



PEGASAS

Center of Excellence for General Aviation Safety

The mission of the Center of Excellence of Partnership to Enhance General Aviation Safety, Accessibility and Sustainability (PEGASAS) is to focus on general aviation safety, accessibility, and sustainability by partnering the FAA with a national network of world-class researchers, educators and industry leaders.

Every general aviation (GA) enthusiast knows first-hand many of the challenges – ranging from the familiar frustrations of weather to the new opportunities of NextGen technology. A majority of these issues fall within one of these three key categories: safety, accessibility and sustainability.

Through unique approaches to re-research, education, and outreach, PEGASAS focuses upon increasing safety by mitigating the risk facing GA pilots, passengers, and property. PEGASAS strives to ensure that GA remains accessible across the spectrum of general aviation, from the light sport aircraft owner to those flying in fully instrumented, fully equipped business jets. Finally, this COE endeavors to expand GA's sustainability in a way that allows the industry to serve the needs of future stakeholders, encompassing environmental, economic, social and educational concerns.

This COE is comprised of world-renowned universities with top-tier aviation programs and highly respected schools of engineering, science and policy. PEGASAS has the ability to recruit and engage students and faculty with those who are top in their respective core fields with interests applicable to broad aviation topics. Three of the six core members own and operate their own airports: Purdue, Ohio State, Texas A&M. Other COE members have well established relationships with their community airports and maintain facilities and aircraft fleets at those airports.

Established: October 2012

Research Areas

1. Flight Safety
2. Communication, Navigation, Surveillance
3. Human Factors
4. Weather
5. Airport Technology
6. Propulsion and Structures
7. Continued Airworthiness
8. System Safety Management
9. Other Research Areas

Sponsor:

Airport and Aircraft Safety Research & Development Division

<http://www.pegasas.aero>



Core University Partners

- Purdue University (**Lead**)
- Florida Institute of Technology
- Georgia Institute of Technology
- Iowa State University
- Texas A&M University
- The Ohio State University

University Affiliates

Arizona State University, Florida A&M University, Hampton University, Kent State University, North Carolina A&T State University, Oklahoma State University, Oregon State University, Southern Illinois University-Carbondale, Tufts University, University of Minnesota-Duluth, and Western Michigan University.

Industry, Professional, and Community Affiliates

PEGASAS has established an extended network of state and local general aviation-related organizations and industry affiliates which extend from local to multi-national in size and presence. They include a representative sample within the aviation industry's broad spectrum from: Bell Flight, Embraer, Gulfstream, Joby Aviation, Piper, Sikorsky, Textron Aviation, Rolls Royce, Airspace Experience Technologies, Jet Aviva, NetJets, Uber Elevate, CloudAhoy, Frasca International,

FlightSafety International, Redbird Flight Simulations, TruSimulation + Training, Apsen Avionics, Avidyne, CAPACG, Harris Corporation, Raytheon, Smartsky Networks, Spirit Avionics, Mindstar Aviation, Polaris Aero, Adaptive Aerospace Group, Nelson Consulting, Pfeiffer Consulting, The Spectrum Group, Woolpert, Columbus Regional Airports, South Bend Airport, Fort Wayne Airport, Kelly Field/San Antonio, Huntingberg Airport, Purdue Airport, Indiana Chapter – American Concrete Pavement Association, Florida, Georgia, Indiana, Iowa and Texas Departments of Transportation, NASA Flight Deck Display Research Laboratory, GAMA, EAA, HAI, Malibu-Mirage Owners and Pilots Association, NBAA, NAFL, OAI, SAFE, OFRN, Take Flight Solutions

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The FAA has also established the following Center of Excellence:

- Unmanned Aircraft System (UAS)
<http://www.assureuas.org>
- Alternative Jet Fuels and Environment (AJFE)
<http://ascent.aero/>
- General Aviation Safety (GA)
<https://www.pegasas.aero/>
- Commercial Space Transportation (CST)
<http://www.coe-cst.org/>
- Joint Center for Advance Materials (JAMS)
<http://www.jams-coe.org/>
- Technical Training and Human Performance (TTHP)
<http://www.coetthp.org>