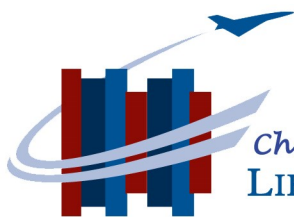


Scholarly Speaking 2016



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- Research
- Service
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Faculty Speakers

Prof. Dawn Groh
College of Aviation

Dr. Stephen Bruder
College of Engineering

Bibliography
of
Publications & Presentations
in 2015

Embry-Riddle
Aeronautical University
Prescott Campus
Community

March 31, 2016



Mehran Andalibi

College: Engineering

Department: Aerospace & Mechanical Engineering

Research Areas: Autonomous systems; Computer vision; Machine learning.

2015 Scholarly Activity:

Andalibi, Mehran; Z. P. Barbeau, S. D. Fehrenbach, J. D. Jacob, and G. Chowdhary. "System Development for the NASA UAS Airspace Operations Challenge." *15th American Institute of Aeronautics and Astronautics (AIAA) Aviation Technology, Integration, and Operations Conference*. Dallas, TX. 22-26 June 2015.

Andalibi, Mehran; D. Chandler. "Digital Image Watermarking via Adaptive Logo Texturization", *IEEE Transactions on Image Processing*. Volume 24, Issue 12. Dec. 2015. Pages 5060-5073.

Andalibi, Mehran; D. Gabbert and J. D. Jacob, "System Development for Wildfire SUAS." *33rd American Institute of Aeronautics and Astronautics (AIAA) Applied Aerodynamics Conference*. Dallas, TX. 22-26 June 2015.

Andalibi, Mehran; L. L. Hoberock, and H. Mohamadipanah. "Effects of Texture Addition on the Optical Flow Performance in Images with Poor Texture." *Image and Vision Computing*. May 2015. Pages 1-15.

Andalibi, Mehran; L. L. Hoberock and H. Mohamadipanah. "Predictive Model Reference Adaptive Control to Compensate Heart Motion in Minimally Invasive CABG Surgery." *Cardiovascular Engineering and Technology*. Volume 6, Issue 3. Sept. 2015. Pages 329-339.

Quentin G. Bailey

College: Arts & Sciences

Department: Physics & Astronomy

Research Areas: Theoretical and experimental aspects of testing special and general relativity.



2015 Scholarly Activity:

Bailey, Quentin G. "Spacetime Symmetry and Gravity." *IAP Seminar*. Institut D'Astrophysique de Paris. 22 June 2015. Invited Presentation.

Bailey, Quentin G.; Brett Altschul, et al. "Quantum tests of the Einstein Equivalence Principle with the STE-QUEST space mission." *Advances in Space Research*. Volume 55, Issue 1. Jan. 2015. Pages 501-524.

Bailey, Quentin G.; Aurélien Hees, Christophe Le Poncin-Lafitte, et al. "Testing Lorentz symmetry with planetary orbital dynamics." *Physical Review D – Particles, Fields, Gravitation and Cosmology*. Volume 92, Issue 6. Sept. 2015. Article Number 064049.



Angela Beck

College: Arts & Sciences

Department: Humanities & Communications

Research Areas: Sociocognitive theories of language acquisition and expertise, especially as they apply to composition studies; Team-teaching and collaborative education; Writing for specific purposes; Strategy instruction especially applied to the teaching of technical writing.

2015 Scholarly Activity:

Beck, Angela; Jim Helbling. "From One to Many: Building an Effective Teaching Team for Capstone Courses."

Proceedings of the 2015 American Society for Engineering Education Pacific Southwest Conference.

San Diego, CA. 9-11 Apr. 2015.

Richard W. Bloom, Chief Academic Officer

College: Security & Intelligence

Research Areas: Aviation intelligence and security systems; Profiling; Terrorism, anti-terrorism, and counterterrorism; Threat, vulnerability, and risk assessment; Intelligence collection and analysis, covert action, and counterintelligence; Personnel security; The psychology of information warfare; Critiques of post-modernism and post-structuralism in the contexts of psychological assessment and hermeneutics historical narrative.



2015 Scholarly Activity:

Bloom, Richard W. "Ain't that peculiar? Peculiar as can be. Review of The Personality of Henry Cavendish—A Great Scientist with Extraordinary Peculiarities." *PsycCRITIQUES*, Volume 60, Issue 8. 2015.

Bloom, Richard W. "Can we talk? Review of Psychotherapy Case Formulation." *PsycCRITIQUES*, Volume 60, Issue 51. 2015.

Bloom, Richard W. (2015). "The D work in a D world. Review of Detecting Deception: Current Challenges and Cognitive Approaches." *PsycCRITIQUES*, Volume 60, Issue 32. 2015.

Bloom, Richard W. (Chair). "Malaysia Airlines Flight 370: Implications for applied research in security, emergency management, and safety." Annual Meeting, Transportation Research Board. Washington, DC. 11-14 Jan. 2015.

Bloom, Richard W. (Chair). "Narcotics smuggling operations as portal for introduction of terrorist devices into commercial aviation aircraft." Annual Meeting, Transportation Research Board. Washington, DC. 11-14 Jan. 2015.

Bloom, Richard W. (2015). Presentations to various special interest groups: (1) Is the United States-Iran nuclear weapons development deal the right deal?; (2) Operational issues for first-responders to terrorism; and (3) National strategic security issues: 2015 and into the future.



Ken Bordignon

College: Engineering

Department: Aerospace & Mechanical Engineering

Research Areas: [Control allocation for redundant systems.](#)

2015 Scholarly Activity:

Bordignon, Kenneth; Iacopo Gentilini, Kevin Vicencio, and Tristan Korras. "Energy-Optimal Path Planning for Six-Rotors on Multi-Target Missions." *2015 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*. Hamburg, Germany. 28 Sept. – 2 Oct. 2015.

Brent Bowen

College: Aviation, Dean

Department: Aeronautical Science

Research Areas: Measurement of airline operational performance and quality;
Collegiate aviation education and scholarship; Research methods in aviation.



2015 Scholarly Activity:

- Bowen, Brent D.; Erin E. Bowen, Chrissy M. Clary, Michelle Bennett, and Krystal Megha. "Utilizing Macro Data to Create a Micro Experience: Personalizing the Air Passenger Selection Process." *International Symposium for Aviation Psychology*. Columbus, OH. May 2015.
- Bowen, Brent; Mary Fink, et.al. (Eds.). *Proceedings of the Aviation/Aeronautics/ Aerospace International Research Conference*. Scholarly Commons, Hazy Library and Learning Center, Prescott, AZ. Mar. 2015.
- Bowen, Brent; Mary Fink, Juan Merkt, Tim Sestak., et al. "Conference Communiqué and Results of the Aviation/Aeronautics/Aerospace International Research Conference (A³iR Con)." Phoenix, AZ. 15-18 Jan. 2015.
- Bowen, Brent; Jacqueline Luedtke and Michelle Bennett. "Comparative Analysis of the U.S. Airline Industry." Poster presentation at the Arizona Nevada Academy of Science. Arizona State University, Phoenix, AZ. 18 Apr. 2015.
- Bowen, Brent; Jacqueline Luedtke, Michelle Bennett, and D. Headley. "Benchmarking Economic Trends and Airline Performance." *Proceedings of the University Aviation Association Fall Education Conference*. Salt Lake City, UT. 7-9 Oct. 2015.
- Bowen, Brent; Jacqueline Luedtke, and Dawn Groh. "Undergraduate Research Outcomes Resulting from an Intensive Capstone Experience." *Proceedings of the University Aviation Association Fall Education Conference*. Salt Lake City, UT. 7-9 Oct. 2015.
- Bowen, Brent; Juan Merkt, Dawn Groh., Jacqueline Luedtke, and Scott Ritchie. "Retention and Student Success in University Flight Training Programs: A Model Process Plan." *Proceedings of the University Aviation Association Fall Education Conference*. Salt Lake City, UT. 7-9 Oct. 2015.

Brent Bowen (continued)

2015 Scholarly Activity:

Bowen, Brent; D. Ison, J. Mott, et al. "Research and Scholarship: An Interactive Discussion with Journal Editors and More." Round table discussion. Proceedings of the Aviation/Aeronautics/ Aerospace International Research Conference (A3iR Con). Phoenix, AZ. 15-18 Jan. 2015.

Bowen, Brent; C. Willard, Michelle Bennett, and Jacqueline Luedtke. "A Trend Analysis Comparing Qualitative and Quantitative Performance Data on Economic Indices." Abstract presented at the 7th Annual Undergraduate Research Symposium. Embry-Riddle Aeronautical University, Prescott, AZ. Oct. 2015.

Bowen, Brent; Michelle Bennett, and Jackie Luedtke. "Comparative Analysis Applied to the U.S. Airline Industry. *Proceedings of the Aviation/Aeronautics/ Aerospace International Research Conference (A³iR Con)*. Phoenix, AZ. 15-18 Jan. 2015. Undergraduate Poster Session.

Bowen, Brent; Michelle Bennett, and Jacqueline Luedtke. "A concept Model for Comparative Analysis Applied to the U.S. Airline Industry." *ERAU URI Discovery Day*. Prescott, AZ. 10 April 2015.

Erin Bowen

College: Arts & Sciences

Department: Behavioral & Safety Sciences, Department Chair

Research Areas: Industrial psychology and safety; Aviation psychology; Safety culture; Statistical research; Methodological assessment methods in safety.



2015 Scholarly Activity:

Bowen, Erin E. "Current issues in commercial air travel: The passenger perspective." *27th Annual Ethnographic and Qualitative Research Conference*. Las Vegas, NV. 9-10 Feb. 2015.

Bowen, Erin E. "The growth of discipline-specific undergraduate programs in Psychology." *18th Annual American Association of Behavioral and Social Sciences Conference*. Las Vegas, NV. 9-10 Feb 2015.

Bowen, Erin E. "Human error: Psychology, aviation, and public (mis)perceptions in recent accidents." *International Air Transport Association (IATA) Communicators Workshop*. Miami, FL. Oct. 2015. Invited keynote presentation.

Bowen, Erin E.; W. Alsumiri and W. Waldock. "Human factors issues in UAV accidents: Considerations in UAS development." *18th International Symposium on Aviation Psychology*. Dayton, OH. 4-7 May 2015.

Bowen, Erin E.; Brent D. Bowen, Chrissy M. Clary, M. M. Bennett, and Krystal M. Megha. "Utilizing macro data to create a micro experience." *18th International Symposium on Aviation Psychology*. Dayton, OH. 4-7 May 2015.

Bowen, Erin E. – Interviewed: Finrock, Rob. "Studies in Aviation Psychology Open Doors to a Diverse Range of Careers: What aviation careers in psychology and human performance are available?" *Flying Magazine*. 4 Feb. 2015. Media appearance – Interview for online article.

Bowen, Erin E. – Interviewed: Grisham, Lori; Bart Jansen. "Airlines largely rely on pilots 'self-monitoring' mental health." *USA Today*. 26 Mar. 2015. Media appearance – Interview.

Bowen, Erin E. – Interviewed: Mangla, Ismat Sarah. "Commercial Airline Pilots May Face Stricter Psych Evaluations In Wake of Germanwings Flight 9525." *International Business Times*. 26 Mar. 2015. Media appearance – Interview for online article.

Bowen, Erin E. – Interviewed: Tapper, Jack. Germanwings Pilot segment. 30 Mar. 2015. Media appearance – Interview.

Bowen, Erin E. – Interviewed: "How to Put Better Pilot Screening in Place." *BloombergBusiness*, 30 Mar. 2015. Media appearance - Live Interview.

Bowen, Erin E. – Interviewed: "Is the Germanwings Tragedy a 'Mental Health Failure'?" *Meet the Press*. 29 Mar. 2015. Media appearance - Live Interview.



Leeann Chen

College: Arts & Sciences

Department: Humanities & Communications

Research Areas: Foreign-language and Chinese as a foreign language pedagogy;
Study abroad; College writing in a specialized discipline.

2015 Scholarly Activity:

Chen, Leeann. "ERAU Chinese Language Assessment." *Assessment Session at Project GO Annual Conference*.

University of Mississippi. 16 Mar. 2015.

Chen, Leeann. "Teaching Training at the Advanced Level", *Chinese Teaching Training Conference*. Beijing,

China. July 2015.

Nick Devereux

College: Arts & Sciences

Department: Physics & Astronomy

Research Areas: Astronomy; Theoretical computer science and applied mathematics.



2015 Scholarly Activity:

Devereux, Nick. "Giant Broad Line Regions in Dwarf Seyferts." *Journal of Astrophysics and Astronomy*. Volume 36, Issue 4. Dec. 2015. Pages 427-432.



Erica Diels

College: Aviation

Department: Aeronautical Science

Research Areas: Attitudes in commercial pilot training.

2015 Scholarly Activity:

Diels, Erica; J. Howrey, Brian Peacock, and Gary Northam. "The Geometry of Near Midair Collisions." *Proceedings of the Chartered Institute of Ergonomics and Human Factors annual Human Factors in Aviation Safety Conference*. Staverton Park, Daventry, Northamptonshire, UK. 13-16 Apr. 2015.

Diels, Erica; Mark R. Sinclair, and Melanie A. Wetzel. "Turbulence Estimation from Aircraft and Sounding Data." *Proceedings of the Aviation/Aeronautics/ Aerospace International Research Conference (A³iR Con)*. Phoenix, AZ. 15-18 Jan. 2015.

Diels, Erica; Melanie Wetzel, Mark R. Sinclair, Curtis N. James, and Jennah Perry. "Application of Meteorological Observations from Technologically Advanced Aircraft (TAA) to Support Flight Training Operations and Regional Forecasting." *Proceedings of the Aviation/Aeronautics/ Aerospace International Research Conference (A³iR Con)*. Phoenix, AZ. 15-18 Jan. 2015.

Hillary Eaton

College: Arts & Sciences

Department: Biology

Research Areas: Microbiology; Bioremediation; Toxicology.



2015 Scholarly Activity:

Eaton, Hillary. "Microbes to the Rescue of Planet Earth!" *ERAU Prescott Science Speaker Seminar Series / AC-1*.

11 Sept. 2015.

Eaton, Hillary. "New degree program at ERAU offers multiple possibilities." *The Daily Courier*. Prescott, AZ.

8 Feb. 2015.

Eaton, Hillary; H. E. Fuller, P. B. Hatzinger, C. W. Condee, C. Andaya, S. Vainberg, M. M. Michalesen, F. H.

Crocker, K J Indest, C M Jung, J. D. Istok. "Laboratory evaluation of bioaugmentation for aerobic treatment of RDX in groundwater." *Biodegradation*. Volume 26, Issue 1. Feb. 2015. Pages 77-89.

Eaton, Hillary – Interviewed: Figueroa, Emma. "A Look into the New Wildlife Studies Degree Program."

ERAU Horizons. Issue 3, Volume 32, A4. 9 Sept. 2015. Interview.

Eaton, Hillary – Interviewed: Figueroa, Emma. "New Forensic Biology Major to Expand Campus' Vision."

ERAU Horizons. Issue 3, Volume 31, A5. 8 Apr. 2015. Interview.

Eaton, Hillary – Interviewed: Stewart, Michaela. "Science Seminar: Microscopic Heroes Offer Solutions."

ERAU Horizons. Issue 2, Volume 32. 15 Sept. 2015. Interview.



Thomas Field

College: Security & Intelligence

Department: Intelligence Studies & Global Affairs

Research Areas: International history of Latin America; Cold War in the Third World; Third World diplomatic history; Contemporary Bolivian history.

2015 Scholarly Activity:

From Development to Dictatorship named a 2015 Outstanding Academic Title, *Choice* magazine.

Thomas McGann Book Award 2015, Rocky Mountain Council for Latin American Studies.

Field, Thomas. Commentator, "New Approaches to the History of Development in U.S.-Latin American Relations." *Society for Historians of American Foreign Relations*. 2015 Annual Meeting. Arlington, VA. 25-27 June 2015.

Field, Thomas. "Bolivia: A Splintering Left and the Failure of Armed Struggle, 1963-65." *Conference on Latin American History Annual Meeting*. New York, NY. 2-5 Jan. 2015.

Field, Thomas. "A General with a Social Conscience: René Barrientos, Authoritarian Development, and the Struggle for Cold War Bolivia." *Rocky Mountain Council on Latin American Studies*. Tucson, AZ. 9-11 Apr. 2015, and at the *Annual Conference of the Latin American Studies Association*. San Juan, PR. 27-30 May 2015.

Field, Thomas. "La Ruptura Diplomática con Cuba y la Caída de la Revolución Boliviana." *Conference on the Cuban Revolution*. Havana, Cuba. 13-15 Oct. 2015.

Field, Thomas. Review of "Becoming 'Mr. Latin America': Thomas C. Mann Reconsidered," by Thomas Tunstall Allcock. *Diplomatic and International History Discussion Network* [H-Diplo]. 25 Apr. 2015.

Field, Thomas. Review of "*Rhythms of the Pachakuti: Indigenous Uprising and State Power in Bolivia*," by Raquel Gutiérrez Aguilar." *Canadian Journal of History / Annales Canadienne d'Histoire*. Volume 50, Issue 3. 2015. Pages 568-570.

Field, Thomas. Response to Roundtable Review of *From Development to Dictatorship: Bolivia and the Alliance for Progress in the Kennedy Era*, by Thomas C. Field Jr. *Diplomatic and International History Discussion Network* [H-Diplo]. 30 Mar. 2015.

Thomas Foley

College: Security & Intelligence

Department: Intelligence Studies & Global Affairs

Research Areas: School shootings, school security, active shooter, workplace violence, behavioral threat assessment, and securing large venues from drone threats.



2015 Scholarly Activity:

Foley, Thomas; Tyrone Groh. "UAS Threats in Sport Venues." *Proceedings of the Aviation/Aeronautics/Aerospace International Research Conference (A³iR Con)*. Phoenix, AZ. 17 Jan. 2015.



Jonathan Gallimore

College: Arts & Sciences

Department: Behavioral & Safety Sciences

Research Areas: Action and perception; Working memory; Transportation research; Aviation psychology.

2015 Scholarly Activity:

Gallimore, Jonathan M.; L. M. Fournier. "Proximal and distal effects in action plan representation." *Fifty-Sixth Annual Meeting of the Psychonomics Society*. Chicago, IL. 19 – 22 Nov. 2015.

Gallimore, Jonathan M.; Jennah C. Perry. "True course simulations: Will this reduce flight costs and decrease certification time?" *Proceedings of the Aviation/Aeronautics/ Aerospace International Research Conference (A³iR Con)*. Phoenix, AZ. 15-18 Jan. 2015.

Gallimore, Jonathan M.; Russell Romeo. "Are we safe yet: Discriminating pilot performance based on safety climate." *The 18th International Symposium on Aviation Psychology*. Dayton, OH. 4-7 May 2015.

Iacopo Gentilini

College: Engineering

Department: Aerospace & Mechanical Engineering

Research Areas: Robotics.



2015 Scholarly Activity:

Gentilini, Iacopo; Kevin Vicencio, Tristan Korras, and Kenneth A. Bordignon. "Energy-Optimal Path Planning for Six-Rotors on Multi-Target Missions." *2015 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*. Hamburg, Germany. 28 Sept. – 2 Oct. 2015.



Cindy Greenman

College: Arts & Sciences

Department: Business

Research Areas: Accounting ethics.

2015 Scholarly Activity:

Greenman, Cindy; Karuri Mwangi. "Does Technology make a Difference in Student Success in an Accounting Classroom?" *American Journal of Educational Research*. Volume 3, Issue 9. 2015. Pages 141-1138.

Dawn Groh

College: Aviation

Department: Aeronautical Science

Research Areas: Undergraduate research capstone models in aviation degree programs, retention in higher education flight training.



2015 Scholarly Activity:

Groh, Dawn. "The Evolution of Night Vision Systems." *Proceedings of the Aviation/Aeronautics/ Aerospace International Research Conference (A³iR Con)*. Phoenix, AZ. 16 Jan. 2015.

Groh, Dawn; Jacqueline Luedtke, and Brent Bowen. "Undergraduate Research Outcomes Resulting from an Intensive Capstone Experience." *Proceedings of the University Aviation Association Fall Education Conference*. Salt Lake City, UT. 7-9 Oct. 2015.

Groh, Dawn; Juan Merkt, Jacqueline Luedtke, Brent Bowen, and Scott Ritchie. "Retention and Student Success in University Flight Training Programs: A Model Process Plan." *Proceedings of the University Aviation Association Fall Education Conference*. Salt Lake City, UT. 7-9 Oct. 2015.



Tyrone Groh

College: Security & Intelligence

Department: Intelligence Studies & Global Affairs

Research Areas: International Relations.

2015 Scholarly Activity:

Groh, Tyrone. (Chair). "Applying Undergraduate Research in our Disciplines: UAS, Maintenance, Military, Space." Research Roundtable. *Aviation/Aeronautics/ Aerospace International Research Conference (A³iR Con)*. Phoenix, AZ. 17 Jan. 2015.

Groh, Tyrone (Chair). "Discovering Undergraduate Research across Academia: UAS, Maintenance, Military, Space." Research Roundtable. *Aviation/Aeronautics/ Aerospace International Research Conference (A³iR Con)*. Phoenix, AZ. 17 Jan. 2015.

Groh, Tyrone. "Use of UAS in Proxy Warfare." *Proceedings of the Aviation/Aeronautics/ Aerospace International Research Conference (A³iR Con)*. Phoenix, AZ. 17 Jan. 2015.

Groh, Tyrone; Thomas Foley. "UAS Threats in Sport Venues." *Proceedings of the Aviation/Aeronautics/ Aerospace International Research Conference (A³iR Con)*. Phoenix, AZ. 17 Jan. 2015.

Jon Haass

College: Security & Intelligence

Department: Cyber Intelligence & Security

Research Areas: Cyber security: Securing the Internet of things.



2015 Scholarly Activity:

Haass, J. (Chair). "Applying Undergraduate Research in our Disciplines: UAS, Maintenance, Military, Space."

Research Roundtable. *Aviation/Aeronautics/ Aerospace International Research Conference (A³iR Con)*.

Phoenix, AZ. 17 Jan. 2015.

Haass, J. "Cyber Security and the Internet of Things." *Proceedings of the Aviation/Aeronautics/ Aerospace*

International Research Conference (A³iR Con). Phoenix, AZ. 17 Jan. 2015.

Haass, Jon. "Cyber Workforce of the Future." *CCAITS Information Technology Summit*. Prescott, AZ. June

2015.

Haass, Jon. "Developing a Cyber Workforce - What is needed to meet the NICCS Workforce Framework."

CYBERWEST. Phoenix, AZ. 25-26 Mar. 2015.

Haass, J. (Chair). "Discovering Undergraduate Research across Academia: Global Security, Cyber Intelligence,

Systems Safety including Fire, Law Enforcement, Emergency Response." Research Roundtable.

Aviation/Aeronautics/ Aerospace International Research Conference (A³iR Con). Phoenix, AZ. 17 Jan.

2015.

Haass, Jon. "From Touchdown to Take-off: Cybersecurity on the Tarmac." *Aviation Cyber Security Summit*.

Washington DC. 16-18 Nov. 2015.

Haass, Jon C.; Gail-Joon Ahn, and Frank Grimmelmann "ACTRA – A Case Study for Threat Information Sharing."

ACM Journal of Computer and Communications Security. Oct. 2015.



James Helbling

College: Engineering

Department: Aerospace & Mechanical Engineering

Research Areas: Structural fatigue life prediction.

2015 Scholarly Activity:

Helbling, Jim; Angela Beck. "From One to Many: Building an Effective Teaching Team for Capstone Courses."

Proceedings of the 2015 American Society for Engineering Education Pacific Southwest Conference.

San Diego, CA. 9-11 Apr. 2015.

Dorothea Ivanova

College: Aviation

Department: Applied Aviation Sciences

Research Areas: Cloud physics; Climate variability studies; Atmospheric modeling; Global and regional climate models.



2015 Scholarly Activity:

Ivanova, Dorothea. "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." *Proceedings of the Aviation/Aeronautics/ Aerospace International Research Conference (A³iR Con)*. Phoenix, AZ. 15-18 Jan. 2015.

Ivanova, Dorothea. "Visible, IR, and Water vapor Satellite Images of a Tropical Cyclone, Coastal Hazards, Risk and Environmental Justice." *NSF-funded InTeGRATE project*. Tulane University. New Orleans, LA. 20-22 May 2015.

Ivanova, Dorothea; David L. Mitchell. "WRF and MM5 Modeling of the 1999 North American Monsoon Onset and the Las Vegas Flood." *2015 AGU-GAC-MAC-CGU Joint Assembly*. Montreal, Canada. 3-7 May, 2015.
Also: *American Meteorological Society. 27th Conference on Climate Variability and Change*. Phoenix, AZ. 4-8 Jan. 2015.

Ivanova, Dorothea; Travis Swaggerty, and Melanie Wetzel. "Prediction and Analysis of a Convective Frontal Passage in the Southwest." *NASA Space Grant Symposium*. Phoenix, AZ. 17-18 Apr. 2015.

Ivanova, Dorothea; Victoria A. Walker. "Ice Crystal Parameterizations in Arctic Cirrus – Towards a Better Representation in Global Climate Models and Aircraft Icing Potential Studies." *American Meteorological Society, Annual Meeting*. Phoenix, AZ. 3-8 Jan. 2015.

Ivanova, Dorothea; Melanie Wetzel, J. R. French, L. D. Oolman, and T. D. Drew. "Deployment of a Research Aircraft for Interdisciplinary Education." *24th Symposium on Education. American Meteorological Society, Annual Meeting*. Phoenix, AZ. 3-8 Jan. 2015.



Curtis N. James

College: Aviation

Department: Applied Aviation Sciences

Research Areas: Mesoscale; Radar; Mountain meteorology.

2015 Scholarly Activity:

James, Curtis N.; Erica Diels, Melanie Wetzel, Mark R. Sinclair, and Jennah Perry. "Application of Meteorological Observations from Technologically Advanced Aircraft (TAA) to Support Flight Training Operations and Regional Forecasting." *Proceedings of the Aviation/Aeronautics/ Aerospace International Research Conference (A³iR Con)*. Phoenix, AZ. 15-18 Jan. 2015.

James, Curtis N.; L. Panziera and U. Germann. "Mesoscale Organization and Structure of Orographic Precipitation Producing Flash Floods in the Lago Maggiore Region." *Quarterly Journal of the Royal Meteorological Society*. Volume 141, Issue 686. Jan. 2015. Pages 224-248.

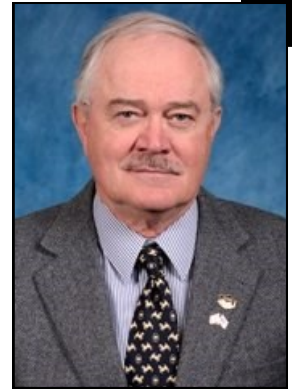
James, Curtis N.; Jeff Weber, Gary R. Woodall, and Brian A. Klimowski. "A Cloud-Based Mobile Weather Server to Support Emergency Response Meteorology Training and Operations." *24th Symposium on Education. American Meteorological Society, Annual Meeting*. Phoenix, AZ. 3-8 Jan. 2015.

James, Curtis N.; Gary R. Woodall and Brian A. Klimowski. "The "Emergency Response Meteorologist" Curriculum Development at Embry-Riddle Aeronautical University, Prescott, AZ." *24th Symposium on Education. American Meteorological Society, Annual Meeting*. Phoenix, AZ. 3-8 Jan. 2015.

Philip Jones

College: Security & Intelligence, Dean

Research Areas: Military, political, and cultural studies of the southwest Asia region.



2015 Scholarly Activity:

Jones, Philip E. "Zulfikar Ali Bhutto: Triumph and Tragedy," in Roger D. Long, *A History of Pakistan*. Pages 246-600. New York: Oxford University Press, 2015.



Eileen Landis-Groom

College: Arts & Sciences

Department: Humanities & Communications

Research Areas: Travel literature; Nonfiction about animals; the teaching of writing; Creative writing.

2015 Scholarly Activity:

Landis-Groom, Eileen. "The Wishes of Mr. Hochstadtler, a Pennsylvania Dutch Man and Therefore, a Pretty Serious Guy" - First place in fiction in the Arizona English Teachers Association's Teachers as Writers Contest.

Connections: News of the Arizona English Teachers Association. Fall 2015. Page 3.

Landis-Groom, Eileen. "Chasing Arizona, a Review." *Connections: News of the Arizona English Teachers Association*. Summer 2015. Page 3.

Landis-Groom, Eileen. "Coming Home to Horses." *Equus*. Nov. 2015. Issue 458. Pages 71-79.

Landis-Groom, Eileen. "The Importance of Images" ERAU – Prescott, College of Liberal Arts & Sciences. *The Black Box*. 2015.

Jacqueline Luedtke

College: Aviation

Department: Applied Aviation Sciences

Research Areas: Aviation safety; Aviation management; Effects of marketing in aviation; Service quality in aviation; Women's contributions to aviation; Retention issues, pedagogical issues in higher education.



2015 Scholarly Activity:

Luedtke, Jacqueline. "High School Student, Career, Networking: The Importance of UGR." *Aviation/ Aeronautics/ Aerospace International Research Conference (A³iR Con)*. Phoenix, AZ. 17 Jan. 2015.

Luedtke, Jacqueline. "Research on Gender Diversity in Aviation: A Twenty-five Longitudinal Study." *Proceedings of the University Aviation Association Fall Education Conference*. Salt Lake City, UT. 7-9 Oct. 2015.

Luedtke, Jacqueline; Michelle Bennett, and Brent Bowen. "Comparative Analysis of the U.S. Airline Industry." Poster presentation at the Arizona Nevada Academy of Science. Arizona State University. Phoenix, AZ. 18 April 2015.

Luedtke, Jacqueline; Brent Bowen, Michelle Bennett, and D. Headley. "Benchmarking Economic Trends and Airline Performance." *Proceedings of the University Aviation Association Fall Education Conference*. Salt Lake City, UT. 7-9 Oct. 2015.

Luedtke, Jacqueline; Dawn Groh, and Brent Bowen. "Undergraduate Research Outcomes Resulting from an Intensive Capstone Experience." *Proceedings of the University Aviation Association Fall Education Conference*. Salt Lake City, UT. 7-9 Oct. 2015.

Luedtke, Jacqueline; Juan Merkt, Dawn Groh, Brent Bowen, and Scott Ritchie. "Retention and Student Success in University Flight Training Programs: A Model Process Plan." *Proceedings of the University Aviation Association Fall Education Conference*. Salt Lake City, UT. 7-9 Oct. 2015.

Jacqueline Luedtke (continued)

2015 Scholarly Activity:

Luedtke, Jacqueline; C. Willard, Michelle Bennett, and Brent Bowen. "A Trend Analysis Comparing Qualitative and Quantitative Performance Data on Economic Indices." Abstract presented at the 7th Annual Undergraduate Research Symposium, Embry-Riddle Aeronautical University. Prescott, AZ. Oct. 2015.

Luedtke, Jacqueline; Michelle Bennett. "The Undergraduate Research Example." Proceedings of the Aviation/ Aeronautics/ Aerospace International Research Conference (A3iR Con). Phoenix, AZ. 15-18 Jan. 2015. Student Career and Networking Session.

Luedtke, Jacqueline; Michelle Bennett, and Brent Bowen. "Comparative Analysis Applied to the U.S. Airline Industry. Proceedings of the Aviation/Aeronautics/ Aerospace International Research Conference (A3iR Con). Phoenix, AZ. 15-18 Jan. 2015. Undergraduate Poster Session.

Luedtke, Jacqueline; Michelle Bennett, and Brent Bowen. "A concept Model for Comparative Analysis Applied to the U.S. Airline Industry." ERAU URI Discovery Day. Prescott, AZ. 10 April 2015.

Luedtke, Jacqueline; Q. Lennex. "Use of UAS for National Park Fire Control." Proceedings of the Aviation/ Aeronautics/ Aerospace International Research Conference (A3iR Con). Phoenix, AZ. 15-18 Jan. 2015. Undergraduate Poster Session.

Lisa Maroni

Department: Center for International Programs and Services (CIPS)

Research Areas: Entrepreneurship and culture.



2015 Scholarly Activity:

Maroni, Lisa, George Puia, Rosalie Stackpole, Zachary Gibson, and Heidi Hicks. "Indulgence, Restraint, and

Within-Country Diversity: Exploring Entrepreneurial Outcomes with New Constructions." Said Business

School – University of Oxford. 22-23 Nov. 2015.



Juan R. Merkt

College: Aviation

Department: Aeronautical Science, Department Chair

Research Areas: Energy management training; Aerospace physiology; Aviation program accreditation; Aviation curriculum development.

2015 Scholarly Activity:

Merkt, Juan R. "Energy Management: Demystifying Altitude and Airspeed Control." *Flight Training*, Volume 27, Issue 8. 2015. Pages 46-49.

Merkt, Juan R. "Solving an Age-Old Debate: What Really Controls Altitude and Airspeed." *Proceedings of the Aviation/Aeronautics/Aerospace International Research Conference (A³iR Con)*. Phoenix, AZ. 16 Jan. 2015.

Merkt, Juan R. "Unlocking the Mysteries of Flight: From the Top Down." *Proceedings of the Aviation/Aeronautics/Aerospace International Research Conference (A³iR Con)*. Phoenix, AZ. 17 Jan. 2015.

Merkt, Juan R.; Mary Fink, Brent Bowen, Timothy A. Sestak, et al. "Conference Communiqué and Results of the Aviation/Aeronautics/Aerospace International Research Conference (A³iR Con)." Phoenix, AZ. 18 Jan. 2015.

Merkt, Juan R.; Dawn Groh, Jacqueline Luedtke, Brent Bowen, and Scott Ritchie. "Retention and Student Success in University Flight Training Programs: A Model Process Plan." *Proceedings of the University Aviation Association Fall Education Conference*. Salt Lake City, UT. 7-9 Oct. 2015.

Merkt, Juan R.; Randall Rehbach, et al. *Self-Study Report for the Aviation Accreditation International Board: Department of Aeronautical Science*. Embry-Riddle Aeronautical University, Prescott Campus. Auburn, AL. May 2015.

Merkt, Juan R. (Moderator) Debate: Academia and Industry Solutions for Implementing the ATP/CTP Course. *Aviation/Aeronautics/Aerospace International Research Conference (A³iR Con)*. Phoenix, AZ. 16 Jan. 2015.

Sarah Nilsson

College: Aviation

Department: Aeronautical Science

Research Areas: Aviation; Space; Unmanned aerial systems law.



2015 Scholarly Activity:

Nilsson, Sarah. "In the Aftermath of Pirker: Questions of Policy Versus Law on Unmanned Aerial Systems (UAS)." *Proceedings to The Citadel 2015 Intelligence and Homeland Security Enterprise Conference*. Charleston, SC. 16-18 Sept. 2015.

Nilsson, Sarah. "Pirker and Beyond: Questions of Policy Versus Law on Unmanned Aerial Systems (UAS)." *Proceedings of the Aviation/Aeronautics/ Aerospace International Research Conference (A³iR Con)*. Phoenix, AZ. 15-18 Jan. 2015. Conference Presentation and associated Scholarly Commons article.

Nilsson, Sarah; J. Scott Hamilton. *Practical Aviation and Aerospace Law*, 6th edition. Chapter 18: Commercial Space Operations. Newcastle, WA: Aviation Supplies and Academics, Inc., 2015.



Nika Nordbrock

College: Arts & Science

Department: Humanities & Communications

Research Areas: Cowboy poetry; Composition; Diversity.

2015 Scholarly Activity:

Nordbrock, Nika. "24th Trappings of the American West." *Rope Burns Magazine*. Fall 2015.

--- "28th Arizona Cowboy Poets Gathering." *Rope Burns Magazine*. Fall 2015.

--- "Cowboy Poetry and the Theater of Your Mind." *46th Annual College English Association Conference*.

Indianapolis, IN. 26-28 March 2015.

--- "Photos from the 28th Arizona Cowboy Poets Gathering." *Rope Burns Magazine*. Fall 2015.

--- "Photos from the 28th Arizona Cowboy Poets Gathering, Cowboy Poetry and Western Life, Aug. 2015."

28th Arizona Cowboy Poets Gathering, Cowboy Poetry and Western Life. Aug. 2015.

--- "Presenter - Cowboy Poetry and Western Life, Aug., 2015." *"28th Arizona Cowboy Poets Gathering."*

Cowboy Poetry and Western Life. Aug. 2015.

--- "Session Host." *28th Arizona Cowboy Poets Gathering*. Prescott, Arizona. 6-8 Aug., 2015.

--- "Substitute Moderator Oral and Traditional Arts Session." *Rocky Mountain Modern Language Association*

69th Annual Conference. Santa Fe, New Mexico. 8-10 Oct. 2015.

Jennah Perry

College: Aviation

Department: Applied Aviation Sciences

Research Areas: : Flight Simulation Training, Education/Pedagogical studies, and Human Factors.



2015 Scholarly Activity:

Perry, Jennah; Erica Diels, Melanie Wetzel, Mark R. Sinclair, Curtis N. James. "Application of Meteorological Observations from Technologically Advanced Aircraft (TAA) to Support Flight Training Operations and Regional Forecasting." *Proceedings of the Aviation/Aeronautics/ Aerospace International Research Conference (A³iR Con)*. Phoenix, AZ. 15-18 Jan. 2015.



John E. Post

College: Engineering

Department: Computer, Electrical, & Software Engineering

Research Areas: Design and optimization of planar microwave circuits and devices;
Engineering education.

2015 Scholarly Activity:

Post, John E. "Optimizing Magnetically Coupled Loop Antennas." *QEX: A Forum for Communications Experimenters*. Jan. / Feb. 2015. Pages 17-30.

Brian Roggow

College: Aviation

Department: Aeronautical Science, Flight

Research Areas: Aviation safety - primarily; Flight data analysis, safety reporting, and human factors investigation.



2015 Scholarly Activity:

Roggow, Brian. (Chair). "AOPA Post-Crash Survivability." *Aviation/ Aeronautics/ Aerospace International Research Conference (A³iR Con)*. Phoenix, AZ. 17 Jan. 2015.



Timothy A. Sestak

College: Aviation

Department: Aeronautical Science

Research Areas: Wingsuits.

2015 Scholarly Activity:

Sestak, Timothy A. "Development of a Robust Two-component Balance for Wind Tunnel Investigation of Wingsuit Aerodynamics." *Proceedings of the Aviation/Aeronautics/ Aerospace International Research Conference (A³iR Con)*. Phoenix, AZ. 16 Jan. 2015.

Sestak, Timothy A. "Robust balance for wingsuit aerodynamic research." *Proceedings of the Aviation/Aeronautics/ Aerospace International Research Conference (A³iR Con)*. Phoenix, AZ. 15-18 Jan. 2015. Conference Presentation and associated Scholarly Commons paper.

Sesak, Timothy A.; Mary Fink, Brent Bowen, Juan Merkt, et al. "Conference Communiqué and Results of the Aviation/Aeronautics/Aerospace International Research Conference (A³iR Con)." Phoenix, AZ. 18 Jan. 2015.

Sam Siewart

College: Engineering

Department: Computer, Electrical, & Software Engineering

Research Areas: Software-defined computational photometry.



2015 Scholarly Activity:

Siewart, Sam; John Pratt. *Real-Time Embedded Components and Systems using Linux and RTOS, 2nd Ed.* Dulles, VA: Mercury Learning and Information, 2015.



Mark R. Sinclair

College: Aviation

Department: Applied Aviation Sciences

Research Areas: Synoptic and dynamic meteorology.

2015 Scholarly Activity:

Sinclair, Mark R. "The Climatology of Jet Streak Acceleration Events." *Proceedings of the 17th Cyclone Workshop*. Pacific Grove, CA. 25-30 Oct. 2015.

Sinclair, Mark R. "Use of a Simple Graphics Viewer for Gridded Data to Improve Data Literacy." *Proceedings of the American Meteorological Society Annual Conference*. Phoenix, AZ. Jan. 2015.

Sinclair, Mark R.; Erica A. Diels, and Melanie A. Wetzel. "Turbulence Estimation from Aircraft and Sounding Data." *Proceedings of the Aviation/Aeronautics/ Aerospace International Research Conference (A³iR Con)*. Phoenix, AZ. 15-18 Jan. 2015.

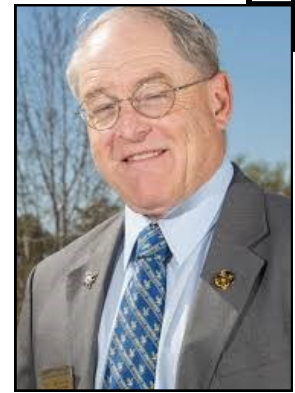
Sinclair, Mark R.; Erica Diels, Melanie Wetzel, Curtis N. James, and Jennah Perry. "Application of Meteorological Observations from Technologically Advanced Aircraft (TAA) to Support Flight Training Operations and Regional Forecasting." *Proceedings of the Aviation/Aeronautics/ Aerospace International Research Conference (A³iR Con)*. Phoenix, AZ. 15-18 Jan. 2015.

Bill Waldock

College: Arts & Sciences

Department: Behavioral and Safety Science

Research Areas: Aircraft Accident Investigation; Crashworthiness; Survivability Investigation.



2015 Scholarly Activity:

Waldock, William; Erin Bowen, and W. Alsumiri. "Human factors issues in UAV accidents: Considerations in UAS development." *18th International Symposium on Aviation Psychology*. Dayton, OH. 4-7 May 2015.



Patricia Watkins

Department: Hazy Library & Learning Center

Research Areas: Competitive intelligence; International and industrial research; Library information resources.

2015 Scholarly Activity:

Watkins, Patricia. "The Case of the Missing Voting Box: or How I Learned to Love Engineers Week by Creating an Activity Students Truly Love: LEGOS." American Society of Engineering Educators / Engineering Librarian Division. Seattle, WA. 15-17 June 2015.

Melanie Wetzel

College: Aviation

Department: Applied Aviation Sciences

Research Areas: Atmospheric instrumentation; Cloud physics; Remote sensing.



2015 Scholarly Activity:

Wetzel, Melanie. "Aviation Security Impacts of Meteorological and Climatic Disruptions." *Proceedings of Aviation/Aeronautics/ Aerospace International Research Conference (A³iR Con)*. Phoenix, AZ. 15-18 Jan. 2015.

Wetzel, Melanie; Erica Diels, Mark R. Sinclair, Curtis N. James, and Jennah Perry. "Application of Meteorological Observations from Technologically Advanced Aircraft (TAA) to Support Flight Training Operations and Regional Forecasting." *Proceedings of the Aviation/Aeronautics/ Aerospace International Research Conference (A³iR Con)*. Phoenix, AZ. 15-18 Jan. 2015.

Wetzel, Melanie; Dorothea Ivanova, J. R. French, L. D. Oolman, and T. D. Drew. "Deployment of a Research Aircraft for Interdisciplinary Education." *24th Symposium on Education. American Meteorological Society, Annual Meeting*. Phoenix, AZ. 3-8 Jan. 2015.

Wetzel, Melanie; Mark R. Sinclair, and Erica A. Diels. "Turbulence Estimation from Aircraft and Sounding Data." *Proceedings of the Aviation/Aeronautics/ Aerospace International Research Conference (A³iR Con)*. Phoenix, AZ. 15-18 Jan. 2015.

Wetzel, Melanie; Travis Swaggerty, and Dorothea Ivanova. "Prediction and Analysis of a Convective Frontal Passage in the Southwest." *NASA Space Grant Symposium*. Phoenix, AZ. 17-18 Apr. 2015.



Hong Zhan

College: Arts & Sciences

Department: Humanities & Communications

Research Areas: Integrating technology in language; Language teaching and Learning in virtual environments.

2015 Scholarly Activity:

Zhan, Hong. "Opening remarks in online teaching Chinese as a foreign language." *3rd International School Chinese Pedagogy Workshop*. Hong Kong University, Hong Kong. 3-5 Dec. 2015.

Zhan, Hong. "The study of CSL Pre-service Teachers' Competencies of Integrating Multimedia into Online Speaking Lessons." *2015 International Conference on Chinese Language Education and Heritage Language Education*. Chung Yuan Christian University, Taiwan. 8 May 2015. Invited Presentation.

Zhan, Hong; Hsiu-Jen Cheng. "The study of CSL Pre-service Teachers' Competencies of Integrating Multimedia into Online Speaking Lessons." *Chung Yuan Journal of Teaching Chinese as a Second Language*. Volume 16. 2015.

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