



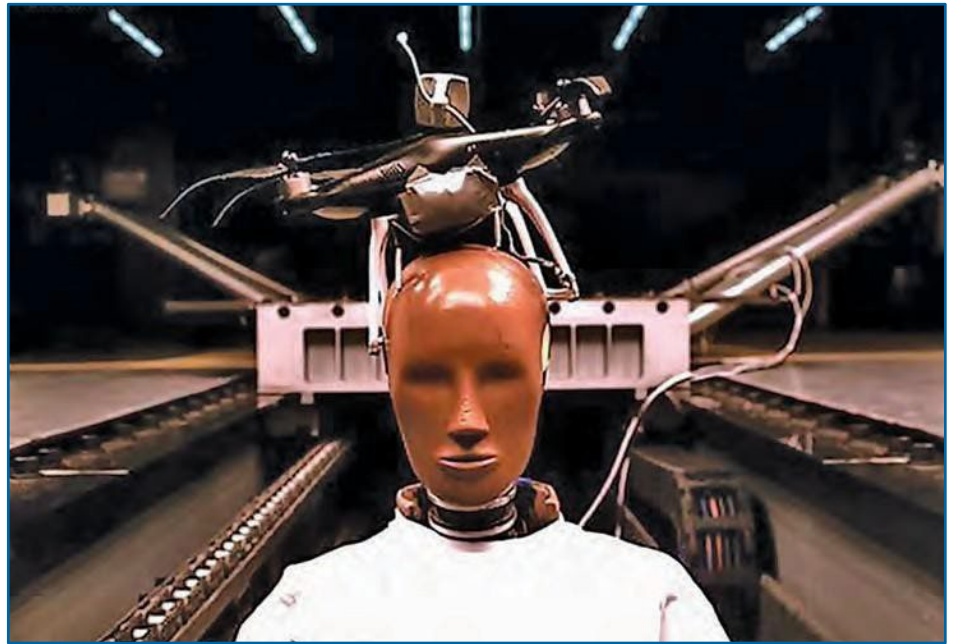
ASSURE

Center of Excellence for Unmanned Aircraft Systems

The Center of Excellence for Unmanned Aircraft Systems (COE UAS) was selected by Federal Aviation Administration (FAA) Administrator Michael Huerta on May 12, 2015. This COE is also known as ASSURE – the Alliance for System Safety of UAS through Research Excellence includes a cooperative aviation research organization led by Mississippi State.

This COE alliance features expertise across a broad spectrum of research areas including: air traffic control interoperability, UAS airport ground operations, control and communications, detect and avoid, human factors, UAS noise reduction, UAS wake signatures, unmanned aircraft pilot training and certification, low altitude operations safety, spectrum management and UAS traffic management.

The mission of the COE UAS is to provide the FAA the research needed to quickly, safely and efficiently integrate unmanned aircraft systems into our National Airspace System (NAS) with minimal changes to our current operations.



The COE UAS vision is to help the Unmanned Aircraft System market safely grow into its potential by conducting research that quickly, safely and effectively enables flight alongside manned aircraft around the world.

The COE UAS research is enabling the FAA to adapt the U.S. air traffic control system, procedures, guidelines to handle

unmanned traffic and its expanding roles and uses, underscoring the importance of Next Generation Air Transportation System (NextGen), which will allow UAS to be operated safely and efficiently inside domestic airspace.

FAA aircraft certification rules must also keep up with the demand for UAS design, production and operation in the United States.

Selected - May 2015

COE for Unmanned Aircraft Systems
Sponsor – AVS

Research Areas

- Air Traffic Integration
- Airworthiness
- Control and Communication
- Detect and Avoid (DAA)
- Human Factors
- Low Altitude Operations Safety



Core University Partners

- Mississippi State University(Lead)
- Drexel University
- Embry-Riddle Aeronautical University
- Kansas State University
- Montana State University
- New Mexico State University
- North Carolina State University
- Oregon State University
- University of Alabama-Huntsville
- University of Alaska-Fairbanks
- University of California Davis
- University of Kansas
- University of North Dakota
- The Ohio State University
- Wichita State University

Affiliate Members

- Concordia University
- Indiana State University
- Louisiana Tech University
- Tuskegee University
- University of Southampton
- Sinclair Community College
- Auburn University
- Technion-Israel Institute of Technology
- Nanyang Technological University

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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>