



**General Aviation Flight Data Monitoring Conference**  
**All Plenary Sessions in COA Room 139**

**Monday August 17, 2009**

1800 – 2000 No-Host Reception

Hilton Garden Winston’s Lounge

**Tuesday August 18, 2009**

0715 – 0800 Hot Breakfast & Registration

ERAU College of Aviation (COA)  
COA Atrium

0800 – 0810 Welcome

Dr. Tim Brady & Dr. Steven Hampton

Dean, Embry-Riddle Aeronautical University College of Aviation

Associate Dean, Research, Embry-Riddle Aeronautical University College of Aviation

0810 – 0820 FDM Conference Overview

Dr. David Esser/Peter Morton

0820 – 0835 Keynote: “Why GA Flight Data Monitoring, Why Now?”

Jay Pardee,

FAA Director, Office of Aviation Safety Analytical Services

0835 – 1030 Panel 1: FDM, Avionics, OEMs, Equipment & Hardware,  
FDM Software, Certification & STC Challenges

Manufacturers

1030 – 1100 Break

COA Atrium

1100 – 1200 Panel 2: GA Rotary & Fixed Wing FDM Processes

FDM Process Experts

1200 – 1320 Lunch

COA Atrium

Speaker: Jens Hennig, VP Operations GAMA, Topic: GAMA Policy Review on FDM

1320 – 1400 Panel 2 (Continued)

FDM Process Experts

1400 – 1515 Panel 3: FDM in GA & Rotary Wing, Experience & Intention

SATSAir, Rotary Wing, Others

1515 – 1530 Break

COA Atrium

1530 – 1600 Virtual FDM Project at UND

Prof Jim Higgins

1600 – 1700 FDM Research Project, Task Breakdown

Dr. David Esser

FDM Research Project Participants identified

1700 Optional High Altitude Lab Demonstration (limited-space)

1800 Halifax River Yacht Club – No host dinner and reception

**Wednesday August 19, 2009**

0730 – 0800 Hot Breakfast

COA Atrium

0800 – 1000 Convene FDM Research & Demonstration Participants Meeting Profs David Esser & Jim Higgins

- 1) Develop Schedule & Cost Structure
- 2) Design FDM Research Process Participation
- 3) Task Three, Four & Five Details, Participants
- 4) Commitment, Funding Strategy, Etc

1000 – 1030 Break

COA Atrium

1030 – 1145 Capture action items and next steps

Peter Morton

1145 – 1200 Closing & Adjourn

Dr. Tim Brady, Profs David Esser & Jim Higgins, Capt. Scott Meacham

1200 – 1300 Lunch

COA Atrium





## General Aviation Flight Data Monitoring Conference Panel Charge

### Keynote Speakers: "Why General Aviation Flight Data Monitoring, Why Now?"

Jay Pardee, FAA Director, Office of Aviation Safety Analytical Services

**Panel 1 Equipment, Software & Hardware, Panel Charge:** What has happened since January 2007 in FDM hardware, software, and in data extraction methods and potential from fixed & rotary wing airframes and avionics. What are the hardware certification processes, what STCs are in existence, and what are the prospects for expanding STC coverage for fixed and rotary wing aircraft? What progress has been made in data download for analysis? What are OEM positions on acquisition of STCs and/or installing the equipment during new airplane production or offering as an option? What are the avionics manufacturers' positions on making avionics data streams available to FDM equipment? **Panelists:**

- OEMs:
  - Cessna, Seth Buttner, Air Safety Investigator, Spec
  - Cirrus, Brad Kutz, Advanced Development Avionics Engineer
- Avionics Manufacturers:
  - Avidyne, Mike Ingram, Sr. Director of Engineering
  - L3, Tom Schmutz VP Engineering
  - Sagem Han Wu Mgr Latin America FDM
- Data acquisition manufacturers:
  - Alaka'i: Brian Morrison, President;
  - Appareo: Ben Wright, VP Sales & Marketing
  - Aerobytes: Bob Whetsell, Sales Manager
- GAMA Working Group Report: Jens Hennig, VP Operations GAMA
- Joe Syslo Sr. Manager, Aviation Safety at American Eurocopter/JHSAT Member

**Panel 2 FDM Processes, Panel Charge:** Relate GA fixed and rotary wing FDM situation with Part 121 experience. Describe current ASIAs capabilities and results for FY 08; system and process suitability to accept and process GA data. Identify and discuss relevant characteristics of GA categories and potential differences/discriminators for FDM application, such as in: rotary wing emergency, rotary wing corporate; fixed wing air taxi, charter, collegiate training, FBO & FBO rental, fractional ownership, virtual fleets of owner flown aircraft, etc. Identify and discuss implications of Part 121 type data management processes such as FOQA, ASAP, FERPA for collegiate applications. Discuss issues in data de-identification and sharing, voluntary disclosure, legal, liability, subpoena, etc. Provide FDM perspective as a SMS support system for users. **Panelists:**

- Carl Halford, Mitre Corporation
- Brett Ven Huizen J.D. Professor Aeronautical Science, University of North Dakota
- Dr. Doug Farrow, FAA Voluntary Safety Programs Branch AFS 230
- Captain Larry McCarroll CEO and Captain Scott Meacham, President CAPACG
- Dr. Alan Stolzer, Professor Aeronautical Science Embry-Riddle Aeronautical University

**Panel 3 FDM in GA; Experience & Intention, Panel Charge:** Describe actual and/or anticipated experience with FDM in rotary and fixed wing GA operations. **Panelists:**

- Lindsay Cunningham, Senior Accident Investigator American Eurocopter
- Captain Steve Hanvey, CEO SATSAir
- Steve Jones, Western Michigan, Interim Assoc Dean
- Captain Craig Bentley, Managing Director of Operations Cape Air
- Jared Simon, Coordinator FDM, PHI Inc
- Captain Lou Nemeth, VP Training Delivery and Standards CAE

**Virtual FDM Project:** Professor Jim Higgins, UND. Describes the concept of creating and processing "virtual FDM" data and how it contributes to the efficacy of FDM II.

**FDM Research Project:** Dr. David Esser, Principal Investigator, reviews the five task research project. Facilitation of the discussion will lead to expression of interest among participants to join sponsored Task Three, Four & Five operations in support of demonstrating safety, economics, and process viability of GA FDM in their respective sectors of aviation.