

Fact Sheet

Center of Excellence for General Aviation Research (CGAR)

Established: 2001

Technology Areas:

- o NextGen ADS-B
- o Weather Technology in the Cockpit
- o General Aviation Safety Management Systems
- o Airport Safety
- o Pilot Training Standards
- o Unmanned Aircraft Systems

Sponsor: Aviation Research Division

Web: <http://www.cgar.org/>

Federal Aviation Administration Administrator, Jane Garvey, selected a team of universities that forms the Air Transportation Center of Excellence for General Aviation Research (CGAR) in March 2001. The Embry-Riddle Aeronautical University (ERAU) serves as lead for the core team, which includes Wichita State University, the University of North Dakota, and the University of Alaska. Affiliate universities include Florida A&M University and Middle Tennessee State University. In August 2001, the universities entered into cooperative agreements with the FAA, allowing them to share as equal technical partners in support of GA safety-related research and development.

Centers of Excellence (COEs) are designated following rigorous competition and a formal evaluation based on selection criteria mandated in Public Law 101-508, the FAA Research Engineering and Development Authorization Act of 1990.

Funding for the center is provided through cost-share contract awards, and grants subject to dollar-for-dollar matching requirements mandated by Congress. The COE represents a long-term FAA commitment over a period of 10 years. Through the Air Transportation Centers of Excellence program, the FAA enhances internal research efforts with access to academic research, and hastens the application of this work to benefit the aviation community and the flying public.

By establishing major research centers throughout the country to advance aviation-related technologies, the FAA proactively works toward creating a pool of professionals trained in aviation-related research areas; helps finance graduate education; fosters cooperative FAA-university-industry research and development; and ultimately improves the national airspace system.

FAA Centers of Excellence form a cumulative repository of aviation-related knowledge and encompass the entire spectrum of research and development from basic research to engineering development and prototyping.

The FAA has funded more than 100 projects, reports, theses, and doctoral dissertations through this Center of Excellence partnership. More than 250 graduate and undergraduate students have participated in research activities associated with this COE. The COE members and industry affiliates have provided more than \$15M in matching contributions.

CGAR projects include:

- o Effect of ADS-B on Near Mid-Air Collision Rates of General Aviation Aircraft
- o Remote Airport Lighting Systems (RALS)
- o Weather Technology in the Cockpit (WTIC)
- o Safety Management Systems (SMS)
- o Joint Training Standards Development -FAA Industry Standards Program
- o UAS Research
- o Human Factors in General Aviation
- o Flight Data Monitoring (FDM)

For additional information:

University Lead:

Steven Hampton, Ed. D.
COE for General Aviation Research
Embry-Riddle Aeronautical University
600 S. Clyde Morris Blvd.
Daytona Beach, FL 32114-3900
Phone: (386) 226-6725
Fax: (386) 323-5094
Email: hamptons@erau.edu

FAA Program Manager:

Peter Sparacino
FAA William J. Hughes Technical Center
Atlantic City Int'l Airport, NJ 08405
Phone: (609) 485-5430

C:\Users\509088\Documents\FAA\TORP
1339\coe\COE_Fact_Sheets_10222012\2012_Fact_Sheet_-_CGAR.doc
10/22/2012

Fax: (609) 485-4101

Email: peter.sparacino@faa.gov

C:\Users\509088\Documents\FAA\TORP
1339\coe\COE_Fact_Sheets_10222012\2012_Fact_Sheet_-_CGAR.doc
10/22/2012

University Partners:

Embry-Riddle Aeronautical University

University of North Dakota

University of Alaska

Wichita State University

Affiliate Members:

Florida A&M University

Middle Tennessee State University