

## **Shawn A. Pruchnicki, PhD, FRAeS, RPh, CSPI**

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**IMDb:** [http://www.imdb.com/name/nm6225291/?ref=fn\\_al\\_nm\\_1](http://www.imdb.com/name/nm6225291/?ref=fn_al_nm_1)

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### **Statement of Research Focus and Expertise:**

My research interest lies in the area of resilience engineering and how it can be operationalized in safety sensitive domains when confronted with an accident investigation. That is, how resilience engineering could be utilized to help understand causation and develop a more proactive approach to preventing accidents. In an effort to understand why it happen and who was involved and how were they involved?

This type of research and its application through my investigations across many types of industries has shown significant success in understand accident causation. This enables other investigators to make meaningful recommendations for change. My additional expertise is that of Safety and Just Culture. As such, for over 20 years I have helped airline, pharmaceutical manufacturing, electrical powerplants and fire departments to name a few evaluate and improve their Safety and Just Culture environments all over the world. Additionally, it is important to understand to apply the perspective of complexity theory when combined with resilience engineering methods so that we may gain a better understanding of failure in complex socio-technical systems. Thereby being able to untangle these events and better understand causation.

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### **Professional Education:**

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| October 2018 | PhD program. Integrated Systems Engineering. Cognitive Engineering - Human Factors. Academic Advisor Dr. David Woods. The Ohio State University. Columbus, Ohio. Dissertation – <i>“Improving facilitated debriefings – How are barriers to learning recognized by instructors and mitigated during post-simulator debriefings?”</i> |
| May 2006     | Masters of Aeronautical Science Program; Human Factors. Embry-Riddle Aeronautical University. Daytona Beach, Florida.  |
| June 1990    | Paramedic Training. Nationally Registered. Grant Medical Center Life Flight Paramedic Program. Columbus, Ohio.   |
| January 1990 | Professional Firefighting Training. Ohio Fire Academy. Reynoldsburg, Ohio.   |
| July 1989    | Bachelor of Science in Pharmacy, Ohio State University. Columbus, Ohio.  |

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## Current Positions and Responsibilities

- Jan. 2020-Present     Assistant Professor. The Ohio State University, Columbus Ohio. Center for Aviation Studies (CAS) and Integrated Systems Engineering (ISE). These are dual appointments within the College of Engineering.
- August 2013-Present     Academic Research Coordinator & Chief Flight Test Pilot: The Ohio State University, Columbus, Ohio. Center for Aviation Studies. Responsible for participating in and monitoring various research programs. Including flight test work as required.
- January 2018-Present     Site Director of FAA Center of Excellence (PEGASAS) at Ohio State University. Ohio State is a core school in this research Consortium. Washington, DC.
- October 2021-Present     Site Director of FAA Center of Excellence (TTHP) at Ohio State University. Ohio State is a core school in this research Consortium. Washington, DC.
- April 2021-Present     Advisor/Consultant on ERC. The Ohio State University Aviation Safety Action Program (ASAP). Ohio State Airport, Columbus, Ohio.
- Jun 2009-Present     Owner and Chief Researcher; Human Factors Investigation & Education. [www.HFIE.org](http://www.HFIE.org) Columbus, Ohio
- Human Factors expertise specializing in human behavior in accident causation, accident investigations and safety/just cultures. We have also worked with the following as a sample:
    - Numerous airlines both foreign & domestic
    - Health care
    - Power plant operations
    - Pharmaceutical manufacturing
    - Emergency Medical Services (EMS) & Fire ground operations (Fire Departments)
    - Aerospace (i.e., NASA, Civil Aerospace Medical Institute, FAA, NTSB, etc.)
    - Extensive experience (Eight cases) with legal work in numerous fields such as medical, aviation and two very high-profile police officer criminal cases later listed.
- March 2022-Present     Aerospace consultant for MITRE in McLean, Virginia.
- Sept. 2018-Present     Adjunct Professor: Durban University of Technology, Durban South Africa. Center for Space Science Centre (SSC).
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## Professional Experience:

- July '20-March '22 *Ask the Captain* - monthly radio show. First Monday of the month at 10:00AM Eastern. WWPR 1490AM. Tampa Bay, Florida
- Aug. 2016-Oct. 2018 Aerospace consultant for MITRE in McLean, Virginia.
- Aug 2013-Jan 2018 Associate Site Director of FAA Center of Excellence (PEGASAS) at Ohio State University. Ohio State is a core school in this research Consortium. Washington, DC.
- July 2012-Dec. 2019 Faculty (Full-time Lecturer): The Ohio State University, Columbus Ohio. Center for Aviation Studies and Integrated Systems Engineering (ISE).  
Integrated Systems Engineering  
Introduction to Cognitive Engineering 3700  
Automation and Control 5740  
Center for Aviation Studies  
Aviation safety/human factors 3300  
Advanced aircraft systems, multiengine & turbine 4300  
Aviation weather & aircraft performance 2300  
Accident investigation 3194  
Independent Study (18 student/semesters) – Topics include: ATC, accident investigation, advanced accident causation, CRM, Angle-of-attack equipment in GA A/C, safety culture.
- Dec 2009- May 2015 Senior Research Engineer - Fulltime employee (6/10 to 6/12) & Independent contractor. San Jose State University in collaboration with the National Aeronautics and Space Administration (NASA) AMES Research Center Moffett Field, CA.
- Current research into the human factors issues regarding NextGen development. Including the following.
    - Aircraft alerting in non-normal events on the flight deck across numerous commercial aircraft
    - Single pilot workload study
    - Navigational Reference System (NRS) waypoint analysis
  - FAA research contract numbers:
    - 09-AJP61FGI-0101 & 09-AJP61FGI-0102
- Jan 2009-June 2012 Adjunct Faculty: The Ohio State University, Columbus Ohio
- College of Engineering, Department of Aviation. Courses taught in undergraduate program – over 600 hours of undergraduate instruction given:  
Aviation Safety (560)  
Human Factors (540)

Accident Investigation (493)  
Aviation History (322)  
Advanced Human Factors & Accident Causation (493)

- College of Pharmacy.  
Courses created and taught in Doctor of Pharmacy  
Program: Group Studies-Clinical Toxicology (694)

Mar 1999-Apr 2009 Pilot, Captain CL-65. Comair. d.b.a. Delta Connection. Erlanger, KY

- Scheduled Part 121 airline
- Cat II Qualified.
- Line Check-Airmen invitation
- Operations throughout United States, Mexico, Bahamas and Canada.

Aug 1989-Aug 2021 Poison Information Specialist. Pharmacist. The Central Ohio  
Poison Center. Columbus, Ohio.

- Responsible for telephone consultation for general public and health care professionals.
- Clinical instructor for Doctor of Pharmacy students, Emergency Medicine physicians and Paramedics.
- Over 75,000 calls managed.

Jun 1988-Sept 1997 Firefighter/Paramedic. Jackson Township Fire Department. Grove  
City, Ohio.

- Large three station suburban fire department.
- Functioned on medic unit, engine company, ladder company and heavy rescue vehicles as assigned.
- Functioned as medic in charge of EMS runs as assigned.

### **Additional Teaching Positions:**

Aug 2014-Dec. 2014 Graduate Teaching Assistant. Bachelor Program in Industrial  
Systems Engineering. ISE 5740 Automation and Human Design.  
The Ohio State University, Columbus, Ohio.

- Supervisor Dr. David Woods.
- Responsible for coordination with other GRAs on course material, grading and student evaluation.
- Covering classes when Dr. Woods was unavailable.

Sept 2009-Mar 2012 Graduate Teaching Assistant. Master of Science Program in Human  
Factors and System Safety. The Leonardo da Vinci Laboratory for  
Complexity and Systems thinking. Lund University, Lund Sweden.

- Supervisor Dr. Sidney Dekker.
- Academic supervisor for all year one tutors.
- Responsible for assisting Dr. Dekker with all Masters Students (including reviewing and grading assignments, thesis review).

- May 2004-Oct 2008 Instructor: ALPA accident investigation course.
- Course is required for all new ALPA accident investigators.
  - Modules taught were human factors and survival factors.
- Nov 1997-Feb 1999 Instructor: Hazardous Materials. First Responder Awareness & Operations level. HAZ/MAT DQE. Carmel, Indiana.
- Provided hazardous material victim training and management to emergency room staff throughout United States
- Nov 1997-Feb 1999 Instructor: Weapons of mass destruction. Disaster Planning International (DPI). TriMed Inc. Washington D.C.
- Provided weapons of mass destruction training for EMS personnel throughout United States.
  - My primary teaching focus and assignments were related to management of chemical weapons of mass destruction.
  - This was a military trained program as part of a Congressional Act to prepare the first responders for managing a large-scale weapons of mass destruction event.
- Oct 1996-Feb 1999 Flight Instructor, Airnet Systems. KCMH Columbus, Ohio.
- FAR Part 141 Multi-engine Commercial program.
  - Conducted both flight and ground instruction.
  - Primary aircraft was BE-58. Known icing, Argus 5000 moving map, weather radar.
  - FAA Gold Seal Instructor.
- Oct 1996- Feb 1999 Flight Instructor, Academy for instrument ratings. KCMH Columbus Ohio
- FAR Part 91 Single-engine training.
  - Conducted both flight and ground instruction.
  - Aircraft utilized were C-152, PA-28-181, PA-28R-180.
  - FAA Gold Seal Instructor.
- Apr1990-Apr 1996 Clinical Instructor. Grant Medical Center LifeFlight Paramedic Program. Columbus, Ohio.
- Taught all course work in the fields of pharmacology and toxicology to new paramedic students.
- Jun 1992-Nov 1995 Instructor: American Red Cross. Columbus, Ohio.
- Taught CPR and first aid to general public.
- Jun 1992-Feb 1999 Course Creator Coordinator/Instructor: Toxitricks Program. Children's Hospital. Columbus, Ohio.
- Toxitricks is a practical “hands-on” program designed to assist pre-hospital and hospital personnel with common pediatric toxicological emergencies.

- Mar1991-Nov 1995 Instructor: Pediatrics Program, Children's Hospital. Columbus, Ohio.
- Pediatrics is a practical “hands-on” program designed to assist pre- hospital and hospital personnel with common pediatric medical emergencies.
  - Specialization cardiac emergencies

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**Certificate and Training Programs:**

- May 2012 FEMA Hospital Incident Command Training Course. Course 100, 200 and 700.
- Sept 2007 Learning Laboratory for Human Factors Investigators. Dr. Sidney Dekker. Lund University. Lund, Sweden.
- Mar 2006 Human Factors in Aviation Safety Course. University of Southern California (USC). Viterbi School of Engineering. Los Angeles, California.
- Apr 2005-Dec 2007 National Transportation Safety Board Academy, Ashburn, VA
- Courses taken:
    - Advanced Cognitive Interviewing for Accident Investigators
    - Survival Factors in Aviation Accidents
    - Biomechanics of High-Impact Injuries
    - Cognitive Interviewing for Accident Investigators
    - Investigating Human Fatigue Factors
- Aug 1989-Mar 2000 Provider American Heart Association
- Trained in Advanced Cardiac Life Support (ACLS).
  - Trained in Pediatric Advanced Life Support (PALS).
- Oct 2001-Feb 2005 Air Line Pilots Association (ALPA). Herndon, VA
- Courses taken
    - Basic Safety Course
    - Bloodborne Pathogen Training
    - Safety-Two School
    - Basic Accident Investigation
    - Advanced Accident Investigation
    - Aircraft Survival Factors Training

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**Licensure:**

- Jul1991-Present Certified Specialist in Poison Information. American Association of Poison Control Centers.
- Jul 1990-Jul 2000 Emergency Medical Technician – Paramedic. The Ohio Department of Public Safety. Division of EMS. Columbus, Ohio.



June 2017 Federal Aviation Administration, Washington D.C.

**Oct 2001-Oct 2008 Air Line Pilots Association (ALPA) Activities & responsibilities.**

Air Transport Association's Data Communications Task Force Human Factors Sub-group. Washington D.C.

Member: May 2008 to October 2008

FAA's Performance Based Aviation Rulemaking Committee (PARC) Subcommittee Pilot Controller Procedures and Systems Integration Working Group, Washington D.C.

Co-Chairman: September 2006 to August 2008

Member: May 2005 – September 2006

National Human Factors Working Group

Director May 2005 – October 2008

Member February 2004 – May 2005

Master Executive Council-Central Air Safety Comm. Council 37

Chief Accident Investigator October 2007 – October 2008

November 2004 – December 2005

Vice-Chairman June 2007 – October 2008

Assistant Chief Accident Investigator June 2003 – October 2004

Member October 2001 – June 2003

Master Executive Council - Aviation Safety Action Program(ASAP)

ASAP Coordinator/ERC January 2008 – August 2008

ASAP ERC Member August 2006 – January 2008

**Other Major activities and responsibilities.**

**Faculty Service:**

October 2021 – Present Human Factors Ergonomics Society (HFES) OSU student chapter faculty advisor

Aug. 2018 – Present University Undergraduate Honors Committee

**Student Supervision:**

**University of North Dakota, United States:**

PhD committee member-at-large for entire process;

James Norman - Aerospace Sciences.

**Ohio State University, Columbus Ohio:**

Supervision for graduate students on various FAA awarded PEGASAS projects;

Eun Sun Ryu – College of Civil Engineering

Una Blanus – College of Civil Engineering

Josh Schimmel – College of Engineering

Yanami Gowda - College of Civil Engineering.

Marshall Pomeroy - College of Civil Engineering.



Natchi Despande - College of Engineering.

Supervision for undergraduate graduate students on various FAA awarded PEGASAS projects;

Hannah Gleckler - College of Engineering

Justin Abrams - College of Engineering, Honor Student

Kierra Mercure - College of Engineering

Phillip Wilson - College of Engineering

Wilson Flores - College of Engineering

Brandon Lundeer - College of Engineering

Aubrey O'Connell - College of Engineering

**Lund University, Lund Sweden:**

Supervision for graduate students on their thesis activities and course work;

Patrik Nyström. College of Engineering.

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**Participation in Aviation Accident Investigations:**

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| August 2007   | Pinnacle Airlines (d.b.a. Northwest Airlink) Flight 4712 non-fatal accident, CRJ-200. April 15, 2007. Human Factors analysis for the ALPA investigation team in conjunction with the National Transportation Safety Board's investigation (NTSB) DCA07FA037.  |
| August 2006   | Comair Airlines (d.b.a. Delta Connection) Flight 5191 fatal accident (49), CRJ-100. August 27, 2006. Member of the Operations/Human Factors working group. Also one of three persons that provided management of the total investigative effort. Investigator in support of the National Transportation Safety Board's investigation (NTSB) DCA06MA064. |
| December 2004 | Pinnacle Airlines (d.b.a. Northwest Airlink) Flight 3701 fatal accident (2), CRJ-100. October 14, 2004. Human Factors support for the ALPA investigation team in conjunction with the National Transportation Safety Board's investigation (NTSB) DCA05MA003.   |
| July 2004     | Comair Airlines (d.b.a. Delta Connection) Flight 5445 non-fatal accident, CRJ-100. Severely injured flight attendant during a TCAS maneuver near Snow Hill, Virginia on July 21, 2004. Accident investigator for ALPA working in conjunction with the National Transportation Safety Board's investigation (NTSB) NYC04LA174.                           |
| May 2004      | Air Transat Flight 236 non-fatal accident, Airbus A330-243 All Engine-Out Landing Occurrence at Lajes, Azores 24, August 2001. Member of the committee that prepared the "Human Factors Assessment of Flight Crew Performance" for ALPA at Air Transat.   |

## Participation in Lawsuits as Expert Witness:

- July 2022 United States of America vs. Alexander Kueng. United States District Court District of Minnesota. Civil case in the death of George Floyd. Charge of second-degree manslaughter. Expert witness with a background in human factors, safety and crew resource management. Defense counsel Thomas Plunkett.
- April 2022 United States of America vs. Thomas Kiernan Lane. United States District Court District of Minnesota. Civil case in the death of George Floyd. Charge of second-degree manslaughter. Expert witness with a background in human factors, safety and crew resource management. Defense counsel Earl Grey.
- July 2021 State of Indiana Circuit Court in the matter of *Patrick Kelly and Kesha Kelly vs Glendale Airport, Glendale LLC, Flight Training Centers LLC, Dale Etherington, Steve Stants and Duke Energy Indiana LLC*. Wrongful Death. Aviation consultant for plaintiffs. Jared Harts lead counsel.
- October 2020 State of North Carolina Superior Court Division, County of Mecklenburg, in the matter of *Hudson and Vernon vs. The City of Charlotte and American Airlines*. Wrongful Death. Will testify for the plaintiffs on the safety culture of these organizations and the role that this played in this untimely death of their employee. Joel Rhine lead counsel.
- May 2019 State of Illinois Circuit Court of the 17<sup>th</sup> Judicial Circuit, Winnebago County in the matter of *Brown vs. Rockford Health Systems/ Dr. Joe Manaligod MD*. Wrongful injury suit. Will testify for the defense on outcome and hindsight bias and how these affect investigator reliability in determining causation. Settled out of court. David Faulkner lead counsel.
- March 2019 The United States District Court for the Middle District of Pennsylvania in the matter of *Apfelbaum vs United States of America*. Will testify for the plaintiff as to the effects of spatial disorientation in an aircraft accident. Lane Jubb lead counsel.
- August 2018 State of Illinois Circuit Court of the 17<sup>th</sup> Judicial Circuit, Winnebago County in the matter of *Mendez vs. Rockford Health Systems/ Dr. Jose Luis Gonzalez MD*. Wrongful death suit. Will testify for the defense on outcome and hindsight bias and how these affect investigator reliability in determining causation. Defense. David Faulkner lead counsel.

January 2016

State of Illinois Circuit Court of the 17<sup>th</sup> Judicial Circuit, Winnebago County in the matter of *Slaven vs. Swedish American Hospital/ Dr. Eric John Hess MD*. Wrongful death suit. Will testify for the defense on outcome and hindsight bias and how these affect investigator reliability in determining causation. Settled out of court. David Faulkner lead counsel.

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**Publications (Peer-reviewed):**

**Manuscripts**

Valasek, J., Harris, J., **Pruchnicki, S.**, McCrink, M., Gregory, J. & Sizoo, D. (2020). Derived Angle-of-Attack and Sideslip Angle Characterization for General Aviation. *Journal of Guidance, Control, and Dynamics*, 43(6), 1039-1055.

McCall, J. & **Pruchnicki, S.** (2017). Just Culture: A Case Study of Accountability Relationship Boundaries Influence on Safety in High-Consequence Industries. *Safety Science*. 94 (2). 143-151.

Smith, P., Johnson, D., **Pruchnicki, S.**, Schimmel, J., & Spencer, A. (2017). Cognitive Engineering Considerations in the Development of an Information Retrieval System: Avoiding Fixation on Technological Substitutes. *The Journal of Cognitive Engineering and Decision Making*. (10) 2, 126-130.

Burns, G., Spiller, H., **Pruchnicki, S.**, Siegel, E. & Casavant, MJ. (2016) Acute Renal Failure and Death after Misuse of Concentrated Anhydrous Caffeine as a Pre-Work Out Supplement By Athletes. *J Clinical Case Stu* 1(3): doi <http://dx.doi.org/10.16966/2471-4925.114>

Christopher, B., **Pruchnicki, S.**, Burian, B., Cotton, S. Enhancing NextGen RNAV Capabilities: Human performance Evaluation of NRS Waypoint Nomenclatures. *The International Journal of Aviation Psychology*. 24 (3), 155-17. 2014.

Dekker, S., **Pruchnicki, S.** “Drifting into failure: Theorizing the dynamics of disaster incubation”. *Theoretical Issues in Ergonomic Science*. Nov. 2013. DOI: 10.1080/1463922X.2013.856495

**Pruchnicki, S.**, Wu, L, Belenky, G. An Exploration of the Utility of Mathematical Modeling Predicting Fatigue from Sleep/Wake History and Circadian Phase Applied in Accident Analysis and Prevention: The Crash of Comair Flight 5191. *Accident Analysis and Prevention* 43: 1056-1061. 2011.

**Pruchnicki, S.** The Serpent and the Responder; Treating Snakebites. *Journal of Emergency Medical Services* 18: (4) 43-42, 1993.

**Pruchnicki, S.** Just Say Know; Recognizing the Dangers of Commonplace drugs. *Journal of Emergency Medical Services* 16: (2) 26–38, 1991.

## Conference Proceedings

Gruber, M. E., Cruit, J., Kochan, J. A., Arias, H., Diaz, Y., **Pruchnicki, S.**, & Hancock, P. A. (2021, October). Identifying and Categorizing Positive Behaviors in Unexpected, Good Outcome Events in Aviation. *Human Factors and Ergonomics Society 65<sup>th</sup> International Annual Meeting*, October, 2021. Baltimore, MD, United States.

**Pruchnicki, S.** & Woods, D. “Inadequate Post Simulation Debriefings in Air Traffic Control and Pilot Training” *Proceedings from the 8<sup>th</sup> International Conference in Air Transportation*. June, 2018. Barcelona, Spain.

Valasek, J., Harris, J., **Pruchnicki, S.**, & McCrink, M, Gregory, J. & Sizoo, D. “Characterization of Derived Angle-of-Attack and Side Slip Angle Algorithms Using Monte Carlo and Pilot Simulation”. *Proceedings from The American Institute of Aeronautics and Astronautics*. June 2017. Denver, Colorado.

Dillman, B., Wilt, D., **Pruchnicki, S.**, & Hall, T. “Effect of Angle of Attack Displays on Approach Stability”. *Proceedings from The American Institute of Aeronautics and Astronautics*. June 2017. Denver, Colorado.

McCrink, M., Gregory, J., & **Pruchnicki, S.**, “Derived Angle of Attack Algorithm Characterization through Flight Test of UASs”. *Proceedings from The American Institute of Aeronautics and Astronautics*. June 2017. Denver, Colorado.

Rao, A., **Pruchnicki, S.**, & Young, S. “A Survey to Understand the Use of In-flight Weather Information Products and Services”. *Proceedings from The American Institute of Aeronautics and Astronautics*. June 2017. Denver, Colorado.

**Pruchnicki, S.** “The Perfect Storm” Lexington, KY & Comair Flight 5191.” *Proceedings from the International Symposium on Aviation Psychology*. May 2017. Dayton, Ohio.

**Pruchnicki, S.** “Exploring Facilitation Debriefing Techniques Using a Diary Study.” *Proceedings from the International Symposium on Aviation Psychology*. May 2017. Dayton, Ohio.

Schimmel, J., **Pruchnicki, S.**, Smith, P. & Young, S. “SAGA – Safety Analysis in General Aviation – Leveraging Digital Flight Data Towards the Development of a Flight Performance Database Tool to Improve General Aviation Safety” *Proceedings from the 7<sup>th</sup> International Conference in Air Transportation*. June, 2016. Philadelphia, PA.

Lundeen, B., **Pruchnicki, S.**, & Young, S. “Weather Technology in the Cockpit: Analysis of Pilot Decision Making” *Proceedings from the 7<sup>th</sup> International Conference in Air Transportation*. June, 2016. Philadelphia, PA.

Blanusa, U., Young, S., **Pruchnicki, S.**, & Strzempkowski, B. “An Evaluation of Linear Length LED Centerline Taxiway Exit Light Systems” *Proceedings from the 7<sup>th</sup> International Conference in Air Transportation*. June, 2016. Philadelphia, PA.

Dillman, B., Wilt, D., **Pruchnicki, S.**, Rudari, L., Ball, M., & Pomeroy, M. “Flight Operational Quality Assurance (FOQA) – Do Exceedances Tell the Story?” *Proceedings from the 18<sup>th</sup> International Symposium on Aviation Psychology*. May, 2015. Dayton, Ohio.

**Pruchnicki, S.**, Woods, D. “Surprise on the Flight Deck – A Full Motion Simulator Study” *Proceedings from the 67<sup>th</sup> International Safety Summit (IASS) Flight Safety Foundation*. 2014. Abu Dhabi, United Arab Emirates.

**Pruchnicki S.** and Woods, D. D. (2013). Cognitive Demands of Staying in Control on Highly Automated Aircraft When Faced with Surprise. In *Proceedings Fifth Symposium on Resilience Engineering: Managing trade-offs*, 24-27, June 2013, Soesterberg, Netherlands. Download from Knowledge Bank at OSU <http://hdl.handle.net/1811/60454> or search at <http://kb.osu.edu>

Burian, B., **Pruchnicki, S.**, Christopher, B., Silverman, E., Hackworth, C., Rogers, J., Williams, K., Drechsler, G., Runnels, B., Mead, A. Single Pilot Workload Management During Cruise in Entry Level Jets. *Proceedings from the 17<sup>th</sup> International Symposium on Aviation Psychology*. May, 2013. Dayton, Ohio.

**Pruchnicki, S.**, Burian, B., Christopher, B. Designing Realistic Full-Mission Human-in-the-loop Aviation Simulation Studies: Lessons Learned. *Proceedings from the 55<sup>th</sup> Annual Human Factors and Ergonomics Society (HFES)*. September, 2011. Las Vegas, Nevada.

**Pruchnicki, S.**, Christopher, B., Burian, B. Human Factors Issues of Navigation Reference System (NRS) Waypoints. *Proceedings from the 16<sup>th</sup> International Symposium on Aviation Psychology*. May, 2011. Dayton, Ohio.

Fennell, K., **Pruchnicki, S.**, McKenney, D., Reidemar, H., Comstock, K. Aviation Automation Design and Implementation –The Need for Human Factors Considerations. *Proceedings from the 15<sup>th</sup> International Symposium on Aviation Psychology*. April, 2009. Dayton, Ohio.

Hollnagel, E., **Pruchnicki, S.**, Woltjer, R., Etcher, S. A Functional Resonance Accident Analysis of Comair 5191. *Proceedings from the 8th International Symposium of the Australian Aviation Psychology Association*. April, 2008. Sydney, Australia.

### **Abstracts/Posters**

Diaz, Y., Cruit, J., Kaplan, A., Kochan, J., Gruber, M., **Pruchnicki, S.**, and Hancock, P. A. (2021). *Training Resilience in Aviation Systems: A Literature Review*. [Conference presentation]. 2021 International Symposium on Aviation Psychology, Virtual.

Bloomster, B., **Pruchnicki, S.**, Varga, B., Mulchaey, M., Young, S., Morrison, S., and Strzempkowski, B. Facing Takeoff: A First Step Approach to Overcoming Flight Anxiety. Community Engagement Conference. Columbus, Ohio. January, 2018

**Pruchnicki, S.** & Rao, A. Resilience in the Face of Unexpected Flight Deck Events. The 7<sup>th</sup> REA Symposium. Poised to adapt: Enacting Resilience Potential Through Design, Governance and Organizations. Liege, Belgium. June, 2017

Rao, A. & **Pruchnicki, S.** Resilience in the Face of Unexpected Flight Deck Events. The International Symposium on Aviation Psychology. Dayton, Ohio. May, 2017.

**Pruchnicki, S.** Complexity Science and the Investigation Community. Chartered Institute of Ergonomics & Human Factors. Human Factors in Aviation Safety. East Midlands, England. November, 2015.

Abrams, J., **Pruchnicki, S.**, Pomeroy, M., Young, S. Angle of Attack Equipment in General Aviation Aircraft. Presented at the 1<sup>st</sup> AIR Embry-Riddle Conference. Phoenix, Arizona, January 2014.

Rogers, J., Williams, K., Hackworth, C., Burian, B., **Pruchnicki, S.**, Christopher, B., Drechsler, G., Silverman, E., Runnels, B., Mead, A. Single-Pilot Workload Management. Presentation at the 84<sup>th</sup> Aerospace Medical Association Annual Meeting. Chicago, Illinois, May 2013.

**Pruchnicki, S.**, Does Postmortem Toxicological Analyses of Tetrahydrocannabinol (THC) in Aviation Accidents Accurately Identify Its Physiological Impairment at the Time of Accident. *Journal of Toxicology; Clinical Toxicology* 2009 47: (7) 738. Poster presentation at the North American Congress of Clinical Toxicology Annual Meeting. San Antonio, Texas, September 2009.

**Pruchnicki, S.**, Baker, S.D. The Use of Modern Photographic Technology for Animal Identification. *Journal of Toxicology; Clinical Toxicology* 2009 47: (7) 709. Poster presentation at the North American Congress of Clinical Toxicology Annual Meeting. San Antonio, Texas, September 2009.

**Pruchnicki, S.**, Good TF, Walson PD. Severe Hydroxychloroquine Poisoning Reversed With Diazepam. *Journal of Toxicology; Clinical Toxicology* 1996 34: (5) 582. Poster presentation: North American Congress of Clinical Toxicology Annual Meeting, Portland, Oregon, September 1996.

Haley, K., Greene, S., **Pruchnicki, S.**, Poison Center Training of Emergency Medical Services Personnel. *Proceedings of the AAPCC/AACT/ABMT annual meeting. October 1990, Tucson, Arizona.* Poster presentation. North American Congress of Clinical Toxicology Annual Meeting. Tucson, Arizona. Oct 1990.

## NASA & FAA Technical Memorandums/Reports

Hancock, P., Cruitt, J., Kochan, J., **Pruchnicki, S.** Air Carrier Training Recommendations to Address Limitations of Pilot Procedures During Unexpected Events in NextGen Operations. Federal Aviation Administration (FAA) NextGen Human Factors Division ANG-C1. February 2021. May 2021.

Hancock, P., Cruitt, J., Kaplan, Y., Diaz, Y., Kochan, J., **Pruchnicki S.** Relevant Research Assessment Concerning Pilot Response to Unexpected Events. Federal Aviation Administration (FAA) NextGen Human Factors Division ANG-C1. February 2021.

**Pruchnicki, S.,** Key, K., Rao, A. Problem Solving/Decision Making and Procedures for Unexpected Events: A Literature Review. Office of Aerospace Medicine DOT/FAA/AM-20/01. Pp. 1-43. January 2019.

Berman, B.A., Kochan, J.A., Burian, B.B., **Pruchnicki,S.,** Christopher, B., Silverman, E. Alerts and Cues on the Flight Deck: Analysis and Applications. NASA Technical Memorandum TM-2017-219720. Pp. 1-57. September. 2017.

Herndon, A., Jarrott, W., Lyall-Wilson, E., McKnight, C., Miller, S., **Pruchnicki, S.,** Rao, A., Reed, C. Standard Operating Procedures: Flight Path Management (FPM) Air Carrier Operations. MITRE Technical Report 170412. Funded through FAA Project number 0216RF04-FP. Pp 1-32. December, 2017.

Valasek, J., Harris, J., Young, S., **Pruchnicki, S.,** McCrink, M., and Gregory, J. Characterization of Derived Angle-of-Attack and Flight Path Angle Algorithms. William J. Hughes Technical Center Research Division DOT/FAA/AR-XXX. Atlantic City, NJ. December 2016.

Fanyjoy, R., Dillman, B., Johnson, M., Podhipak, N., Winter, S., Rice, S., Rosser, T., Maharaj, I., **Pruchnicki, S.** Acquisition Distance of LED-based Runway Closure Lighting. The Federal Aviation Administration Aviation - William J. Hughes Technical Center Research Division DOT/FAA/AR-XXX (In press). Atlantic City, NJ. May 2016.

Dillman, B., **Pruchnicki, S.,** Wilt, D., Pomeroy, M., Johnson, M., Abrams, J., Fanjoy, R., Rudari, L., Ball, M., Young, S. Angle of attack equipment in general aviation operations. The Federal Aviation Administration Aviation - William J. Hughes Technical Center Research Division DOT/FAA/AR-XXX (In press). Atlantic City, NJ. December 2014.

Williams, K., Christopher, B., Drechsler, G., **Pruchnicki, S.,** Rogers, J., Silverman, E., Gildea, K., Burian, B. K., Cotton, S. Aviation human-in-the-loop simulation studies: Experimental Planning, Design and Data management. FAA Office of Aerospace Medicine DOT/FAA/AM-14/1. Washington DC, January 2014.

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### **Book Chapters**

**Pruchnicki, S.** & Dekker, S. (2017). *Resilience Engineering in EMS*. In “The Human Factors & Ergonomics of Prehospital Medicine”. CRC Press.

### **Technical Reports/Professional Papers**

McCrink, M., Gregory, J., **Pruchnicki, S.**, Strzempkowski, B. & Young, S. “Derived Angle of Attack (AoA) Flight Testing”. Unpublished white paper for FAA PEGASAS COE. Pp. 1-3. June, 2016.

Tekaucic, K. & **Pruchnicki, S.** “An Electronic Survey and Subsequent Analysis of a Pilot Population Concerning Class 1 EFB Deployment. Embry Riddle Aeronautical University Scholar Commons for AIR Con 2016, Phoenix, AZ. January 2016.

Wierzbanski, J., Slifer, D., Smith, R., **Pruchnicki, S.**, Meir, N., Young, S. “Unmanned Aircraft Systems in the National Airspace System Pathfinder Program Proposal”. Air Force Research Laboratory. Wright-Patterson Air Force Base, Dayton, Ohio. August, 2015.

Berman, B., Kochan, J., Burian, B., **Pruchnicki, S.**, Silverman, E., & Christopher, B. Alerts and Cues for Specific Conditions: Analysis and Application in Training FAA funded project through ANG-C1. Pp. 1-372. March, 2015.

**Pruchnicki, S.**, Young, S., Green, J., & Wagner, C. “A Call For Supporting a Next Generation Airspace System for the State of Ohio.” Distributed via numerous outlets and supplied to state legislators. The John Glenn School of Public Affairs. The Ohio State University, Columbus, Ohio. November 13, 2014.

Berman, B., Kochan, J., Burian, B., **Pruchnicki, S.**, Silverman, E., & Christopher, B. Flight deck alerting: Functions, Characteristics, and implications for NextGen. FAA funded project through ANG-C1. Pp. 1-120. November, 2014.

**Pruchnicki, S.**, Woods, D.D., Deshpande, N. Managing Surprise: Resilience and Control on the Flight Deck. A simulator observation study for NetJets final report. Internal paper only. Columbus, Ohio. March 1st, 2014.



**Pruchnicki, S.** Plane crash probes should cast a wider net. A special opinion article in relation to the release of Sole Survivor film on CNN.com. January 9, 2014.

<http://www.cnn.com/2014/01/09/opinion/sole-survivor-shawn-pruchnicki/index.html#cnn-discus-area>

**Pruchnicki, S.,** Williams, K., Christopher, B., Gildea, K., Rogers, J., Cotton, S., Drechsler, G., Mead, A., Runnels, B., Burian, B., Hackworth, C. Energy management, and stabilized approach and landing performance of single pilots flying entry level jets: Study design and method. NASA study 09-AJP61FGI-0048 and funded through FAA ANG-C1. Pp. 1-135. March, 2012.

Burian, B, Christopher, B., **Pruchnicki, S.,** Cotton, S., Human factors evaluation of the implementation of the navigation reference system (NRS) Phase 2 report. NASA study 09-AJP61FGI-0101 and funded through FAA AJP-61. Pp. 1-155. August, 2011.

Burian, B, **Pruchnicki, S.,** Christopher, B., Human factors evaluation of the implementation of the navigation reference system (NRS) Phase 1 report. NASA study 09-AJP61FGI-0101 and funded through FAA AJP-61. Pp. 1-57. March, 2010.

Fennel, K., **Pruchnicki, S.,** McKenney, D., Reidemar, H. Comstock, K. Human Factors in Aviation Automation. ALPA statement of position white paper. Unpublished. Pp. 1-21. October, 2008.

**Pruchnicki, S.** Master's Degree Program Graduate Research Project. Does postmortem toxicological drug analysis accurately identify a medication's pharmacological influence at the time of accident? Unpublished paper. Pp.1-98. April 2006. Embry-Riddle Aeronautical University. Daytona Beach, Florida.

**Pruchnicki, S.,** LaRoche G., Corrie, S. The use of color in aircraft flight deck displays: ALPA statement of position white paper. Unpublished. Pp. 1-31. December, 2005.

### Magazine

**Pruchnicki, S.** Understanding human error - How to develop a just culture at your fire department. *Fire Rescue Magazine* 2017. 140 (1) 26-36.

**Pruchnicki, S.** NRS Waypoint Structure. *Professional Pilot Magazine* 2010. 44 (7) 102-105.

**Pruchnicki, S.** Anatomy of a System Failure. *Flight Safety Foundation Aero Safety World*. April, 2010 26-29.

**Pruchnicki, S.** Remembering to Remember. *Professional Pilot Magazine* 2008. 42 (12) 120.

Dean, A., **Pruchnicki, S.** Deadly Omissions. Featured cover article. *Flight Safety Foundation Aero Safety World*. December, 2008. 10-16.

**Pruchnicki, S.** Raising Awareness for All. *Professional Pilot Magazine* 2008. 42 (4) 72-74

## **Presentations:**

### **International Forums**

- April 2022      Invited presentation: “Resilience and operations in complex environments”. Presentation for Energy Safety Canada Human and Organizational Performance Community of Practice. Calgary, AB.
- March 2022      Invited presentation: “Safety Differently, Pilot Error?” Webinar for the Helicopter Association International (HAI). Monthly safety webinar meeting. Attendees from 30 different countries.
- March 2019      Accepted presentation: “Training for Unexpected Events – A Model of Resilient Behaviors” Simulation and training for resilience and safety conference. London, England.
- June 2018      Accepted presentation: “Exploring Facilitated Debriefing Techniques Using a Diary Study” Proceedings from the 8<sup>th</sup> International Conference in Air Transportation. Barcelona, Spain.
- April 2016 - 19      Accepted presentation: “Understanding human error - How to develop a just culture at your fire department. An investigator’s perspective. FDIC International Conference. Indianapolis, Indiana.
- May 2017      Accepted presentation: “The Perfect Storm” Lexington, KY & Comair Flight 5191”. International Symposium on Aviation Psychology. Dayton, Ohio.
- May 2017      Accepted presentation: “Exploring Facilitation Debriefing Techniques Using a Diary Study.” International Symposium on Aviation Psychology. Dayton, Ohio.
- Nov 2015      Accepted presentation: “Resilience Engineering as a Perspective in Understanding Accident Causation.” Chartered Institute of Ergonomics & Human Factors. Human Factors in Aviation Safety. East Midlands, England.
- May 2015      Accepted presentation: “Top Ten Ways to Destroy Your Safety Culture.” International Symposium on Aviation Psychology. Dayton, Ohio.
- May 2015      Accepted presentation: “Effects of Angle of Attack Displays on Approach Stability” International Symposium on Aviation Psychology. Dayton, Ohio.
- Nov 2014      Accepted presentation: “Surprise on the Flight Deck – A Full Motion Simulator Study. Flight Safety Foundation – IASS. Abu Dhabi, United Arab Emirates.

- Aug 2014           Invited Keynote Presentation: “Just Culture – Operations Beyond the Text Book”. Also, panel member with Dr. Sidney Dekker and Clark Lin Director of CAA. China Airlines Just Culture conference. Taipei, Taiwan.
- Aug 2014           Accepted presentation: “The Perfect Storm” Lexington & Comair 5191. 2014 FAA Worldwide Airport Technology Transfer Conference. Galloway, NJ.
- Aug 2014           Accepted presentation: Wrong Runway Departures – How are we doing? 2014 FAA Worldwide Airport Technology Transfer Conference. Galloway, NJ.
- June 2013           Accepted presentation: “Cognitive Demands of Staying in Control on Highly Automated Aircraft When Faced with Surprise” The 5<sup>th</sup> Resilience Engineering Association (REA) Symposium. Soesterberg, Netherlands.
- June 2012           Invited speaker: “Second Victims: One Accident Investigator’s Experience”. Presented at the Learning Laboratory for Human Factors Investigators. Master’s Program. Lund University. Lund, Sweden.
- Sept 2011           Accepted presentation: “Designing Realistic Full-Mission Human-in-the-loop Aviation Simulation Studies: Lessons Learned.” Human Factors and Ergonomics Society (HFES) Annual meeting. Las Vegas, Nevada.
- May 2011           Accepted presentation: “Human Factors Issues of Navigation Reference System Waypoints” International Symposium on Aviation Psychology. Dayton, Ohio.
- Nov 2010           Invited speaker. “The Lexington air disaster - analyzing an air accident, step by step”. Risky Business Conference. London, England.
- Mar 2006           Invited speaker. “The Use of Color in Aircraft Flight Deck Displays” Human Factors in Aviation Safety Course. Instructors Captain Robert Sumwalt and Dr. Najmedin Meshkati. University of Southern California (USC). Viterbi School of Engineering. Los Angeles, CA.
- Aug 1991           Invited speaker. “Pre-Hospital Emergency Pharmacology.” Presented at the International Fire and Rescue Conference annual meeting. Columbus, Ohio.

### **National Forums**

- May 2019           Invited Keynote Presentation. “Safety Differently”. Risk Control conference. Chicago, IL.

April 2019                      Invited Speaker. “Unexpected Events and Flight Crew Resilience” Presented at the 2019 Human Systems Integration Summit, CAMI, Oklahoma City, OK.

March 2019                      Invited speaker. “Automation’s impact on safety and operations”. Presented at the 2019 Air Charter Safety Symposium. National Transportation Safety Board Training Academy. Ashburn, Virginia.

October 2018                    Invited Keynote Presentation: “Human Performance and Research Opportunities”. Also panel member with Dr. David Marx. Electric Power Research Institute (EPRI). Dallas, Texas.

May 2018                        Invited panelist. Air Line Pilot’s Association. Trained for Life: Human-centered Approach to Safety Conference. Panel “Training for the Unexpected: A Focus on Resilience”. Washington, D.C.

October 2016                    Accepted presentation: Illuminating Engineering Society of North America – Aviation Lighting Committee. “Linear Airfield Lighting Evaluations: From the Laboratory to the Field.” San Diego, CA.

July 2016                        Invited Speaker. EAA Air Venture, “General Aviation Research Update.” Oshkosh, Wisconsin.

July 2016                        Invited panelist. National Fallen Firefighters Foundation Annual Technology conference. Panel “Human Performance Factors Related to the use of Technology”. Oakland, CA.

January 2016                    Accepted presentation: “Increasing General Aviation Safety through Data Analysis”. Presented at ERAU AirCon<sup>3</sup>, Phoenix, AZ.

January 2016                    Accepted presentation: “Surprise on the Flight Deck A Full Motion Simulator Study”. Presented at ERAU AirCon<sup>3</sup>, Phoenix, AZ.

September 2012                Invited speaker. “Automation Problems and the Need for a New Design Paradigm”. Presented at the Human Factors and Wings Seminar. Pensacola, Florida.

March 2011                      Invited speaker. “Building a Positive Safety Culture in Your Organization”. Presented at the 2011 Air Charter Safety Symposium. National Transportation Safety Board Training Academy. Ashburn, Virginia.

September 2010                Invited panelist. “Safety Culture – Its Not Just an Accident”. At the 62nd Annual National Business Aviation Association (NBAA) convention. Presented at the Safety Town Hall Meeting. Atlanta, GA .

- June 2010 Accepted presentation: “Human Factors Considerations for Incident Investigations”. Presented at FAA Aviation Shared Vision conference. San Diego, CA.
- March 2010 Invited speaker. “Creating a Just Culture in Your Organization”. Presented at the Human Factors and Wings Seminar. Dallas, Texas.
- January 2010 Invited speaker. “System Safety and Crew Resource Management”. Presented at the Boeing Executive Flight Operations Safety meeting. Palm Springs, California.
- March 2009 Invited speaker. National Transportation Safety Board’s Human Error, Just Culture and Resilience Meeting. Presented case report of Libyan Arab Airlines Flight 114 with Sidney Dekker. Washington, D.C.

**Regional/Local Forum**

- March 2019 Invited speaker. Safety Differently. The Center for Disease Control (CDC)/NIOSH. Cincinnati, Ohio.
- September 2016 Invited speaker: Cognitive Engineering – An Overview. Local IISE chapter at The Ohio State University, Columbus, Ohio.
- September 2016 Invited speaker: US Airways 1549 - The Role of CRM & Human Factors in a successful accident. Local HFES chapter at The Ohio State University, Columbus, Ohio.
- February 2016 Invited speaker: The Comair 5191, Lexington Accident – An Investigator’s Perspective. EAA Chapter 9, held at The Ohio State University airport, Columbus, Ohio.
- December 2014 Invited Speaker: CRM and the Making of a Resilient Health Care Team. Nationwide Children’s Hospital – Education Day, Hospital staff. Nationwide Children’s Hospital. Columbus, Ohio.
- April 2014 Invited panelist: Battelle Center Tech Talks – International Aviation, Technology and Policy in the 21<sup>st</sup> Century. John Glenn School. Ohio State University, Columbus Ohio.
- February 2014 Invited speaker: The Role of Human Factors in Flight Safety and Accident Investigation. Local HFES chapter at The Ohio State University, Columbus, Ohio.
- July 2012 Invited speaker: CRM and the Making of a Resilient Health Care Team. “Grand Rounds” Trauma Team. Nationwide Children’s Hospital. Columbus, Ohio.

- July 2012                   Invited speaker: OTC Medications and Decision Making Traps. The Scioto Valley Chapter of the Women's Ninety-Nines. Columbus, Ohio.
- March 2012                   Invited speaker: CRM and the Making of a Resilient Health Care Team. "Grand Rounds" The Ohio State University College of Medicine. Wexner Medical Center. Columbus, Ohio.
- January 2011                   Invited speaker: Human Error and a Viable Safety Culture in Health Care. Pharmacy 850: Seminar for MS in Health Systems. The Ohio State University College of Pharmacy. Columbus, Ohio.
- February 2008                   Invited speaker: "Comair 5191, Situational awareness and lessons Learned". Professional Pilot's Association of Central Ohio. Columbus, Ohio.
- November 2006                   Invited speaker: "Human Factors". Pharmacy 816: Medication Use System Management. Dr. Phil Schneider. Graduate Program in Pharmaceutical Administration. The Ohio State University College of Pharmacy. Columbus, Ohio.
- October 2004                   Invited speaker. "Toxicology: Clinical Management of the Overdosed Patient" Pharmacy 779D: Advanced Pharmacotherapeutics. The Nontraditional Doctor of Pharmacy Program: The Ohio State University College of Pharmacy. Columbus, Ohio.
- August 1996                   Invited speaker. "Management of the Overdose Victim". Fairfield- Licking-Perry County Fire School. Lancaster, Ohio.
- October 1994                   Invited speaker. "Toxicology Update." Presented at the Ohio Association of Emergency Medical Services Annual State Meeting. Columbus, Ohio.
- July 1993                   Invited speaker. "Revenge of the Toxic Toddler." Presented at the Ohio Association of Emergency Medical Services Annual State Meeting. Columbus, Ohio.

### **Workshops and Courses**

- April 2019                   Invited presentation: "Safety Differently" workshop. With Bobby Halton and Mike Teague. FDIC International Conference. Indianapolis, Indiana.
- April 2018                   Invited Speaker: Oregon state fire officials and investigator. Serious Accident Review Team Training Course & workshop including investigators and upper rank fire officers. Portland, OR.
- June 2017                   Invited Speaker: Sacramento Fire Department. Serious Accident Review Team Training Course. Workshop with three local metro fire departments including investigators and upper rank fire officers. Sacramento, CA.

May 2017	Invited Speaker: Safe Passage Inc. & Lund University Workshop. <i>Current trends in Resilience Engineering</i> . Workshop with Chris Nemeth, John Allspaw, Anthony Smoker & Kathy Fox. Lund University Learning Lab, Lund University held in Tarrytown, NY.
April 2016	Invited presentation: “Understanding human error - How to develop a just culture at your fire department. An investigator’s perspective. FDIC International Conference. Indianapolis, Indiana.
August 2015	Invited Speaker: Theory of flight and airport operations. Presented at the Port Columbus Regional Airport Authority – Fear of flying course for the public. Port Columbus Airport. Columbus, Ohio.
Sept – Nov 2013	Invited speaker. In theater, post-film question and answer sessions with audience. Topics range from investigative methodologies to film production interests. Chicago, Ill & Napa, CA.
Sept 2009 & Sept 2007	Invited speaker: “The New View and Comair 5191”. Presented at the Learning Laboratory for Human Factors Investigators. Master’s Program. Dr. Sidney Dekker. Lund University. Lund, Sweden.
October 2004 to May 2008	Instructor. “Human Factors in Accident Investigation”. The ALPA Basic Accident Investigation Course. Presented twice a year in several locations. Herndon, VA, San Diego, CA, & San Antonio, TX.
March 2006	Instructor. “Survival Factors In Aircraft Accidents”. The ALPA Basic Accident Investigation Course. Presented in San Antonio, Texas.
March 2005	Invited Facilitator for on-line workshop. “Toxicology: Clinical Management of the Overdosed Patient” Pharmacy 779D: Advanced Pharmacotherapeutics. The Nontraditional Doctor of Pharmacy Program: The Ohio State University College of Pharmacy. Columbus, Ohio.
October 1998	Instructor. “Weapons of Mass Destruction, Chemical Terrorism” Disaster Planning International. Domestic Preparedness Training. Tucson, Arizona.
November 1997	Instructor. “Hazardous Material Operations”. HAZ/MAT DQE. Good Sheppard Hospital. Barrington, Illinois.
September 1997 to February 1996	Invited speaker. “Hazardous Materials in the Emergency Department” Presented to seven different emergency departments throughout Ohio.
June 1996	Course Coordinator & Instructor. “Hazardous Materials Operations and the Poison Center Staff”. A four part lecture series. Central Ohio Poison Center, Children’s Hospital. Columbus, Ohio.

January 1995	Instructor. “Pediatrix.” Presented for the Children’s Hospital Emergency Department staff. Columbus, Ohio.
July 1993	Course Coordinator & Instructor. “Toxitricks”, Presented for Guernsey Memorial Hospital staff. Cambridge, Ohio.
July 1993	Course Coordinator & Instructor. “Toxitricks.” Presented at Emergency Nurses Association Annual Conference. San Antonio, Texas.
January 1992	Instructor. “Pediatrix.” Presented at Emergency Nurses Association Annual Conference. Austin, Texas.
September 1991	Instructor. “Pediatrix.” Presented for the Ohio State University Emergency Department staff. Columbus, Ohio.

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**Media**

**Film/Movie/TV Work**

July 2021	TV Series – <i>National Geographic Air Crash Investigators</i> . Subject matter expert on aircraft accidents. Air Illinois 710. Season 21, episode 8. Filmed in Washington, D.C.
February 2020	TV Series – <i>National Geographic Air Crash Investigators</i> . Subject matter expert on aircraft accidents. Comair 5191. Season 20, episode 3. Filmed in Covington, Kentucky
February 2019	TV Series – <i>National Geographic Air Crash Investigators</i> . Subject matter expert on aircraft accidents. Air Sweden 294. Season 19, episode 2. Filmed in Toronto, Canada.
October 2017	TV Series – <i>National Geographic Air Crash Investigators</i> . Subject matter expert on automation type accidents. China Airlines Flight 140. Season 17, episode 9. Filmed in Toronto, Canada.
December 2015	Movie – “ <i>Aftermath</i> ” – Technical advisor for all aviation scenes. Starring Arnold Schwarzenegger. Specifically reviewing Mr. Schwarzenegger’s lines for authenticity plus set and costume designs. Both pre-production and on scene. Film released to limited theater and DVD. Fictional film. Director Elliot Lester. Release in April 2017. Los Angeles, CA.
December 2015	Movie – “ <i>Aftermath</i> ” – Extra (background) role on memorial/funeral scene with Arnold Schwarzenegger. (Currently in production). To be release in April 2017. Los Angeles, CA.
December 2014	Taped Discussion – For NetJets as SME on the cognitive surprise research that was completed in previous year. To be shown to recurrent ground school classes starting in July, 2015.



- May 2014                      Movie - “*The Tank*” Subject matter expert for actor playing role of professional pilot including mannerisms and supplying wardrobe choices. Fictional film. Director Kellie Madison. Released in US 6/1/2014. Los Angeles, CA.
- July 2012                      TV Series. Mayday - Discovery Channel. Science of disaster – Cruel Skies - *Mayday Series* – Season 8, episode 7.
- February 2012                Movie - “*Sole Survivor*” On camera subject matter expert and post-production assistant for documentary film “*Sole Survivor*”. Director Ky Dickens, Produced by Aurinko, S & McIntyre, A. Release date Fall 2013. Yellow Wing Productions. Chicago, Illinois.
- February 2012                Movie – “*Sole Survivor*” Associate Producer - documentary film “*Sole Survivor*”. Director Ky Dickens, produced by Aurinko, S & McIntyre, A. Film purchased by CNN Films and released in Jan. 2014 to television and iTunes. Yellow Wing Productions. Chicago, IL.

### **Television Newscast**

- March 2022                    Taped interview - Subject matter expert interview on Russian invasion in the Ukraine and its implication on Russian and the global aviation system.
- Voice of America – Anchor – Karina Bafradzhian (3/2)
- January 2022                Taped interview - Subject matter expert interview on airline blacklist and disruptive behavior.
- Sky News Arabia – Anchor – Omar Ali. (1/28)
- January 2022                Live on-air - Subject matter expert interview on 5G cell phone roll-out and radio altimeter concerns.
- Newsorg Arabic – Anchor – Abudiab Sami M. (1/19)
- January 2022                Taped interview - Subject matter expert interview on 5G cell phone roll-out and radio altimeter concerns.
- Voice of America – Anchor – Karina Bafradzhian (1/18)
- April 2021                    Live on-air – US sharing vaccines all over the world and its implications in a full return to global aviation. Shared discussion with Walid Al-Batouti
- Asharq News. Middle East.- Anchor Sahar (4/26)
- April 2021                    Live on-air – Resumption of air service after a year of COVID. Safety impacts on re-start of air service.
- Asharq News. Middle East - Anchor Sahar (4/3)

- February 2021      Live on-air expert – Resumption of air service after a year of COVID impact on the aviation industry.  
 ➤ Asharq News. Middle East - Anchor Sahar (2/9)
- January 2021      Live on-air expert - Indonesian transportation lines, Boeing 737-500 after takeoff from Jarkarta Indonesia.  
 ➤ Asharq News. Middle East - Anchor Sahar (1/9)
- January 2020      Taped interview – Ukrainian Airlines shoot down in Iran.  
 ➤ CBC. Canadian Broadcast - Anchor Susan Ormiston (1/10)
- March 2019      Taped interview – Ethiopian Airlines Flight 302 Boeing 737 Max8 crash.  
 ➤ NBC4, 11PM newscast - Anchor Dan Pearlman (3/13)
- March 2019      Live on-air expert – Ethiopian Airlines Flight 302 Boeing 737Max8 crash.  
 ➤ CBC. Canadian Broadcast - Anchor Sue Anna (3/11)
- October 2018      Taped interview – Accident flight 173, Portland and how it resulted in CRM  
 ➤ KOIN Portland, Oregon. Reporter Justin Burton (10/16)
- February 2018      Taped interview – Air Traffic Controller drug testing and airspace safety.  
 ➤ WKYC Cleveland, Ohio. Reporter/Producer Phil Trexler (2/18)
- January 2017      On-air expert – Cessna Citation accident at Burke Lakefront.  
 ➤ ABC/Fox 28. Columbus, Ohio. Reporter Rob Wells (1/3)  
 ➤ NBC Channel 4 – Columbus, Ohio. Reporter Harrison Hove (1/4)
- August 2016      Live on-air expert – Automation and self-driving cars.  
 ➤ Fox News KTVU Oakland CA - Anchors: Ken Wayne & Ted Rowlands (8/22)
- May 2016      Live on-air expert – Loss of Egypt Air Flight 804  
 ➤ CNN – On panel with Brooke Baldwin as anchor (5/19)(5/19)
- November 2015      Live on-air expert – Loss of Metrojet 9268.  
 ➤ Al Jazeera America - Anchor: Del Walters (11/5)
- October 2015      Live on-air expert – Aircraft and no-fly considerations.  
 ➤ Channel News Asia – Singapore  
 • Live interview with two anchors. (10/13)
- Sept. 2015      On-air expert – British Airways Flight 2276 fire on takeoff at Las Vegas.  
 ➤ CNN Situation room and Headline News – via satellite  
 • Anchors Wolf Blitzer and Racheal Mead

- July/Aug 2015      Live on-air expert – The disappearance of Malaysian Flight 370, possible finding.
- CNN Headline News – via satellite live
    - Anchors Brooke Baldwin, Richard Quest & Mary Schiavo. (8/5)
  - CNN Headline News – via satellite live
    - Anchors Brooke Baldwin & Richard Quest. (7/30)
  - Canadian Broadcasting Corporation CBC
    - Anchor Ian Hanomansing (7/30)
- July 2015            Interview regarding aircraft diversion to Port Columbus after security scare.
- ABC/Fox 28. Columbus, Ohio
    - Reporter Rob Wells
- May 2015            Live on-air expert – Aircraft in-flight hacking claims from FBI report.
- Channel News Asia – Singapore
    - Live interview with two anchors. (5/17)
- May 2015            Live on-air expert – Summer travel safety
- WBNS 10TV –
    - Reporter Brittany Begley (5/13)
- Mar/Apr 2015       Live on-air expert – Loss of Germanwings Flight 9525
- CNN Headline News –
    - Anchor Brooke Baldwin (4/3)
  - ABC/Fox 28. Columbus, Ohio
    - Reporter Rob Wells (3/30)
  - Fox Business News. New York
    - Anchor - Maria Bartiromo (3/27)
  - NBC4. Columbus, Ohio.
    - Reporter David Mazza (3/27)
- March 2015          On-air expert interview – Blackhawk military accident off the coast of Florida.
- NBC Channel 4 – Columbus, Ohio
    - Anchor – Harrison Hove
- March 2015          Live on-air expert – One year anniversary of the disappearance of Malaysian Flight 370
- Canadian Broadcasting Corporation CBC
    - Anchor Reshmi Nair (3/7)
- February 2015       Live on-air expert - Loss of Trans Asia Flight 235
- CNN Headline News –
    - Anchors: Wolf Blitzer (2/4), Brooke Baldwin (2/4)

- Dec/Jan 2014      Live on-air expert – Loss of Air Asia Flight 8501.
- Al Jazeera America
    - Anchors: Del Walters (1/14), Richelle Carey (1/8), Morgan Radford (1/2)
  - NBC Channel 4 – Columbus, Ohio
    - Anchor – David Mazza (1/30), (12/30)
  - CNN Headline News & New Day Show –
    - Anchors: Kristy Paul & Victor Blackwell (1/3), Ana Cabrera (1/2)(1/2), Michaela Pereira & John Berman (12/29), Carol Costello (12/29)
  - Channel News Asia – Singapore
    - Live interview. (12/28)
  - Canadian Broadcasting Corporation CBC
    - Anchor Christine Birak (12/28)
- October 2014      Fatal accident for Virgin Galactic spacecraft.
- ABC6/FOX28 –
    - Reporter Ben Garbarek Interview for later news broadcast at 10/11PM shows (10/31)
- July/Aug 2014      Live on-air expert – Shoot-down and crash of Malaysian Flight 17 in the Ukraine.
- Channel News Asia – Singapore
    - Live interview with three anchors. (8/4)
  - ABC6/FOX28 –
    - Reporter Tara Morgan Interview for later news broadcast (7/17)
    - Anchors Carolyn Bruck & Pete Scalia Good Morning Columbus – Live interview (7/18)
  - Canadian Broadcasting Corporation CBC
    - Anchors: Reshmi Nair (7/17), Christine Murak (7/19)
  - WBNS 10TV – Interview for later news broadcast.
    - Reporter Kevin Landers (7/17)
- July 2014      Live on-air expert – Near-miss aircraft collisions and released FAA report.
- Fox Business News –
    - Anchor Neil Cavuto (7/23)
- July 2014      Live on-air expert – FAA restriction on Tel Aviv US based flights.
- CNN Headline News –
    - Anchor Carol Costello (7/23)
- May 2014      Live on-air expert – Story on near mid-air airline collisions in Houston and Newark.
- Canadian Broadcasting Corporation CBC
    - Anchor Carol MacNeil (5/23)

- March 2014                      Live on-air expert – The disappearance of Malaysian Flight 370.
- CNN Headline News – in Studio, New York City
    - Anchors Chris Cuomo & Kate Bolduan – New Day Show (4/29)(4/29)(4/29)
  - CNN Headline News – via satellite live on 20 occasions.
    - Anchors: Christie Paul (5/2)(5/2), Pamela Brown (5/1), Brianna Keilar (4/7)(4/7), Brooke Baldwin (3/26)(4/1)(4/1)(4/23), Chris Cuomo and Kate Bolduan – New Day Show (3/25) (3/26) (4/8) (4/17)(4/17)(4/22)(4/28)(4/28), Anderson Cooper (3/24), Fredricka Whitfield (3/16), Don Lemom. (3/13) (Two hour special on 3/23)
  - Fox News. The Kelly Files
    - Anchor Megyn Kelly (One hour show taped - 3/20) - Aired from 3/21-3/23.
  - Canadian Broadcasting Corporation CBC
    - Anchors: Reshmi Nair (3/28), Andrew Nichols (3/25, 3/26)
  - Canadian TV
    - Anchor Dan Mathenson (3/28)
  - NBC4. Columbus, Ohio.
    - Reporter David Mazza (3/24)
- January 2014                      Live on-air expert - Aircraft accident victim’s recovery in conjunction with the release of CNN’s Sole Survivor film.
- CNN Headline News – via satellite live.
    - Anchor Brooke Baldwin (1/9)
- November 2013                      Taped interview - Buckeye TV regarding the new FAA policy for electronic devices while flying. The Ohio State University, Columbus, Ohio.
- July 2013                              Press briefing (Pre-film showing) - Sole Survivor premiere in Lexington, Ky. Kentucky Theater. Shown on 11PM evening news July 18 and next day newscasts. Lexington, KY.
- September 2009                      Background interview - WBNS 10 TV for a story aired on the evening 5:30PM newscast, (9/15). Consulted as aviation expert regarding laser incident with a commercial aircraft at Port Columbus International Airport. WBNS studios, Columbus, Ohio.
- January 2009                              Live on-air expert - WBNS 10 TV Evening 5:30PM newscast, January 16. Discussion regarding the US Airways Flight 1549 ditching in New York. WBNS studios, Columbus, Ohio.

## Radio

- March 2022            Subject matter expert interview on the China Eastern Airlines Boeing 737-800 crash
- KNX 97.1 News radio – Los Angeles.
    - Anchors – Mike and Charles (3/22)
- January 2022            Subject matter expert interview on 5G cell phone roll-out and radio altimeter concerns.
- KNX 97.1 News radio – Los Angeles.
    - Anchors – Mike and Charles (1/13)
- February 2021            Subject matter expert interview on United 777 engine failures.
- KNX 97.1 News radio – Los Angeles.
    - Anchors – Mike and Charles (2/23)
- March 2020            Background interview – Marketplace - NPR – Coronavirus and the global aviation industry. Reporter Jack Stewart (3/2)
- Sept. 2019            Live on-air expert – Boeing 737Max and EASA disagreement.
- CBS Radio Los Angeles
    - Anchor – Mike & Bob (9/12)
- June 2019            Live on-air expert – Boeing slat recall and the aviation industry
- CBS Radio Los Angeles
    - Anchor – Chris & Bob (6/3)
- April 2019            Background interview – Marketplace - NPR – Automation and 737MAX8.
- Reporter Jack Stewart (4/4)
- April 2019            Background interview – NPR – Automation and 737MAX8.
- Reporter David Schaper (4/3)(4/4)
- March 2019            Live on-air expert - Interview on the loss of Ethiopian Airlines Flight 302 Boeing 737MAX8.WWL First News. AM/FM. New Orleans.
- Anchor Tom Tucker (3/14)(3/19)
- March 2019            Live on-air expert - Interview on the loss of Ethiopian Airlines Flight 302 Boeing 737MAX8. Sirius XM. North America
- Anchor Emily Jackson – Canada Talks. CH167 (3/14)
- January 2019            Live on-air expert – Ten-year anniversary of US Air 1549
- CBS Radio Los Angeles
    - Anchor – Chris Sedens & Bob Brill (1/15)

- April 2018            Live on-air expert – Southwest catastrophic engine failure  
 ➤ CBS Radio Los Angeles  
     • Anchor – Jonathan Serviss (4/17)
- March 2018            Live on-air expert – The airline reports of a UFO in flight  
 ➤ CBS Radio Los Angeles  
     • Anchor – Jonathan Serviss (3/29)
- February 2017        Live on-air expert – Twin Engine Crash in Riverside California  
 ➤ CBS Radio Los Angeles  
     • Anchor – Chris Sedens (2/28)
- September 2016      Live on-air expert for the Peggy Smedley Show. *Next generation air traffic system*. WSradio.com. Anchor – Peggy Smedley. (9/13)
- August 2016           Live on-air expert for Fire Engineering broadcasts 2 hr. show. “*How to think differently about human error and how it can help or hinder a Just Culture*”. Anchors – Capt. Mike Dugan and Capt. Mike Gagliano. (8/17)
- May 2016              Live on-air expert – Loss of Egypt Air Flight 804  
 ➤ CBS Radio Los Angeles  
     • Anchor - Linda Nunez (5/25)  
     • Anchor – Chris Sedens & Bob Brill (5/19)
- July 2015              Live on-air expert – The disappearance of Malaysian Flight 370, possible finding.  
 ➤ CBS Radio Los Angeles  
     • Anchor – Dick Halton & Jan Stevens (7/30)
- May 2015              Live on-air expert – Aircraft in-flight hacking claims from FBI report.  
 ➤ CBS Radio Los Angeles  
     • Anchor – Dick Halton & Vivki Moore (5/18)
- April 2015             Live on-air expert – American Airlines iPad failure and delayed flights  
 ➤ CBS Radio Los Angeles  
     • Anchor – Dick Halton & Vivki Moore (4/29)
- March 2015            Live on-air expert - Loss of German Wings Flight 9525  
 ➤ CBS Radio Los Angeles  
     • Anchor – Dick Halton & Vivki Moore (3/27)
- Sirius XM. North America  
     • The Arlene Bynon Show – Canada Talks (3/27)
- December 2014        Live on-air expert – Loss of Air Asia Flight 8501.  
 ➤ Radio New Zealand's Morning News Report – Wellington, NZ  
     • Host Ian Telfer (12/30)

- BBC News – London, England
  - Hosts George Riley (12/28)
  
- July 2014      Live on-air expert – Shoot-down of Malaysian Flight 17 (Ukraine).
  - BBC News – London, England
    - Hosts Steven Knowland (7/18)
  
- March 2014      Live on-air expert – The disappearance of Malaysian Flight 370.
  - Radio New Zealand's Morning News Report – Wellington, NZ
    - Host Goyon Espiner (3/29)
  - BBC News – London, England
    - Hosts Tony Livesey & Samantha Walker (3/26)
  - WWL First News. AM/FM. New Orleans.
    - Host Tom Tucker (3/19)
  - Sirius XM. North America
    - The Arlene Bynon Show - Canada Talks (3/17)
  - 610WTVN Columbus, Ohio
    - The John Corby Radio Show (3/14)

**Newsprint/Internet/Magazine**

- June 2022      New York Times
  - Interview for article on travel challenges, weather and staffing cancellations. Reporter – Heather Murphy (6/28)
  
- March 2022      New York Times
  - Interview for article on the China Eastern Airlines Boeing 737-800 crash. Reporter – Niraj Chokshi (3/21)
  
- January 2022      Curt-Lewis Newsletter
  - “Here we go again, “pilot error”, really?” Opinion piece in “Flight Safety Information – January 6<sup>th</sup>, 2022 No. 4 Edition”. Distributed global scale.
  
- June 2021      Miami Herald
  - Interview for article on an incident of an aborted takeoff due to main cabin door opening indication. Reporter - Allie Pitchon
  
- November 2019      New York Times
  - Interview for article on the Turkish Airlines accident in 2008 and current problems with Boeing 737 MAX. Reporter – Chris Hamby (11/19)
  
- October 2019      Washington Post
  - Interview for article on airline safety and pilot training in the US. Reporter – Lori Aratani (10/1)



- May 2019 Chicago Tribune  
 ➤ Interview for article on airline safety from the perspective of the manufacture, the FAA and the airlines. Anniversary of American Airlines Flight 191 accident. Reporter – Lauren Zumbach (5/1)
- March 2019 Airline Weekly  
 ➤ Interview for article on the loss of Ethiopian Airlines Flight 302 Boeing 737MAX8. Editor - Madhu Unnikrishnan (3/13)
- March 2019 Pravda Newspaper - Deputy Head of Foreign Desk. Slovakia  
 ➤ Interview for article on the loss of Ethiopian Airlines Flight 302 Boeing 737MAX8 Reporter – Andrej Matisak (3/10)
- January 2019 [www.theconversation.com](http://www.theconversation.com)  
 ➤ Article on the anniversary of the loss of Amelia Earhart and modern day aircraft tracking. With Brian Strzempkowski. (1/4)
- November 2018 Wired Magazine  
 ➤ Interview for Air Astana in Lisbon near loss of control. Reporter – Alex Davies (11/12)
- October 2018 Self Magazine  
 ➤ Interview regarding aircraft safety for passengers. Reporter – Carolyn Todd (10/5)
- May 2017 Fortune Magazine  
 ➤ Interview on the recent spike in forced removals from airline cabins. Reporter – Eric Jenkins – (5/5)
- March/April 2017 The Dayton Daily News  
 ➤ Interview on Spirit Airlines pilot found at home with wife both dead from possible heroin overdose/fentanyl contamination. Reporter Will Garbe - (3/17)(4/6)
- December 2016 [www.theverge.com](http://www.theverge.com)  
 ➤ Interview on Facebook's drone Aquila at the end of its inaugural test flight. Reporter Casey Newton Senior Editor – (12/16)
- August 2016 The Atlantic Magazine.  
 ➤ Interview on near-miss reporting and how the airlines can better leverage this for a more proactive safety culture. Reporter Richard Korman – (8/4)
- July 2016 Big Ten Network.  
 ➤ Interview on NextGen and how it is transforming the aviation infrastructure. Reporter John Tolley – (7/20)

- July 2016 Wall Street Journal – Front page  
 ➤ Interview for article on automation and Tesla fatal accident. Reporter Daniel Michaels - (7/14)
- May 2016 Pravda Newspaper - Deputy Head of Foreign Desk. Slovakia  
 ➤ Interview for article on the loss of Egypt Air Flight 804. Reporter – Andrej Matisak (5/22)
- April 2016 Cleveland Plain Dealer  
 ➤ Interview for article on business jet crash in Akron last fall. Release of CVR. Reporter Adam Ferrise (4/16)((11/15)
- July 2015 Toronto Star  
 ➤ Interview for article on runway incursion event at Toronto City airport after aircraft damage on runway. Reporter Laurent Bastien Corbeil (7/14)
- July 2015 Wall Street Journal – Front page  
 ➤ Interview for article on voluntary safety reporting programs in the United States. Reporter Daniel Stacey- (5/7)
- March 2015 Pravda Newspaper - Deputy Head of Foreign Desk. Slovakia  
 ➤ Interview for article on the loss of Germanwings Flight 9525. Reporter – Andrej Matisak (3/25)
- December 2014 The Bend Bulletin  
 ➤ Interview for article on EMS Aeromedical Flight Safety & Culture. Reporter - Markian Hawryluk (12/8)
- November 2014 Wall Street Journal  
 ➤ Interview for article on air safety and emergency procedures Reporter - Andy Pasztor (11/13)
- August 2014 Cleveland.com and The Plain Dealer  
 ➤ Interview for article on fatal GA crash (4) in Willoughby, Ohio. Reporter - John Harper (8/26)
- July 2014 Pravda Newspaper - Deputy Head of Foreign Desk. Slovakia  
 ➤ Interview for article on shoot-down and crash of Malaysian Flight 17 in the Ukraine. Reporter - Andrej Matisak (7/19)
- April 2014 [www.defenseone.com](http://www.defenseone.com)  
 ➤ Interview for article on DARPA automation design and adaptive technologies related to pilot workload management. Technology Editor - Patrick Tucker.
- March 2014 Interviews in relation to the disappearance of Malaysian Flight 370.  
 • CNBC.com. Nia Hamm. (3/28)

- Newsmax Media. David Patten (3/27)
- USA Today. Front page, above the fold. Gary Strauss. (3/24)
- OSU Lantern. Chahinaz Seghiri. (3/21, 3/25)
- Columbus Dispatch. Dean Narciso. (3/19)
- Bloomberg International News. Kyle O'Donnell (3/17)
- Travel Pulse.com. Rich Thomselli. (3/14)

July 2013                      The Courier-Journal (Louisville) newspaper  
    ➤ Interview on the movie Sole Survivor and the investigation of the Comair 5191 accident in Lexington KY.

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**Other Committee Work:**

April 2020                      Judge for the ISE Capstone poster sessions. College of Engineering.

April 2020                      Judge for the OSU Undergraduate Research Forum. College of Engineering.

Aug. 2019 to April 2021                      Mentor for Ohio State STEP Program (Second-year Transformational Experience Program).

Mar 2018 to present                      Member Undergraduate Honors Committee. College of Engineering. Ohio State University, Columbus, Ohio.

March 2012                      College of Engineering Graduate Student member of selection committee for the following two faculty awards:

- Harrison Faculty Award for Excellence
- Clara M. and Peter L. Scott Faculty Award

Mar1990-Apr1993                      Member: Education Committee. The Central Ohio Poison Center. Columbus, Ohio.

Sept 1986-May 1989                      Member: Drug Abuse Education Committee. The Ohio State University. College of Pharmacy. Columbus, Ohio.

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**Grants: Total - \$ 4,373,972**

June 2021 to May 2023                      Principle Investigator (OSU): COE TTHP. Flight Program Operations into safety culture within the FAA flight operations - \$314,442 research grant.

October 2019 to December 2021                      Research Scientist (HFIE): Air Carrier Training Recommendations to Address Limitations of Pilot Procedures during Unexpected Events in NextGen Operations - \$499,709 FAA research grant.

October 2017 to June 2018	Technical Assistant (OSU): PEGASAS - PEGASAS Weather in the Cockpit Study 4. Collaboration with Purdue University and Western Michigan University. \$159,227 research grant.
June 2016 to Nov 2021	Principal Investigator (OSU): PEGASAS - Problem Solving/Decision Making and Procedures for Unexpected Events. \$295,000 research grant.
July 2016 to September 2017	Technical Lead (OSU): PEGASAS - PEGASAS Weather in the Cockpit Study 3. Collaboration with Purdue University and Western Michigan University. \$68,978 research grant.
June 2016 to December 2016	Technical Assistant (OSU): PEGASAS – Aviation Safety Database Collaboration with Iowa State University and Florida Institute of Technology. \$193,000 research grant.
January 2016 to June 2016	Technical Lead (OSU): PEGASAS Acquisition Distance of LED-based Runway Closure Lighting. Collaboration with Purdue University and Florida Institute of Technology. \$95,000 research grant.
September 2015 to April 2016	Technical Lead (OSU): PEGASAS Angle-of-Attack study (Derived) II. Collaboration with Purdue University & Florida Institute of Technology. \$20,000 research grant.
July 2015 to June 2017	Technical Assistant (OSU): PEGASAS LED Hot/Cold Research. Collaboration with Iowa State University and Texas A&M University. \$259,616 research grant.
April 2015 to April 2016	Technical Lead (OSU): PEGASAS National General Aviation Information Database. (NGAFID) II. Collaboration Georgia Tech and Purdue University. \$163,000 research grant.
February 2015 to June 2016	Technical Lead (OSU): PEGASAS Weather in the Cockpit Study II. Collaboration with Southern Illinois University, Kent State University, Purdue University. \$257,000 research grant.
August 2014 to September 2016	Technical Lead (OSU): PEGASAS Airport SMS Software Analysis. Collaboration with Southern Illinois University & Florida Institute of Technology. \$330,000 research grant.
August 2014 to June 2016	Technical Lead (OSU): PEGASAS Linear LED Lighting. Collaboration with Purdue University. \$512,000 research grant.
May 2014 to June 2016	Technical Assistant (OSU): PEGASAS Centerline Deviation Study. Collaboration with Southern Illinois University, Kent State University. \$600,000 research grant.

January 2014 to December 2014	Technical Lead (OSU): PEGASAS Weather in the Cockpit Study I. Collaboration with Southern Illinois University, Kent State University. \$257,000 research grant.
January 2014 to December 2014	Technical Lead (OSU): PEGASAS National General Aviation Information Database. (NGAFID). Collaboration with Purdue University, University of North Dakota and Georgia Tech. \$163,000 research grant.
September 2013 to December 2014	Technical Lead (OSU): PEGASAS Angle-of-Attack study. Collaboration with Purdue University & Florida Institute of Technology. \$141,000 research grant.
November 2012 to September 2013	Principle Investigator: Center for Aviation Studies at Ohio State and NetJets Seed Grant Program. NextGen Implementation and Industry Participation. \$10,000 Research Grant.
February 1996 to February 1997	Co-Investigator: Pruchnicki, S, Laubacher, M. Conrail Inc. Regional Professional Education Program. The Central Ohio Poison Center. \$36,000 Hazardous Materials Research & Education Grant.

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**Editorial Responsibilities:**

September 2021	Invited, reviewer and referee for Easeediting. To assist and support papers those researchers where English is not their primary language. Beijing China.
April 2021	Invited, Referee for <i>Frontiers in Public Health</i> . One review completed
November 2019	Invited, Referee for <i>Reliability Engineering and System Safety</i> . One review completed.
April 2018	Invited Referee for <i>Aeronautical Journal</i>   Aerospace International Royal Aeronautical Society. Two reviews completed.
December 2017	Invited Referee for <i>Ergonomics</i> . One review completed.
June 2017	Invited Referee for <i>Journal of Cognitive Engineering and Decision Making</i> . One review completed.
August 2016	Reviewed book proposal (2 books) for Routlage Publishing. London, U.K.
July 2016	Invited Referee for <i>Safety Science</i> . Seven reviews completed.
July 2016	Invited Editorial Board Member for International Journal of Aeronautical Science & Aerospace Research (IJASAR). Have either supervised or completed three reviews

- January 2015      Invited Referee for *Process Safety and Environmental Protection*. The Cu official journal of the European Federation of Chemical Engineering. The Netherlands.
- December 2013      Reviewed ISCRR grant proposal for use of technology in traumatic brain injury patients. Monash University, Queensland, Australia.
- Oct 2009              Reviewed book proposals (3 books) for Ashgate Publishing Company. London, U.K.
- Oct 1993-Feb 1999      Creator and Senior Editor- *The Antidote*. The Central Ohio Poison Control Center's Educational Newsletter. Children's Hospital. Columbus, Ohio.
- Mar1991-Mar 1992      Review Editor. Pre-hospital Drug Therapy. Text book project. Gonsoulin SH, Raynovich, Mosby Lifeline Publishing. New York.
- Sept 1990-Sept 1996      Review Editor. Journal of Emergency Medical Services (JEMS). EMS Journal. Pharmacology and Toxicology related chapters.

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**Professional Organizations:**

- June2022              Fellow - International Society of Air Safety Investigators (ISASI).
- May 2016              Associate Member – Society of Experimental Test Pilots
- June 2015              Associate Member – The Charter Institute Ergonomics & Human Factors
- February 2015          Member - Royal Aeronautical Society
- July 2013              Member - The Honor Society
- March 2013              Member - Resilience Engineering Association
- September 2012          Member - Phi Kappa Phi Honor Society
- December 2011          Member - Institute of Electrical and Electronic Engineers (IEEE)
- August 2008              Associate Member - Human Factors and Ergonomics Society
- May 2003              Member - Association for Aviation Psychology (AAP)
- June 2003/June2022      Associate Member - International Society of Air Safety Investigators (ISASI).

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**Honors:**

- 2013                      Invited member of the Honor Society based on grade point average.
- 2012                      Invited member of Phi Kappa Phi Honor Society. Grade point in top 10% of graduate students at Ohio State.
- 2006                      Graduated with distinction. GPA 4.0. Master of Science; Master of Aeronautical Science – Human Factors. Embry-Riddle Aeronautical University. Daytona Beach, Florida.
- 1990                      Honor Graduate. Paramedic class of 1990. Highest GPA. Grant Medical Center Paramedic Program.

1989 Pfizer Award for excellence in community Pharmacy practice.

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**Community Work:**

2015 – 2022 Instructor at the Port Columbus Regional Airport Authority “Fear of Flying” course for the public. With OSU Department of Psychology.

2008 - 2015 Church volunteer, crosswalk guard and concession work at events.

2007 - 2014 Local community sports coach for 5/6-year-old sports. Basketball, baseball and soccer.

2006 - 2007 GRE tutoring. Helped prospective GRE students with math and reading skills.

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**References:**

Capt. (Ret.) Shawn Etcher – Operations Air Safety Investigator, National Transportation Safety Board (NTSB). (202) 527-4610

Capt. (Ret.) Mitch Serber – Chief Safety Officer, Boeing Executive Flight Operations. (703) 983-1629

Capt. (Ret.) Alan Dean – Safety Officer, Boeing Aircraft. (219) 669-1737

Ky Dickens – Film Maker, Director. Yellow Wing Productions. (312) 907-2509