



Air Safety Consultant and Accident Investigator



Academic Qualifications

- Doctor of Philosophy Aeronautical Science
- Master of Aeronautical Science
- Bachelor of Science in Engineering Physics
- Associates of Applied Science in Manufacturing Engineering Technology
- Extension Diploma Applied General Metallurgy
- United States Air Force Intelligence School

Air Safety and Accident Investigator Qualifications

- US Department of Transportation (DOT) Certified Aviation Safety Investigator (ASI)
- Trained Aerospace Accident Reconstructionist and Failure Analyst (23+ years)
- Founder of DVI Forensic Laboratories, Specializing in Aerospace Failure Analysis
- Aviation Instructor at Lewis University, Teaching Aircraft Accident Investigations
- Illinois Licensed Private Detective, License no. 115002150

Piloting and Maintenance Qualifications

- **National Test Pilot School:** Graduate of Technical Pilot and Upset Prevention and Recovery Courses, and Co-developed the Flight Test Performance and Flying Qualities for ICAO Accident Investigations Course
- **Piloted / Instructed in 65 Different Aircraft:** 30+ years, Turbojets to Crop Dusters to Gliders
- **FAA Licensed Commercial Pilot:** Instrument, SEL, SES, MEL, and Glider
- **FAA Certified Flight Instructor (CFI):** CFI-A, MEI, and AGI
- **FAA Flight Endorsements:** Complex, High Performance, and Tailwheel
- **FAA Aeromedical Institute (CAMI):** Specialized High-Altitude Physiological Education & Training
- **FAA Airframe and Power Plant (A&P) Mechanic:** 30+ years as an Aircraft Mechanic
- **FAA Inspection Authorization (IA)**
- **FAA Designated Mechanic Examiner (DME)**
- **Designated Technical Counselor for Experimental Aircraft Association (EAA)**
- **Safety Management System (SMS) Training**



Steven J. Meyers, Ph.D.
Air Safety Consultant
President and Chief Scientist

Expertise: Piloting, Maintenance, Material Science, Accident Reconstruction

Aircraft Design and Operation	Wreckage Reconstruction	Mechanical Testing
Aircraft Performance	In-Flight Break-Ups	Material Compatibility
Avionics & Autopilots	Mid-Air Collisions	Patent Infringement
Basic & Advanced Pilot Training	Flight Path Reconstruction	Material Failure Analysis
Turbine & Reciprocating Engines	Crashworthiness	Composite Materials
Major Repairs & Alterations	Loss of Control	Mechanical Fasteners
Human Factors	System Failures	Tribology & Wear Testing
TAA Aircraft	In-Flight Fires	Corrosion
FAA Regulations & Certification	Cockpit Automation	Lubricants, Greases, & Fuels

Education **Degrees and Certificates**

- **Doctor of Philosophy in Aeronautical Science**,¹ Capitol Technology University, 2021
- **Master of Aeronautical Science**,² Embry-Riddle Aeronautical University, 2009
- **Bachelor of Science in Engineering Physics**,³ Benedictine University-IL Institute of Technology, 1997
- **Associates of Applied Science in Manufacturing Engineering Technology**,⁴ College of DuPage, 2008
- **Extension Diploma, Applied General Metallurgy**,⁵ Materials Engineering Institute, 2010
- **Certificate, Program Management**, DePaul University, 2001

FAA Ratings **Airman & Mechanic Certificates & Designations**

Commercial Pilot

- Instrument
- Single Engine - Land
- Single Engine - Sea
- Multi-Engine - Land
- Glider

Flight Instructor:

- Single Engine – Land
- Single Engine- Sea
- Multi-Engine- Land
- Advanced Ground Instructor (AGI)

Endorsements:

- High Performance
- Turbine Training
- Tail-wheel
- Complex

Maintenance

- Airframe & Powerplant (AP)
- Inspection Authorization (IA)
- Designated Mechanic Examiner (DME)

¹ Aeronautics is the Science that deals with flight through the air. This includes the study, design, and manufacturing of flight capable machines, and the techniques of operating aircraft and rockets in the atmosphere.

² Graduate studies included aircraft and spacecraft design, advanced aerodynamics, aircraft performance, aircraft certification, aviation safety and investigation, crashworthiness, flight testing, maintenance, Human Factors, meteorology, and other topics.

³ Engineering Physics is the study of the combined disciplines of engineering, physics, and math. Undergraduate studies included physics, chemistry, math, material science, strength of materials, engineering statics and dynamics, CAD Design, thermodynamics, fluid dynamics, electronics, and other topics.

⁴ Manufacturing Engineering Technology is a discipline of science that deals with different manufacturing practices and includes the research, design and development of systems, processes, machines, tools, and equipment.

⁵ Applied General Metallurgy is a comprehensive understanding of the properties of metals and alloys, as well as metal processes and techniques in manufacturing, including failure analysis and fracture analysis, and other topics.



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Professional Certification and Licenses

- **U.S. Department of Transportation (DOT) Certified Aviation Safety Investigator**, Certificate # 13
- **Illinois Licensed Private Detective**, License # 115002150

Military Training and Education

- **USAF Basic Military Training**, 1994
- **USAF Intelligence School: Collection, Analysis, and Dissemination of Classified Information**, 1994
- **USAF Special Operations School: Asian-Pacific: Cultural, Sociological, and Political Studies**, 1995
- **USAF Non-Commissioned Officer School: Leadership and Management Training**, 1997-2000
- **USAF Combat Survival School: Survival (Land and Water), Evasion, Resistance, and Escape**, 1998

Training Accident Investigation, Failure Analysis, & Safety

- **Accident Investigator (PERC) at Private Detective Agency**, Packer Engineering, 2000-2004
- **Vehicular Accident Reconstruction and Investigation Course**, Northwestern University, 2000
- **Aircraft Accident Investigation Course**, University of Southern California (USC), 2001
- **Principles of Failure Analysis Course**, Materials Engineering Institute (ASM International), 2003
- **Advanced Aircraft Accident Investigations Course**, Embry Riddle Aeronautical University, 2008
- **Mechanical Testing of Metals Course**, Materials Engineering Institute (ASM International), 2009
- **Reliability and 1309 Design Analysis for Aircraft Systems**, University of Kansas, 2013
- **Certificated Fire, Arson, and Explosion Investigation Training**, NAFI, 2015
- **Safety Management Systems Course**, Embry Riddle Aeronautical University, 2017
- **Safety Management Systems for Aviation Professionals**, Flight Safety International, 2017
- **Advanced Aircraft Accident Investigation Course**, U.S. Department of Transportation (DOT), Transportation Safety Institute, National Aircraft Accident Investigation School, 2019
- **Unmanned Aircraft System Accident Investigation Training**, U.S. Department of Transportation (DOT), Transportation Safety Institute, National Aircraft Accident Investigation School, 2019
- **Composite Aircraft Accident Investigation Training**, U.S. Department of Transportation (DOT), Transportation Safety Institute, National Aircraft Accident Investigation School, 2019
- **Human Factors in Accident Investigation Course**, U.S. Department of Transportation (DOT), Transportation Safety Institute, National Aircraft Accident Investigation School, 2019
- **Experimental Aircraft Accident Investigation Course**, U.S. Department of Transportation (DOT), Transportation Safety Institute, National Aircraft Accident Investigation School, 2019
- **Advanced Commercial Aircraft Accident Investigation Course**, U.S. Department of Transportation (DOT), Transportation Safety Institute, National Aircraft Accident Investigation School, 2019
- **Advanced Rotorcraft Accident Investigation Course**, U.S. Department of Transportation (DOT), Transportation Safety Institute, National Aircraft Accident Investigation School, 2021

Piloting

Flight Test Training

National Test Pilot School (NTPS), Mojave, CA:

- **Technical Pilot Course,⁶ 2017**
- **Upset Prevention and Recovery Training, 2017**
- **Flight Test Performance and Flying Qualities for ICAO Accident Investigations, 2018**
- **Co-Developed with NTPS a Test Pilot Training Course and Curriculum Specific for Aircraft Accident Investigators in accordance with ICAO Standards, 2017-2018**

Piloting

Professional Pilot Training

Embry Riddle Aeronautical University, Advanced Pilot Training Specialty Courses:

- **Jet Upset Training, 2017**
- **Fatigue Risk Management, 2017**
- **Contaminated Runway Operations, 2017**
- **CFIT- Controlled Flight into Terrain, 2017**
- **Weather and Meteorology, 2017**
- **Thunderstorm Avoidance, 2017**
- **Wind Shear Avoidance, 2017**
- **Cold Weather Winter Operations, 2017**
- **Hot Weather Operations, 2017**
- **4 Engine Performance, 2018**
- **FAA/EASA Approved Systems Ground School: Boeing B737-800 NG, 2018**

Federal Aviation Administration Civil Aerospace Medical Institute (CAMI) Training:

- **Specialized High-Altitude Physiological Education & Training, 2001**
- **Spatial Disorientation Simulator Training, 2001**
- **Post-Crash Survival & Cabin Evacuation Training, 2001**

Flight Safety International Flight Training:

- **Single Pilot Resource Management, and LOST in C208B, 2018**
- **Human Factors and CRM General Concepts for Pilots, 2018**
- **High Altitude Training, 2018**

⁶ Technical Test Pilot Training included aircraft certification, advanced aerodynamics and aircraft performance, aircraft stability and control, aircraft flying and handling qualities, stalls, spins, upset recovery, aeroelasticity and flutter, Pilot-Induced-Oscillation (PIO) theory, and other topics for both single and multi-engine aircraft.



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Other Specialized Flight Training:

- **PA-31 Navajo Simulator Training, Advanced Weather Avoidance, & Single Pilot IFR**, RTC, 2004
- **Precipitation and Icing Course**, AOPA Air Safety Foundation, 2009
- **Runway Safety Course**, AOPA Air Safety Foundation, 2010
- **GPS for IFR Operations Course**, AOPA Air Safety Foundation, 2011
- **Garmin G1000 Refresher Training**, Glass Simulator Center, 2013
- **PC-12 NG Simulator Training**, SIMCOM Aviation Training, 2013
- **Cessna CJ3+ Simulator Training**, PROFLIGHT Simulator Training, 2013
- **Agricultural Pilot Flight Training**, Eagles Vista, 2014
- **Piper PA-46 Pilot Flight Training**, RWR Pilot Training, 2014
- **Cirrus Factory Transition Training -SR-20**, 2015
- **Cirrus Factory Simulator Training -SR-22**, 2015
- **Boeing KC-135R Simulator Training**, USAF-ANG 128th Air Refueling Wing, 2015
- **Bush and Mountain Flying**, Bush Air-Safety Training, 2015
- **Managing Wildlife Strikes**, Bird Strikes Committee USA-Safety Training, 2015
- **Flight Instructor Renewal Course**, American Flyers 2001-2015
- **King Air 200 Simulator Training**, RTC Simulators, 2016
- **Western Michigan University-Cirrus SR20 Simulator**, 2016
- **Mountain Flying Course**, AOPA Air Safety Foundation, 2018
- **Teaching Helicopter Safety**, AOPA Air Safety Foundation, 2021
- **King Air Engine Out Training B200/B300**, SIMPRO Simulators, 2023

Piloting

Commercial Pilot Experience

2000 to Present

Accident/Technical Test Pilot- Performed Technical Test Flights in Support of Aircraft Accident Investigations. Evaluated Aircraft Performance, Aircraft Stability & Control, Aircraft Flying & Handling Qualities, Stalls, Spins, Upset Recovery, Loss-of Control, Cockpit Design and Visibility, System Malfunctions, and other topics in accordance with the ICAO Manual for Aircraft Accident Investigations.

1999 to Present

Flight Instructor- Performed Human Factors Based Flight Reviews. Evaluated Pilot Performance Utilizing Training Scenarios Based on Accident Data Involving Aviation Human Factors. Knowledgeable in areas of expertise to include aerodynamics, aircraft performance, stalls, spins, flight planning, piloting techniques, the Fundamental of Instructing (FOI), Human Factors, meteorology, the National Airspace System, risk management, Federal Aviation Regulations, collision avoidance, and other topics.



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Piloting

Aircraft & Simulators Flown

Aircraft:

Aviat: A-1A; **Auster:**-5J4; **Beechcraft:** A-36, F-33, BE-76, B58, BE-90, C24, V-35; **Bell:** 206; **Boeing:** PT-17; **Cessna:** 140, 150, A150, 152, 170, 170 (180HP), 172, 172RG, 175, 177, 180 Float, 182, 182RG, 185, 206, 310, 337, 414; **Cirrus Aircraft:** SR20, SR22; **Citabria:** 7GCBC; **Commander Aircraft:** 115; **Diamond Aircraft:** DA-20, DA-40, DA-42, HK36TC; **ERCO Ercoupe:** 415C; **Experimental:** LongEZ, Glasair III, RV-6A, Breezy; **Ford:** AT-4 Tri-Motor; **Grumman:** AA-5B; **Grobe:** Motorglider; **Lake:** LA-4; **Piper:** J-3, PA23-150, PA23-180, PA23-235, PA25, PA28-150, PA28-160, PA28-161, PA28-180, PA28-181, PA28-235, PA-30B, PA-31T1, PA32R-301, PA34-200T, PA38, PA46-350; **Mooney:** M20J; **North American:** T-6, T-28, Sabreliner 60A; **Pilatus:** PC-12; **Ryan Navion:** NAV-4; **Socata:** Rallye 100; **Stinson:** -108; **YAK:** -52W; **ZLIN:** Z-526F.

FAA and Military Approved Flight Simulators:

Boeing: B737, KC-135R; **Beechcraft:** B58, BE-90, BE-200, BE-300; **Cessna:** C208B, CE-560, CE-650, CJ3+, CE-500; **Cirrus SR20, SR22;** **Pilatus PC-9, PC-12NG;** **Piper PA-31;** **Saab 340D.**

Training

Aircraft Maintenance:

- **Textron-Lycoming Aircraft Engines, Factory Powerplant Education & Training, 2002**
- **Teledyne-Continental Aircraft Motors, Factory Powerplant Education & Training, 2002**
- **Advanced Composite Material Fabrication and Repair Training, Flight Safety International, 2002**
- **Williams International, Factory FJ44/33 Turbine Engine Education and Training, 2007**
- **Aging Aircraft Course, AOPA Air Safety Foundation, 2008**
- **Pratt & Whitney PT6A Series Familiarization Training, Flight Safety International, 2013**
- **Attended Factory Sponsored Seminars on FADEC Systems, Propellers, Governors, Alternators, Starters, Magnetos, Fuel Injection Systems, Brakes, Fuel Cells, & Vacuum Pumps, 1994-2017**
- **Auto Engine Conversions for Experimental Aircraft, EAA Maintenance Training, 2015**
- **FAA Inspection Authorization Renewal Training, Lewis University & DPA FSDO, 2001-2021**
- **FAA Designee Standardization Branch DME Initial and Renewal Training, FAA, 2015-2022**
- **Fueling Safety, Advanced Aircrew Academy, 2021**
- **Marshalling, Advanced Aircrew Academy, 2021**

Training

Spacecraft Systems- American Institute of Aeronautics and Astronautics

- **Fundamentals of Space Systems, 2021**
- **Materials and Structures for Hypersonic Vehicles, 2022**
- **Nuclear and Future Flight Propulsion: Advanced Concepts in Rocket Propulsion, Nuclear Systems, Advanced Physics, and Propellants, 2022**



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- **Overview of Missile Design and System Engineering, 2022**
- **Space Systems: Risk Analysis and Management, 2022**
- **Structural Considerations in Liquid Rocket Engine Design, 2022**

Training

Technical (Other)

- **Metal Castings Technologies Course**, Cast Metals Institute-American Foundry Society, 2003
- **Managing Complex Product Development Programs Course**, MIT, 2003
- **Vehicle Dynamics and Control**, Skip Barber Racing School, 2005
- **Lubrication and Tribology Testing Workshop**, STLE, 2006
- **Corrosion Detection, Prevention and Control Workshop**, NACE, 2009
- **Certified Lubricant Specialist**, Society of Tribology and Lubricant Engineers (STLE), 2012-2019

Employment

2018 to Present; President and Chief Scientist, DVI Forensic Laboratories, LLC., Bolingbrook, IL

Dr. Meyers is responsible for all facets of operating DVI Forensic Laboratories. The mission is to provide the best-in-class laboratory and scientific testing services for independent and unbiased failure analysis. DVI Forensic Laboratories provides mechanical, chemical, and metallurgical testing services, with specialized facilities for the teardown inspection and testing of aerospace components.

2006 to Present; President and Chief Scientist, DVI Aviation Inc., Bolingbrook, IL

Dr. Meyers is responsible for all facets of operating DVI Aviation, and over his 28+ career in the Aerospace and Defense industries, he has conducted several hundred failure analysis and aircraft accident investigations. His experiences include airframe and powerplant system design and interface issues, crashworthiness, flight and ground testing, human factor analysis of both flight and maintenance operations, and the evaluation of material wear and lubrication (tribology). These investigations have involved complex accident reconstructions, the development of unique/customized test procedures, and interdisciplinary expertise. He also developed and conducts *Human Factors* based flight reviews and ground school training. These in-depth instructional programs cover cockpit leadership techniques, error management, risk management, human factors, single pilot resource management, and expert based scenario training. Other aviation services include aircraft specific checkouts, flight department audits, safety seminars, and aircraft maintenance.



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2009 to Present; Adjunct Aviation Faculty Instructor, Lewis University, Romeoville, IL

Lewis University is an FAA approved Part 141 Flight Training provider and FAA approved Part 147 Aviation Maintenance Technician School (AMTS). Dr. Meyers developed and instructs courses in *Applied Aircraft Investigation Techniques, Aviation Human Factors-Flight, and Human Factors in Aviation Maintenance*. These advanced level courses cover: the investigation process, Pilot errors, maintenance errors, material science, failure analysis, crashworthiness, understanding the relationship of the person-machine-environment, and how to apply scientific methodologies. Additionally, Dr. Meyers serves as an FAA designated DME for Lewis University's AMTS training program.

2005 to 2012; Vice President, Institute of Tribology and Coatings (ITC & ITC Experts), Sugar Grove, IL

ITC is a Not-For-Profit research and development organization that advances the utilization of tribological and advanced materials to reduce friction, wear, corrosion, and failures of military equipment operating in Iraq and Afghanistan. Dr. Meyers evaluated the mechanical failures of equipment and components from a broad cross-section of the military ranging: from small arms, to large bore cannons, to helicopters, to vehicles, to missile systems, to tracked vehicles, to evaluating the failure of the coatings on the bottom of the NSF's ski equipped LC-130 cargo aircraft. He developed modified ASTM methods for measuring abrasive and adhesive wear, developed sensors for measuring frictional energy in weapon systems, evaluated the performance of lubricants under extreme conditions, and developed blast resistant composite materials. ITC Experts is a For-Profit failure analysis and multi-disciplinary accident investigation consulting firm.

2000-2005; Director of Aerospace, Packer Engineering Inc, Naperville, IL

Packer Engineering is a nationally recognized multi-disciplinary engineering firm, and maintained extensive chemical, metallurgical, and mechanical testing laboratories. Dr. Meyers consulted on many aspects pertaining to aircraft accident investigations, wreckage reconstruction, crashworthiness, and the failure of aircraft components, ground vehicles, and support equipment. Dr. Meyers was also the Program Manager of a research program funded by U.S. Special Operations Command (SOCOM) to evaluate the structural failures of Navy SEAL watercraft and to develop replacement composite structures. He was also the Co-Program Manager for a research program, funded by the Office of Naval Research (ONR) in partnership with Boeing, to develop methods for the intelligent processing of advanced composite structures.

1994-2001; Non-Commissioned Intelligence Officer, USAF-ANG, 126th Air Refueling Wing, Chicago, IL

Dr. Meyers's responsibilities included planning, organizing, and managing unit intelligence mobility capabilities for possible deployment. Knowledgeable about the principles, practices and procedures of operational intelligence activities involving the application of intelligence information in direct support of combat flying operations. Knowledgeable of the techniques and procedures for collecting, researching, evaluating, analyzing, exploiting, and disseminating all



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source intelligence information. Knowledgeable of the intelligence reference libraries, capabilities of enemy offensive and defensive weapons systems, including the geographical, political, psychological, and military aspects of United States, allied, and foreign countries. Participated in the Bosnian and Kosovo Peace Keeping Efforts.

1998-2000; Project Engineer, Flight Visions Inc, Sugar Grove, IL

Flight Visions designed and manufactured Heads-Up-Displays and weapon delivery systems for transport and fighter aircraft. Dr. Meyers contributed technical expertise to a wide variety of airframe applications, including Boeing-Aerovodochy (L-139/159), Lockheed-Martin (F-35 JSF, C-130AMP), Northrop Grumman (F-14B), Israeli Aircraft Industries (KFIR), and Pilatus (PC-9).

1999-2000; Flight Instructor, Lumanair, Sugar Grove, IL

Lumanair is a 40+ year old fixed based operator with flight training and charter services. Dr. Meyers provided primary and advanced flight instruction, flight reviews, and aircraft checkouts.

1998; Intern and Project Engineer, Frasca Flight Simulators International, Champaign-Urbana, IL

Frasca manufactures flight training equipment for airlines, flight schools and military organizations worldwide. Dr. Meyers contributed technical expertise to both civilian and military applications.

1993-1997; Apprentice Aircraft Mechanic / Lineman, A&M Aviation, Bolingbrook, IL

Performed routine maintenance, repairs, alterations on general aviation and business aircraft, and was responsible for refueling and positioning of aircraft and other ramp operations.

Leadership

Board, Officer, and Committee Experience

2023 to Present	External Committee Member for Doctoral Dissertation (Aeronautical) Review, Capitol Technology University
2018 to Present	Founder and Chairman of the Board, DVI Forensic Laboratories, LLC.
2006 to Present	Founder and Chairman of the Board, DVI Aviation. Inc.
2013 to 2016	Laboratory Technician Subject Matter Expert on the DACUM Advisory Board for Laboratory Curriculum Development at Waubonsee Community College
2011 to 2012	Aircraft Accident Investigator Subject Matter Expert on the FAA General Aviation Joint Steering Committee, Loss of Control Working Group
2011	Technical R&D Proposal Reviewer, U.S. Army, Joint Services Small Arms Program Office, Materials Processing Committee
2006 to 2012	Board of Director, Illinois Aviation Museum
2008 to 2009	Waubonsee Community College Manufacturing-Industrial Advisory Board

Papers:

1. Meyers, S.J. (December 2021), *"Aerodynamic Improvements That Increase Crashworthiness and Survivability of Off-Field Landings for Single Engine General Aviation Aircraft,"* Doctoral Dissertation Submitted to Capitol Technology University in Partial Fulfillment of the Requirement of the Degree of Doctor of Philosophy in Aeronautical Science.
2. Fildes, J.M., Kilparti, R., Meyers, S.J., Mulligan, C. (September 2012). *"Evaluation of the Wear and Abrasion Resistance of Hard Coatings by BOTD Test Methods – A Case Study."* Elsevier Wear Journal, manuscript number: WEA100377.
3. Fildes, J.M., Kilparti, R., Meyers, S.J., & Schelp, E. (November 2011). *"Improved Ball Crater Micro-Abrasion Test Based on a Ball on Three Disk Configuration"*. Elsevier Wear Journal, manuscript number: IH-6210. Wear 274– 275 (2012) 414– 422.
4. Fildes, J.M., Kilparti, R., Meyers, S.J., & Schelp, E. (2010). *"Quantifying Abrasive and Adhesive Wear of Coatings with a Ball on Three Disk Configuration."* Technical Report Supplied to U.S. Army Joint Munitions & Lethality LCMC ACQ Center, ARDEC, by the Institute of Tribology and Coatings.
5. Fildes, J.M., Kilparti, R., Meyers, S.J., & Schelp, E. (2010). *"Micro-Abrasion Test Instrumentation Based on a Ball on Three Disk Configuration"*. Technical Report Supplied to U.S. Army Joint Munitions & Lethality LCMC ACQ Center, ARDEC, by the Institute of Tribology and Coatings.
6. Fildes, J.M., Kilparti, R., Meyers, S.J., & Schelp, E. (2010). *"Bench-Scale Abrasive Wear, Adhesive Wear, and Coefficient of Friction Test Performance of Advanced Hard Coatings for Weapons Systems"*. Technical Report Supplied to U.S. Army Joint Munitions & Lethality LCMC ACQ Center, ARDEC, by the Institute of Tribology and Coatings.
7. Fildes, J.M. & Meyers, S.J. (February 2010). *"Collaborative Support for Weapons Tribology and Coatings"*. Final Report Supplied to U.S. Army Joint Munitions & Lethality LCMC ACQ Center, ARDEC, by the Institute of Tribology and Coatings.
8. Meyers, S.J. (October 2009). *"A Study of Flight Reviews Conducted in Technologically Advanced Aircraft"*. A Graduate Capstone Project Submitted to Embry Riddle Aeronautical University in Partial Fulfillment of the Requirement of the Degree of Master of Aeronautical Science.
9. Curry, D.G. Knutson D.F., & Meyers, S.J. (June 2009). *Are Technologically Advanced Aircraft Safer?* Binder, Aviation Insurance Association's Semi-annual Publication, June 2009, Volume 33, Number1.
10. Curry, D.G. Knutson D.F., & Meyers, S.J. (April 2009). *"Is Safer Really Safer: Pilot Error and Technologically Advanced Aircraft"*. Mentor, National Association of Flight Instructors, April 2009, Volume 11, Number 4



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11. Meyers, S.J. (2008). *"High Technology Education to Work Opportunity Grant"*. Final Report Supplied to Illinois Department of Community and Economic Opportunity by Institute of Tribology and Coatings.
12. Fildes, J.M. & Meyers, S.J. (2008). *"Collaborative Support for Weapons Tribology and Coatings."* Final Report Supplied to U.S. Army Joint Munitions & Lethality LCMC ACQ Center, ARDEC, by the Institute of Tribology and Coatings.
13. Knutson, D.F., Meyers, S.J., & Yock, D. (2007). *"Safety Comparison Between an Internal and External Flight Departments."* Final Report Supplied to a Fortune 100 Corporation, by DVI Aviation Inc.
14. Meyers, S.J. (2007). *"High Technology Education to Work Opportunity Grant"*. Final Report Supplied to Illinois Department of Community and Economic Opportunity, by Institute of Tribology and Coatings.
15. Meyers, S.J. (2006). *"Investigation of Nano-particles within Cutting Fluids"*. Final Report Supplied to U.S. Army National Automotive Center, TARDEC, by the Institute of Tribology and Coatings.
16. Meyers, S.J. (2006). *"Mid-East Military Wear Survey"*. Final Report Supplied to U.S. Army National Automotive Center, TARDEC, by the Institute of Tribology and Coatings.
17. Meyers, S.J. (2006). *"Investigation and Development of Metrology Equipment for Measuring Wear in the Contact Zone"*. Final Report Supplied to U.S. Army National Automotive Center, TARDEC, by the Institute of Tribology and Coatings.
18. Meyers, S.J. (2001). *"Feasibility Study of Stuff-Proof Composite Materials for the MKV Ship"*. Final Report Supplied to United States Special Operations Command.
19. Meyers, S.J. (1999). *"Acceptance Test Procedures USN F-14B HUD"*. Technical Manual Supplied to Northrop-Grumman by Flight Visions Inc.
20. Meyers, S.J. (1999). *"Functional Qualification Tests Pilatus PC-9 HUD"*. Technical Manual Supplied to Pilatus Aircraft Inc. by Flight Visions Inc.
21. Meyers, S.J. (1999). *"HUD Assembly Line Procedures Boeing L-159"*. Technical Manual Supplied to Boeing and Aero Vodochy by Flight Visions Inc.
22. Meyers, S.J. (1999). *"HUD Maintenance Procedures Boeing L-159"*. Technical Manual Supplied to Boeing and Aero Vodochy by Flight Visions Inc.
23. Meyers, S.J. (1997). *"Electronic Control Loading of Flight Controls on the PC-9 Simulator"*. Technical Manual Supplied to Pilatus Aircraft by Frasca Flight Simulators International.



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External Committee Member (Subject Matter Expert) for Doctoral Dissertation Defense

1. Hedges, D.E. II (September 2023). *"Comparison of Lighting Manipulations for Measuring Distance Required to Identify a Closed Runway."* Doctoral Dissertation Submitted to Capitol Technology University in Partial Fulfillment of the Requirement of the Degree of Doctor of Philosophy in Aeronautical Science.

Presentations and Workshops:

1. Meyers, S.J. (June 2022). *"General Aviation Human Factors Flight Reviews."* Presented for JWA Aviation, Bolingbrook, IL.
2. Meyers, S.J. (December 2019). *"Lessons Learned from Aircraft Accidents."* Presented for the Experimental Aircraft Association at the Illinois Aviation Museum, Bolingbrook, IL.
3. Meyers, S.J. (July 2012). *"An Introduction to Pilot Command Training for General Aviation Pilots."* Chicagoland Aviation, Lewis Lockport Airport, Romeoville, IL.
4. Meyers, S.J. (June 23, 2010). *"A Case Study of Identifying Coatings to Improve the Performance of Weapons in Abrasive Environments."* Presented at the National Small Arms Center Consortium Meeting, Battelle Institute, Columbus, OH.
5. Meyers, S.J. (April 22, 2010). *"Human Factors: The Insidious Threat"*. Presented at the FAA Wings Safety Program at the Illinois Aviation Museum, Bolingbrook, IL.
6. Fildes, J.M. & Meyers, S.J. (December 2009). *"Failure Analysis and Solutions for Abrasion Related Jamming of Weapons"*. Presented to the Annual Meeting of the National Small Arms Center, Maryland.
7. Meyers, S.J. (July 28, 2009). *"Human Factors in Private Flying"*. Presented at the Civil Air Patrol Quarterly Safety Briefing, Clow International Airport, Bolingbrook, IL.
8. Meyers, S.J. (February 13, 2009). *"Evaluating Airmen on Form 5 Check Rides"*. Presented at the National Check Pilot School, Civil Air Patrol, and West Chicago, IL.
9. Fildes, J.M. & Meyers, S.J. (December 3, 2008). *"The Effectiveness of Bench-Scale Testing of Small Arms"*. Presented at the Annual Meeting of National Small Arms Center, Columbia, South Carolina.
10. Meyers, S.J. (February 28, 2008). *"How to be a Pilot"*. Presented at the FAA Wings Safety program at the Illinois Aviation Museum, Bolingbrook, IL.
11. Meyers, S.J. (February 8, 2007). *"Returning to Aviation- How to Pass a Flight Review"*. Presented at the FAA Wings Safety program at the Illinois Aviation Museum, Bolingbrook, IL



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12. Meyers, S.J. (January 18, 2007). *"Investigating Aircraft Accidents"*. Presented at Sun City Flyers, Huntley, IL.
13. Meyers, S.J. (October 27, 2006). *"Role of Science in Education"*. Presented at Bolingbrook Educational Consortium, Bolingbrook, IL.
14. Meyers, S.J. (May 4, 2006). *"How to Get Back Into Flying"*. Presented at the FAA Wings Safety program at the Illinois Aviation Museum, Bolingbrook, IL.
15. Meyers, S.J. (November 17, 2005). *"Air Safety Investigation"*. Presented at the FAA Wings Safety program at the Illinois Aviation Museum, Bolingbrook, IL.
16. Meyers, S.J. (October 13, 2005). *"Winter Flying Hazards"*. Presented at the FAA Wings Safety program at the Illinois Aviation Museum, Bolingbrook, IL.
17. Meyers, S.J. (July 15, 2005). *"Maintenance and Repair of Aging Aircraft"*. Presented at the FAA Wings Safety program at the Illinois Aviation Museum, Bolingbrook, IL.
18. Meyers, S.J. (March 17, 2005). *"Aerodynamics of General Aviation Aircraft"*. Presented at the FAA Wings Safety program at the Illinois Aviation Museum, Bolingbrook, IL.
19. Fildes, J.M. & Meyers, S.J. (March 12, 2005). *"Composites as Engineered Materials"*, Presented at Lewis University- FAA IA Renewal Workshop, Romeoville, IL.
20. Meyers, S.J. (February 23, 2005). *"Composites in Aviation"*. Presented at Milwaukee Society of Automotive Engineers (SAE) Meeting, Milwaukee, WI.
21. Meyers, S.J. (November 27, 2004). *"Air Safety- Learning from Accidents"*, Presented at FAA Wings Safety Program, Bolingbrook, IL.
22. Fildes, J.M. & Meyers, S.J. (November 19, 2004). *"Composite Airframe Structures"*. Presented at Chicago Area Business Aviation Association Quarterly Meeting, Oakbrook, IL.
23. Meyers, S.J. & Nowicki, J.W. (October 2, 2004). *"Maintenance of Ultra-light and Sportcraft Aircraft"*. Presented at Fox Valley Ultra-Light Club FAA Wings Safety Program, Bolingbrook, IL.
24. Dorr, J., Fildes, J.M., & Meyers, S.J. (September 30, 2004). *"Design, Fabrication, and Inspection of Composites"*, Presented at Organization of Flying Adjusters Annual Meeting, Key Largo, FL.
25. Meyers, S.J. & Nowicki, J.W. (February 18, 2004). *"Building/ Flying a 1903 Wright Flyer"*. Presented at American Society of Mechanical Engineers (ASME) Quarterly Meeting, Chicago, IL.
26. Meyers, S.J. & Nowicki, J.W. (December 9, 2003). *"Operating Antique Aircraft Engines"*. Presented at Society of Automotive Engineers (SAE) Quarterly Meeting, Milwaukee, WI.



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27. Meyers, S.J. & Nowicki, J.W. (February 3, 2003). *"The Science of the 1903 Wright Flyer Engine"*. Presented at Technical Managers Association of Chicago (TMAC) Monthly Meeting, Lisle, IL.
28. Meyers, S.J. (February 15, 2002). *"Investigating GA Accidents"*. Presented at Experimental Aircraft Association (EAA) Chapter 464 Monthly Meeting, Bolingbrook, IL.
29. Meyers, S.J. (August 15, 2002). *"Anatomy of Aircraft Accident Investigations"*. Presented at EAA Chapter 101 Monthly Meeting, Schaumburg, IL.

Affiliations

Professional Memberships and Honors

- American Institute of Aeronautics and Astronautics
- ASM International
- ASTM International
 - *Voting Member on ASTM F44 Technical Committee for General Aviation Aircraft*
 - *Voting Member ASTM Loss of Control (aircraft) Task Group-WK 41075*
 - *Voting Member on ASTM D02 Technical Committee for Petroleum Products and Lubricants*
 - *Voting Member on ASTM G02 Technical Committee for Wear and Erosion*
- Society of Tribology and Lubricant Engineers (STLE)
- FAA Aviation Safety Counselor, 2002-2006
- National Association of Fire Investigators, Member Certificate # 17309
- Aircraft and Owners and Pilot Association
- Experimental Aircraft Association
 - *EAA Designated Technical Counselor*
- National Association of Flight Instructors
- Seaplane Pilots Association
- American Bonanza Society
- Civil Air Patrol, USAF Auxiliary, 1991-2015
 - *Recipient of General Carl A. Spaatz Award (#1335)*
 - *Flight Instructor and Standards and Evaluation Check Airman*
- Sigma Pi Sigma- National Physics Honor Society

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