *Becca Rother*

1:00 p.m. -1:15 p.m. **Session XXIV – Aerial Robotics Demo II** *(High School & Media)* UCC Patio

Chair: Vince Pujalte and Co-Chair: Andrew Grant

1:15 p.m. -1:30 p.m. Transition from Hilton UCC to Drury

1:30 p.m. -2:00 p.m. **Session XXV – High School Session Finale** DRURY

Co-Chairs: Sara Bofferding & Tim Holt

- "Fast Start Briefer" *Jerry Kidrick & Juan Merkt*
- UAV Distribution

A³IR UNDERGRADUATE RESEARCH EXTRAVAGANZA 2015

Moderator Scott Burgess
Presented by ERAU Worldwide

10:15 a.m. -11:00 a.m.	Undergrad Poster Presentation Setup *Chair: Scott Burgess*	UCC
10:15 a.m. -11:00 a.m.	**Break and Networking Opportunity** *Sponsored by ERAU Marketing and Enrollment Management*	
11:00 a.m. -11:15 a.m.	**Session XXVI – Aerial Robotics Demo I for A³iR CON Participants & Media** *Chair: Vince Pujalte and Co-Chair: Andrew Grant*	UCC Patio
11:30 a.m. -1:00 p.m.	**Session XXVII – UGR Opening: Scott Burgess: Sponsor Announcements / Instructions** *Introduction by Hon. Robert Sumwalt, Member National Transportation Safety Board*	UCC
	Session XXVIII – Undergraduate Research I - Student Poster Presentations *Session and Prizes Presented by Embry-Riddle Worldwide* *Chairs: Anne Boettcher and Kelly George* *Discussants/Judges: All A³IR Con Attendees* SEE PROGRAM INSERT	UCC
11:30 a.m. -1:00 p.m.	**Session XXIX – Lunch and Poster Session Competition** *Sponsored by ERAU - Prescott Admissions* *Host: Becca Rother*	UCC
1:00 p.m. -1:15 p.m.	**Session XXX – Aerial Robotics Demo II** *(High School & Media)* *Chair: Vince Pujalte and Co-Chair: Andrew Grant*	UCC Outdoor Area
1:30 p.m. -2:00 p.m.	**Session XXXI – Meet the UAS Demo Team and See UAVs Up Close** *Chair: Vince Pujalte and Co-Chair: Andrew Grant*	UCC

1:30 p.m. -1:50 p.m. Concurrent Sessions

Session XXXII – Block I Discovering Undergraduate Research Across Academia

Research Roundtables; A HAC 1

Global Security, Cyber Intelligence, Systems Safety including Fire, Law Enforcement, Emergency Response

Chair: Jon Haass
Discussants: Ron Wakeham, Daniel Benny, M.K. Gorman

Research Roundtables; B HAC 2

UAS, Maintenance, Military, Space

Chair: Ty Groh
Discussants: Vince Pujalte, Patti Clark, Linda Weiland, Sarah Nilsson

Research Roundtables; C HAC 3

Human Factors, CRM, Aviation Psychology, Accident Investigation, Aviation Safety, Fractional Ownership and Business, Corporate and General Aviation

Chair: Kat Moran
Discussants: Nanette Scarpellini-Metz, Scott Burgess, David Ison

2:00 p.m. -2:50 p.m. Concurrent Sessions

Session XXXIII – Block II Applying Undergraduate Research in our Disciplines

Research Roundtables; D HAC 1

Global Security, Cyber Intelligence, Systems Safety including Fire, Law Enforcment, Emergency Response

Chair: Jon Haass
Discussants: Ron Wakeham, Daniel Benny, M.K. Gorman

Research Roundtables; E HAC 2

UAS, Maintenance, Military, Space

Chair: Ty Groh
Discussants: Patti Clark, Linda Weiland

Research Roundtables; F HAC 3

Human Factors, CRM, Aviation Psychology, Accident Investigation, Aviation Safety, Fractional Ownership and Business, Corporate and General Aviation

Chair: Kat Moran
Discussants: David Ison, Scott Burgess

1:00 p.m. -6:00 p.m.	**Desserts, Snacks & Drinks** *Sponsored by Talon Systems*	UCC 1-4
3:00 p.m. -5:00 p.m.	**Session XXXIV - AOPA Air Safety Institute Seminar for General Public with FAA WINGS Credit** *(*FREE* - RSVP Required)*	UCC 1-4
	AOPA Post-Crash Survivability Presentation (Local Alumni, Undergrad and High School attendees welcome, limited to 180 seats) *Chair: Brian Roggow*	
5:00 p.m.	Bus Departs Hilton for Prescott *(snacks and water bottles provided)*	UCC FOYER
5:00 p.m. -6:00 p.m.	**Session XXXV – A³IR CON STAFF MEETING**	UCC 1-4
	Chairs: Nanette Scarpellini-Metz, David Worrells, Mary Fink	
6:00 p.m.	On-Your-Own for Evening	

SUNDAY, JANUARY 18

6:00 a.m. -9:30 a.m.	Complimentary Breakfast at Each Hotel, On Your Own	
9:30 a.m. -Noon	**Session XXXVI – A³IR CON**	HAC
	Chairs: Mary Fink, Nanette Scarpellini-Metz, David Worrells, Scott Burgess Attending and contributing will result in co-authorship. **The communiqué document will be Peer Reviewed prior to publication in the 2015 Proceedings.*	
Noon -5:00 p.m.	**Session XXXVII – Cultural excursions as directed by hotel staff: Museums, golf, tennis, hiking, shopping, casinos, etc.**	
	Chairs: Hilton Desk Staff	
6:00 p.m.	On-Your-Own for Evening	

Inserts containing information not final at printing
will be available in the final program online and in the proceedings

ARIZONA COMMERCE AUTHORITY

Thank you to the Arizona Commerce Authority
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A3IR conference

EMBRY-RIDDLE Aeronautical University

Aviation, Aeronautics, Aerospace International Research Conference

Make plans to return to Arizona in 2016!

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January 14-17

Location TBA

Want to be in the know when we unveil the location for A3iR 2016?
Send an email request to
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IJAAA International Journal of Aviation, Aeronautics, and Aerospace

The IJAAA is a peer-reviewed, online publication for scholars from a variety of backgrounds including educators, industry personnel, and government researchers.

The editorial focus is on the global issues that are currently facing the aviation, aeronautics, and aerospace segments. Submissions should be well-researched articles utilizing both sound methodologies and the most current references related to the topic. The Journal also accepts book reviews and non-peer-reviewed position papers on contemporary issues.

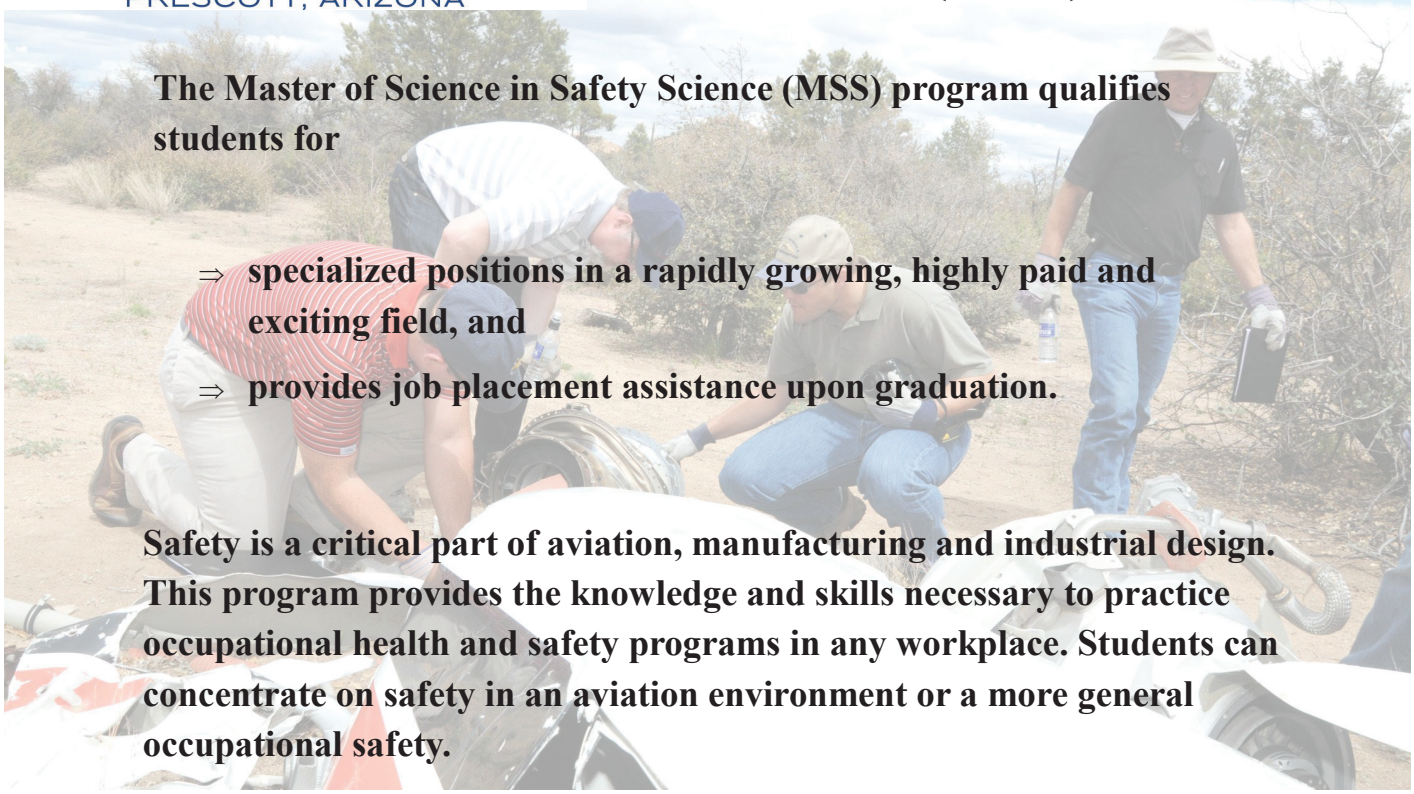
The Journal is an online, refereed publication in which manuscripts are blindly reviewed by members of the editorial staff and industry or academic reviewers with experience related to the article topic. Acceptance and publication are conducted on a rolling basis and the goal of the Journal is to provide writers with an outstanding publication experience. It is the aim of the Journal to provide authors with a decision on their article within two weeks of submission acceptance.

Please submit your article to: wwijaaa@erau.edu

EMBRY-RIDDLE Aeronautical University

EMBRY-RIDDLE Aeronautical University PRESCOTT, ARIZONA

Master of Science in Safety Science (MSSS)



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A³IR conference

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EMBRY-RIDDLE Aeronautical University™

Prescott, Arizona

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