SETP/SFTE - Flight Test Safety Committee

Mission:
To initiate and sustain a flight test related safety organization to promote flight safety, reduce the risk of mishap, promote risk reduction management and continually improve the profession's communication and coordination.


www.flighttestsafety.org
The FTSC stated Safety and Risk Management GOALS

• To foster an interchange of information related to "flight test lessons learned", in order to reduce potential mishaps.

• To promote an atmosphere of sharing "lessons learned" and "best practices" for risk reduction management.

• To direct the effort of flight test safety through education.

• Increase the effectiveness and scope of risk management processes.

• Empower individuals to act on or elevate safety concerns through cultural change.

• Establish policy and an environment that induces wanted self-generated safety and risk management behavior.

• Establish programs that provide incentives for individuals that demonstrate safety and risk management principles.

• To develop a career model for Flight Test Safety Professionals.
Flight Test Safety Committee

Promoting Flight Safety

Flight Test Safety Committee

The Flight Test Safety Committee (FTSC) was formed jointly in November 1984 by members of the Society of Experimental Test Pilots (SETP), the Society of Flight Test Engineers (SFTE), and the American Institute of Aeronautics and Astronautics (AIAA). These and numerous additional organizations presently comprise the FTSC, and are listed on the Members Page. The purpose of the FTSC is to initiate and sustain a flight test-related safety organization intended to promote flight safety, reduce the risk of mishap, promote risk reduction management, and continually improve the profession’s communication and coordination.

2013 European Flight Test Safety Workshop

European Flight Test Safety Workshop
29-30 October 2013
Amsterdam

More information will be provided as it becomes available

2013 Flight Test Safety Workshop

FLIGHT TEST SAFETY WORKSHOP
23 – 25 April 2013
DoubleTree by Hilton Hotel

Upcoming Events
Board of Directors

- Moe Girard, Chairman, SETP (F), Bombardier Aerospace
- Pete Donath, SFTE, Boeing
- Ralph Mohr, SFTE, Boeing
- Bart Henwood, SETP, NASA
- John Hed, SFTE, FAA
- Tom Archer, SETP, Bell Helicopter
- Rod Huete, SETP, President
  Flight Test & Safety Consultants, LLC
- Jim Richmond, SETP, FAA
- Jerry Whites, SETP, Boeing
- Eric Mitchell, SETP, Northrop Grumman
- Tom Huff, SETP, Gulfstream
- Paula Smith, Executive Director
Welcome

For years the international Flight Test community has had a need for easy access to flight test maneuver descriptions, test hazards and hazard mitigation techniques.

This database is a step in that direction and builds on similar efforts by the Flight Test Safety Committee, The Society of Experimental Test Pilots, The Society of Flight Test Engineers and other professional organizations. Our object is to identify and document hazards and mitigations associated with flight testing and provide a compilation of the flight test industry’s corporate knowledge regarding flight test safety risk assessment. Where applicable, the database cross-references FAR guidance from Parts 23, 25 and other flight-test related sections. It also discusses typical industry risk levels assigned to specific types of tests. All data has been reviewed by at least 2 persons with extensive Flight Test and/or Aviation Safety Experience. We hope you find this tool useful, and solicit your feedback and contributions as we work to keep it up-to-date.

Data Items were last added or updated on 9/13/2010
Previous Workshops

• 2004 - Pensacola, FL
• 2005 - Seattle, WA
• 2006 - Atlantic City, NJ
• 2007 - San Diego, CA
• 2007 - London, UK  “Managing Risk for Flight Test”
• 2008 - Melbourne, FL “Back to Basics”
• 2008 - Amsterdam, The Netherlands “Defining the Edge”
• 2009 - Ottawa, CA “The Human-Machine Interface and its Relationship to Understanding and Managing Human Error”
• 2009 - Vienna, Austria “First Flight”
• 2010 - San Jose, CA “Configuration Management and Control - Know what you are testing”
Previous Workshops

- 2010 - London, UK
- 2011 - Pensacola, FL
- 2011 - Salzburg, Austria
- 2012 - Seattle, WA
- 2012 - Salzburg, Austria

- "Last Flights"
- "Demonstrating Prototype Aircraft - Risk and Preparation"
- "I Learned About Flight Test From..."
- "Loss of Control - In-flight"
Flight Test Safety Tutorials Presented

2006: Threat and Error Management for Flight Test: Captain Don Gunther, Continental Airlines

2007: Global War on Error for Flight Test: Pat Daily and Rogers Smith, Convergent Knowledge

2008: Fatigue and the Test Team: Dr. Mark Rosekind, Alertness-Solutions

2008: A Field Guide to Understanding Human Behavior: Prof. Dr Sidney Decker, Professor of Human Factors and Flight Safety, and Director of Research at Lund University, School of Aviation, Sweden.

2009: The Human-Machine Interface and it relationship to Understanding and Managing Human Error: Kathy H. Abbott, PhD, FAA; Robert Sumwalt, Board Member NTSB; Scott Shappell, PhD, Wiegmann, Shappell & Associates, LLC
Flight Test Safety Tutorials Presented

- **2009**: **Spatial Disorientation - Threat and Overcomings**: Dr. Eric Groen and Dr Willem Bles, TNO, The Netherlands; Dr. Mayrhofer and Dipl.-Ing. Huhne AMST; Capt. Dave Carbaugh, Boeing

- **2010**: **Safety Management Systems**: Capt. Miguel Ramos, ICAO; Charles Huber, FAA; Jim Richmond, FAA

- **2011**: **Global War on Error**: Pat Daily, Convergent Performance

- **2012**: **Brain Rules**: Dr. John Medina, Professor of Bioengineering, University of Washington School of Medicine

- **2013**: **Aviation Physiology and the Human Factors Element**: Rogers Shaw, Civil Aerospace Medical Institute
Awards Program

Tony LeVier Flight Test Safety Award

- Established by the FTSC in 1999 in memory of Tony LeVier.
- Sponsored by GENTEX
- Recognizes an individual or individuals who have made a significant contribution to the flight test safety community over a period of time. Exception is a singular event that saves human life, aircraft or program where no safety rules were violated.
Tony Levier
Flight Test Safety Award
Winners

- 1999 - Eric E. Fiore (M), Bombardier Aerospace
- 2000 - Rodrigo J. Huete (AF), FAA
- 2001 - David Houle, Former President of SFTE
- 2002 - Bruce A. Peterson (F)
- 2003 - Auto ACAS Team
- 2004 - LCDR William Patton, Aviation Safety Officer and Program Manager
  and Mr. Thomas Roberts, Research, Development, Test, and Evaluation
  Safety Manager, Navel Test Wing Atlantic (NTWL) Safety Office
- 2005 - Ralph Mohr, Boeing
- 2006 - Terry Smith, BAE (RET)
- 2007 - John E. Cashman, Boeing
- 2008 - Flight Test Safety Data Base Team (FTSDB) - Barton Henwood, NASA
  Dryden Flight Research Center; Rodrigo Huete, FAA New York Aircraft
  Certification Office; John Hed FAA, Seattle Aircraft Certification Office;
  and Greg Lewis, National Test Pilot School
- 2009 - Jerry “Mac” McCawley, Sikorsky
- 2010 - Dave Downey, Bell
- 2011 - Tom Roberts, Naval Test Wing Atlantic
- 2012 - Eugene Arnold, John Hed (FAA), Mike Carriker, Randy Neville and Jennifer-Ellen Gessler (Boeing)
Established, October 2007, by Heidi Biermeier, with support from Tore Reimers, Al Lawless and Chris Worning. In memory of Gérard Guillaumaud.

The award serves as a motivation and recognition of an accomplishment in the interest of flight test safety. The accomplishment may either be an exceptional act which contributed to avoiding a test accident, or a presentation within the framework of the European Flight Test Safety Workshop which contributed most to improving flight test safety.
European Flight Test Safety Award
Winners

• **2007 Dr. Dieter Reisinger**, MSc, Director Quality Operations, AUSTRIAN AIRLINES

• **2008 Mr. Gerard Temme**, Joint Aviation Authorities (JAA)/The Transport and Water Management Inspectorate (IVW), The Netherlands

• **2009 Mr. Pat Svatek**, Naval Air Systems Command

• **2010 Mr. Billie Flynn**, Experimental Test Pilot, Lockheed Martin Aeronautics Company and **Mr. Mark Skoog**, Program Manager, NASA Dryden

• **2011 Maj Gen Desmond E. Barker**, SAAF

• **2012 Dave Carbaugh**, Chief Test Pilot, Boeing
Established, May 2010, Flight Test Safety Committee and Bombardier.

- For best presentation at the North American Flight Test Safety Workshop that fits the theme of the workshop.


  - **2011 winner**: “A Discussion of the Last Flight of X-31A Aircraft # 1” presented by Pat Stoliker, NASA DFRC

  - **2012 winner**: “Envelope Expansion Dives: Refining Build-up Techniques” presented by Aaron Tobias and Moe Girard, Cessna Aircraft Company
Gulfstream 650 Accident
NTSB Recommendations

• To the Flight Test Safety Committee:

• In collaboration with the Federal Aviation Administration, develop and issue flight test operating guidance for manufacturers that addresses the deficiencies documented in this report regarding flight test operating policies and procedures and their implementation, and encourage manufacturers to conduct flight test operations in accordance with the guidance.

• In collaboration with the Federal Aviation Administration, develop and issue flight test safety program guidelines based on best practices in aviation safety management, and encourage manufacturers to incorporate these guidelines into their flight test safety programs.

• Encourage members to provide notice of and coordinate high-risk flight tests with airport operations and aircraft rescue and firefighting personnel.
Future Events

April 23-25, 2013, New Orleans, LA
**Workshop Chairman:** Jim Richmond
“Flight Test: A History Full of Firsts”

Oct 28-30, 2013, Amsterdam, The Netherlands
**Workshop Chairman:** Arun Karwal, NLR

May 2014, Savannah, GA
**Workshop Chairman:** Tom Huff

Oct 2014, Bordeaux, France?

May 2015, Wichita, KS?