

## **Shawn A. Pruchnicki, MSc, Rph, CSPI**

### **Home/Office:**

4714 Longridge Court  
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### **Statement of Research Focus:**

My research interest lies in the area of safety/just culture, accountability and how these are operationalize in safety sensitive domains. Understanding socio-technical failure and using such understanding proactively is one goal. I would like to focus specifically on how models of organizational behavior, ethics and organizational accountability look when viewed through complexity theory.

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### **Professional Education:**

Current	PhD program. Industrial Systems Engineering. Cognitive Engineering - Human Factors. Academic Advisor Dr. David Woods. The Ohio State University. Columbus, Ohio
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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### **Professional Experience:**

July 2012-Present	Faculty (Lecturer): The Ohio State University, Columbus Ohio. Center for Aviation Studies. Courses taught in cognitive engineering (Industrial Systems Engineering), aviation safety/human factors, advanced aircraft systems, aviation weather and aircraft performance, accident investigation.
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- Dec 2009 – Present 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.
    - Single pilot workload study
    - Navigational Reference System (NRS) project
  - FAA research contract numbers:
    - 09-AJP61FGI-0101
    - 09-AJP61FGI-0102
- Jun 2009-Present Owner and Chief Researcher; Human Factors Investigation and Education. Columbus, Ohio
- Human Factors expertise specializing in accident investigation and safety/just culture implementation. Has worked with several airlines and medical organizations to help them achieve their safety goals.
- 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. Delta Connection. Erlanger, KY
- Cat II Qualified.
  - Scheduled Part 121 airline
  - Operations throughout United States, Mexico, Bahamas and Canada.
- Aug 1989-Present 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 67,000 calls managed to date.

- 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.
  - Functioned as medic in charge of EMS runs as required.

**Additional Teaching Positions:**

- 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 tutors that are teaching year one Masters students.
  - 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 focus was 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 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 was 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
    - Safety Two School
    - Advanced Accident Investigation
    - Basic Accident Investigation
    - Basic Safety Course & Bloodborne Pathogen Training.

**Licensure:**

- Jul 1991-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.
- Jul 1989-Present Pharmacist. Ohio State Board of Pharmacy. Licensure #03-2-17688.

**Aviation Certificates:**

- Airline Transport Pilot: Airplane Multi-Engine Land
  - Type rating CL-65 turbojet
- Commercial pilot: Airplane Single-Engine Land
- Flight Instructor: Airplane Single-Engine & Multi-Engine Land, Instrument
- Ground Instructor: Basic, Instrument, Advanced

**Flight Time:**

Total	4267	Turbojet PIC	974
PIC	1925	Instrument	318
SIC	2029	Simulator	198
Turbojet	2928	Flight Instructor	615

**Other Professional Activities:**

- Oct 2001-Oct 2008 Air Line Pilots Association (ALPA) Major activities and 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

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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### **Participation in Aviation Accident Investigations:**

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. ALPA 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.

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### **Publications (Peer-reviewed):**

#### Manuscripts

- 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 Waypoints. *Proceedings from the 16<sup>th</sup> International Symposium on Aviation Psychology*. May, 2011. Dayton, Ohio.
- 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.
- 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.
- 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.

## Abstracts/Posters

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.

## Other Professional Papers

Burian, B., **Pruchnicki, S.**, Fry, D. Entry-level jet single-pilot human-in-the-loop simulation research: Study scripts and radio background chatter dialogue. NASA Technical Memorandum. (In review) 2013.

Williams, K., Christopher, B., Drechsler, G., **Pruchnicki, S.**, Rogers, J., Hackworth, C., Burian, B. K., Silverman, E., Gildea, K., Cotton, S., Mead, A. Aviation human-in-the-loop simulation studies: Data management and transformation approaches in preparation for analysis. NASA Technical Memorandum. (In review) 2012.

Burian, B., Christopher, B., Fry, D., **Pruchnicki, S.** Silverman, E. Single jet pilot simulation Study Scenarios Overviews: Task analysis and concurrent task maps. NASA Technical Memorandum (In review) 2012.

Burian, B., **Pruchnicki, S.**, Rogers, J., Christopher, B., Williams, K., Silverman, E., Drechsler, G., Mead, A., Hackworth, C., Runnels, B. Single pilot workload management in entry level jets. NASA study 09-AJP61FGI-0048 and funded through FAA ANG-C1. Pp. 1-201. September, 2012

**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, 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.

#### **Publications (Non-Peer reviewed):**

##### Magazine

**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

## Newsletter

**Pruchnicki, S.** Got Flaps? *The Leading Edge*. The Comair/ALPA Central Air Safety Committee Publication. 6: (2) 1-2, 2007.

**Pruchnicki, S.** Some QRH items not prompted by EICAS. *On Course*. A Comair Airlines safety publication. Spring, 2007.

**Pruchnicki, S.** Go ahead, make that PIREP. *The Leading Edge*. The Comair/ALPA Central Air Safety Committee Publication 4: (1) 14-15, 2005.

**Pruchnicki S.** Over-the-counter medications and flying? *Upfront*. The ALPA Comair MEC Publication. Fall, 2004.

Fessel, D., **Pruchnicki, S.** Are you tired of hearing about fatigue? *The Leading Edge*. The Comair/ALPA Central Air Safety Committee Publication 3: (1) 1-2, 2004.

**Pruchnicki, S.** Dean, A. Self-analysis techniques can prevent accidents. *The Leading Edge*. The Comair/ALPA Central Air Safety Committee Publication 2: (2) 1-2, 2003.

**Pruchnicki, S.** Pilot Behavior May Be a Precursor to Incidents & Accidents. *The Leading Edge*. The Comair/ALPA Central Air Safety Committee Publication 2: (1) 1-2, 2003.

**Pruchnicki, S.** Drug Interaction. *The Leading Edge*. The Comair/ALPA Central Air Safety Committee Publication 1: (1) 6, 2002.

**Pruchnicki, S.** Unprompted QRH Items. *The Leading Edge*. The Comair/ALPA Central Air Safety Committee Publication 1: (1) 10, 2002.

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## **Presentations:**

### **International Forums**

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|---------------|--|
| 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.   |
| November 2010 | Invited speaker. "The Lexington air disaster - analyzing an air accident, step by step". Risky Business Conference. London, England.   |

- Sept 2007 &  
Sept 2009      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.
- 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, California.
- Aug 1991      Invited speaker. “Pre-Hospital Emergency Pharmacology.” Presented  
at International Fire and Rescue Conference annual meeting.  
Columbus, Ohio.

### **National Forums**

- 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. Washington, DC.
- September 2010      Invited panelist. “Safety Culture – It’s Not Just an Accident”. At the  
62th Annual National Business Aviation Association (NBAA)  
convention. Presented at the Safety Town Hall Meeting. Atlanta,  
Georgia.
- June 2010      Invited speaker. “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.
- March 2006      Instructor. “Survival Factors In Aircraft Accidents”. The ALPA Basic  
Accident Investigation Course. Presented in San Antonio, Texas.
- May 2004 to      Instructor. “Human Factors in Accident Investigation”. The ALPA

- October 2008 Basic Accident Investigation Course. Presented twice a year in several locations. Herndon, VA, San Diego, CA, & San Antonio, TX.
- 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.
- 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.

### **Regional/Local Forum**

- 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.
- September 2010 Invited speaker: “Safety and Just Cultures” Aviation 540 and 560. The Ohio State University Department of Aviation. Columbus, Ohio.
- May 2010 Invited speaker: The NTSB and FAA Regulations. Aviation 530: Aviation Law. The Ohio State University Department of Aviation. Columbus, Ohio.
- May 2008 Invited speaker: “Comair 5191- A Human Factors Perspective”. Aviation 540: Human Factors. The Ohio State University Department of Aviation. Columbus, Ohio.
- February 2008 Invited speaker: “Comair 5191, Situational awareness and lessons Learned”. Professional Pilot’s Association of Central Ohio. Columbus, Ohio.

- November 2007      Invited speaker: “Aviation Career Choices; Pilot and Accident Investigation”. Aviation 300: The National Aviation System. The Ohio State University Department of Aviation. 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.
- March 2005          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 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.
- September 1996 to    Invited speaker. “Hazardous Materials in the Emergency Department”  
February 1997        Presented to seven different emergency departments throughout Ohio.
- August 1996         Invited speaker. “Management of the Overdose Victim”.  
Fairfield- Licking-Perry County Fire School. Lancaster, 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. “Pediatrixs.” Presented for the Children’s Hospital Emergency Department staff. Columbus, Ohio.
- October 1994         Invited speaker. “Toxicology Update.” Presented at the Ohio Association of Emergency Medical Services Annual State Meeting. Columbus, Ohio.
- July 1993            Course Coordinator & Instructor. “Toxitricks”, Presented for Guernsey Memorial Hospital staff. Cambridge, Ohio.
- July 1993            Invited speaker. “Revenge of the Toxic Toddler.” Presented at the Ohio Association of Emergency Medical Services Annual State Meeting. Columbus, Ohio.
- September 1991     Instructor. “Pediatrixs.” Presented for the Ohio State University Emergency Department staff. Columbus, Ohio.

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**Other Committee Work:**

- 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

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**Grants:**

- 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.
- One year comprehensive program to better prepare both poison center and emergency department staff to manage victims of hazardous materials exposure.
  - Deliverables included poison center manual for hazardous materials exposures - training program for poison center professional staff - 12 presentations to various emergency department staff members on the management of hazardous materials victims.

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**Media**

- February 2012 Movie - On camera expert and post-production assistant for documentary film "*Sole Survivor*". Director Ky Dickens, Produced by Aurinko, S & McIntyre, A. Release date Fall 2012. Yellow Wing Productions. Chicago, Illinois.
- February 2012 Director Movie – Associate Producer - documentary film "*Sole Survivor*".  
Ky Dickens, Produced by Aurinko, S & McIntyre, A. Release date Fall 2012. Yellow Wing Productions. Chicago, Illinois.
- September 2009 WBNS 10 TV Interviewed as background information for a story aired on the evening 5:30PM newscast, September 15. Consulted as aviation expert regarding laser incident with a commercial aircraft at Port Columbus International Airport. WBNS studios, Columbus, Ohio.
- January 2009 WBNS 10 TV Evening 5:30PM newscast, January 16. Live on-air aviation expert regarding the US Airways Flight 1549 ditching in New York. Viewership around 100,000. WBNS studios, Columbus, Ohio.

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**Editorial Responsibilities:**

- Oct 2009 Reviewed book proposal 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:**

- March 2013 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 (HFES).
- May 2003 Member of the Association for Aviation Psychology (AAP).
- February 2003 Associate Member of the International Society of Air Safety Investigators (ISASI).

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**Honors:**

- 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:**

- 2008 - 2013 Church volunteer, crosswalk guard and concession work at events
- 2007 - 2013 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 – Air Safety Investigator Eastern Region Aviation, National Transportation Safety Board (NTSB). (202) 527-4610

Dr. Barbara K. Burian - Research Psychologist. Human Systems Integration Division NASA Ames Research Center. (706) 348-1617

Capt. (Ret.) Mitch Serber – Multi-Discipline Systems Engineer, MITRE Corporation. (703) 983-1629

Capt. (Ret.) Alan Dean – Chief Safety Officer, Boeing Executive Flight Operations. (219) 669-1737