



DAVID G. KLEPACKI
SENIOR CONSULTANT

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Mr. Klepacki is a Senior Consultant specializing in accident investigation and reconstruction for Engineering Systems Inc. (ESi). He has over 40 years of experience and is a recognized expert in the aviation accident investigation industry. Prior to joining ESi, Mr. Klepacki was Section Leader of Aviation Technologies at Packer Engineering Associates, Inc., where he was involved in the same types of projects as with ESi. He was a Senior Design and Liaison Engineer for Cessna Aircraft Company designing airfoil and airframe components, as well as aircraft hydraulic and mechanical systems. Mr. Klepacki served as an engineering technical advisor to the Air Safety Investigators, Product Integrity Council, and Cessna's FAA engineering representative Executive Engineer. He has worked as a mechanic at two Fixed Based Operations (FBO's) and has modified, rebuilt, and restored aircraft and gliders. Mr. Klepacki provides consultation for projects in a variety of disciplines at ESi.

Areas of Specialization

Accident Investigation and Reconstruction
Airframe, Powerplant (Reciprocating and Turbine) and Accessories
Maintenance Operations, Design Evaluation, Instrumentation and Testing
Physical Modeling, Mock-Ups, Graphics, Video Production, and Animations
Designing and Building of Prototype Simulators

Education

B.S., Aeronautical Engineering Technology, Arizona State University, 1977

Licenses

License No. 2219883 Airframe & Powerplant Mechanic, February 1987
Inspection Authorization, March 2003

License No. 2219883 Private Pilot, March 1973, Single Engine Land
Instrument Rated, May 1977

January 2020

Professional Affiliations/Honors

The Engineering Society for Advancing Mobility Land, Sea, Air, and Space (SAE)

Aircraft Owners and Pilots Association (AOPA)

Experimental Aircraft Association (EAA)

International Society of Air Safety Investigators

Previously involved with and Past President, Great Lakes Chapter 1994

Positions Held

Engineering Systems Inc., Colorado Springs, Colorado

Senior Consultant, 2007 - Present

Consultant, 1995 – 2007

Engineering Systems Inc., Aurora, Illinois

Consultant, 1987 – 1995

Packer Engineering Associates, Inc., Naperville, Illinois

Aircraft Accident Investigation, Reconstruction and Technical Support, Section
Leader Aviation Technologies, 1982 - 1987

Cessna Aircraft Company, Wichita, Kansas

Airframe and Mechanical System Design Engineer and Liaison Engineer on the Model
100 and 200 Series Aircraft, Engineering and Manufacturing Coordination for the Model
172RG, and Engineering Representative to the Executive Engineer, 1978 - 1982

Cavalier Aircraft, Midway Airport, Chicago, Illinois

A & P Maintenance, 1976 - 1976

R & D Aviation, Lockport Airport, Lockport, Illinois

A & P Maintenance, 1974 - 1975

Continued Education

FlightSafety International, Cessna 208 Series Maintenance Initial, March 2017

Teledyne Continental Motors (TCM) Aviation Technician Advance Factory Training Program
Mobile, Alabama, January 2011

Cirrus University, SR-series AvMx Course
Duluth, Minnesota, March 2007

Lycoming Piston Engine Service School, Pennsylvania College of Technology
Moutoursville, Pennsylvania, February 2006

Transportation Safety Institute, Aircraft Accident Investigation Course
U.S. Department of Transportation, Oklahoma City, Oklahoma, May 1993

Powerplant Mechanic Courses
Lewis University, Romeoville, Illinois, 1983-1987

Humans Factors Course, University of Southern California
Institute of Safety and Systems Management, August 1981

Value Analysis, Value Engineering Seminar
Cessna Aircraft Company, Wichita, Kansas, November 1978

Airframe & Powerplant Courses
Parks College, Cahokia, Illinois, 1973

Publications

J.L. McDougall, **D.G. Klepacki**, M.E. Stevenson, and M.T. Kenner, "Post-Fire Structural Integrity Evaluation of an Aircraft Utilizing ASTM E 1004," ASM Journal of Failure Analysis and Prevention, Vol.15, Issue 1, February 2015

M.E. Stevenson, **D.G. Klepacki**, J.L. McDougall, and D.E. Alexander, "Failure Investigation of an Aircraft Crankshaft Gear Connection," ASM Journal of Failure Analysis and Prevention, Vol. 12, Issue 6, December 2012

Klepacki, D.G., Morin, C.R., Schaeffer, R.E., "Investigative Techniques for Evaluating Post-Accident Trim, System Configurations," Accepted for publication ISASI Forum, July-September 1998

Presentations

Klepacki, D.G., "Helicopter Airframe & Engine Maintenance Related Accidents," presented at Aviall Maintenance Super Seminar, Reno, NV, March 2011

Klepacki, D.G., "Inspection and Documentation of Post Accident Flight Controls and Secondary Trim Systems," presented to the General Aviation Air Safety Investigators (GAASI) Wichita, KS, September 2010

Klepacki, D.G., and Slane, J.H., "Animation – Cartoon vs. Engineering Simulation and the Laws of Physics," Embry Riddle Aeronautical University Annual Aviation Law and Insurance Symposium Orlando, FL, January 2008

Klepacki, D.G., "Photogrammetry & Stereo Photography," presented to General Aviation Air Safety Investigators (GAASI), Wichita, KS, October 2001

Klepacki, D.G., "Managing Personal Liability Risks in Aviation Maintenance," panel discussion presented to the Professional Aviation Maintenance Association (PAMA), Long Beach, CA, May 2001

Klepacki, D.G., "Civilian Accident Investigation and Reconstruction, Hands-On Failure Analysis Lab, and Field Investigation Lab," Invited to lecture at USAF Academy course, Aircraft Mishap Investigation, October 1999

Klepacki, D.G., "Checklist for Mid-Air Accident Investigation," Presented to the General Aviation Air Safety Investigators (GAASI), Wichita, KS, September 1999

Klepacki, D.G., Morin, C.R., Schaeffer, R.E., "Investigative Techniques for Evaluating Post-Accident Trim System Configurations," Presented to the General Aviation Safety Investigators (GASI), Wichita, KS, October 1997

Klepacki, D.G., Morin, C.R., Schaeffer, R.E., "Investigative Techniques for Evaluating Post-Accident Trim System Configurations," Presented to the International Society of Air Safety Investigators (ISASI), Anchorage, Alaska, October 1997

Klepacki, D.G., Morin, C.R., Shipley, R.J., "Fractography of Alloy Steel Bolts Subjected to Bending Overload, Cyclic Overload, and Low Cycle Fatigue," Presented to the ASM International Materials Week, Pittsburgh, PA, October 1993