

Awards in Arizona

Embry-Riddle business students beat big rivals for second year in a row

An Embry-Riddle team of business students from the Prescott Campus took second place in the Phi Beta Lambda State Leadership Conference in Phoenix, an annual competition that attracts students from Arizona colleges and universities.

For the second year in a row, Embry-Riddle defied expectations and surpassed better-known programs from Arizona State University and the University of Arizona.

The Embry-Riddle team took home the most awards in events in which nearly 100 students from eight schools competed in business law, decision-making, economics, financial analysis, management concepts and statistics. Competition judges came from major companies such as IBM and Southwest Airlines.



Embry-Riddle's award-winning business students.

FAA helicopter research flights

Student team demonstrates new safety technology

Working with Tomlinson Aviation Inc. of Ormond Beach, Fla., and Systems & Electronics of Chicago, Embry-Riddle has completed the first of a series of FAA-sponsored research flights demonstrating new safety technology for helicopters.

Funded with a grant of \$620,000 from the Federal Aviation Administration, the project is evaluating Health and Usage Monitoring Systems (HUMS) equipment that uses onboard sensors to monitor flight conditions and the health of helicopter components.

"Thanks to this technology, helicopter components in poor health can be retired early, and healthy components can receive a life-limit extension," says Dr. Pat Anderson, the Embry-Riddle Aerospace Engineering professor who is directing the HUMS project. "Thus, HUMS will help helicopter operators increase safety while, at the same, time lowering operating expenses."



ERAU's research flight project team.

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More news and events at Embry-Riddle this quarter:

- **President John P. Johnson has been named to the Flight Safety Foundation's Board of Governors—the first university representative to join this prestigious board.**
- **Embry-Riddle will receive nearly \$2 million in grant funding from the FAA to establish an "Integrated Airport."**
- **Embry-Riddle's Daytona Beach Campus is the first sponsor to receive FAA Level 6 qualification for its two Frasca DA-42 Flight Training Devices.**



Fuel for change

Embry-Riddle students conduct aviation biofuel research

With aviation fuel costs on the rise and no relief in sight, students in the Society of Aviation Technicians at Embry-Riddle Aeronautical University have launched a research project to test the performance characteristics of biofuel in an aircraft engine.

The Embry-Riddle students are using a Lycoming four-cylinder aircraft engine to evaluate E85 biofuel, a blend of 85 percent ethanol and 15 percent gasoline that the U.S. Department of Energy considers the best alternative to petroleum.

Students from a variety of degree programs, including Aerospace Engineering, Aviation Maintenance Science and Homeland Security, are taking part in the study.

"This multidisciplinary approach plays to the strengths we have here at Embry-Riddle," says Arthur Eldridge, admissions officer for the Aviation Maintenance Science Department and advisor to the Society of Aviation Technicians. "The university encourages students and faculty from different disciplines to work together in areas that foster greater learning opportunities while yielding significant industry data."

Embry-Riddle wins Collier Trophy

Embry-Riddle Aeronautical University is among the winners of the 2007 Collier Trophy for being part of a team of organizations that collaborated to develop the automatic dependent surveillance-broadcast (ADS-B) system, a new technology that promises to greatly improve the safety, capacity and efficiency of the national airspace system.

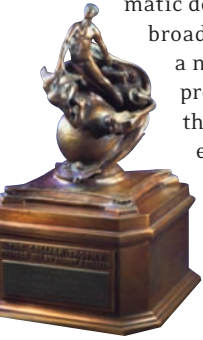
As the nation's largest collegiate aviation program, Embry-Riddle pioneered the implementation and testing of ADS-B in its aircraft.

The flight training fleets at its campuses in Daytona Beach, Fla., and Prescott, Ariz., are fully equipped with the new technology.

"We're proud to have been a leader in implementing this revolutionary technology," says Dr. John P. Johnson, president of Embry-Riddle. "It is fair to say that it has reduced the risk of midair collisions dramatically at both of our campuses."

With ADS-B, both pilots and controllers see radar-like displays with accurate traffic data from satellites, updated in real time. The improved situational awareness enables pilots to fly at safe distances from each other with less assistance from air traffic controllers.

The Collier Trophy is given annually by the National Aeronautic Association to companies and individuals for "the greatest achievement in aeronautics or astronautics, with respect to improving the performance, efficiency, and safety of air or space vehicles." Past recipients have included Orville Wright, Chuck Yeager, the Apollo 11 crew, Burt Rutan and the developers of GPS.



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- **The University Continuing Education Association awarded its Distinguished College Course Award to Embry-Riddle Worldwide Online for its undergraduate meteorology course content.**
- **Thomas I. Herrera, an Embry-Riddle Worldwide student at Whidbey Island, was awarded "Marine of the Year."**

- **Beth McCubbin captured the school's first-ever individual national championship in track for the 1,000-meter run.**

Taking the classroom downrange

Worldwide Campus provides education in Afghanistan and Kuwait

True to its commitment to provide educational opportunities where they are needed most, Embry-Riddle Worldwide is "taking the classroom downrange." At its Afghanistan and Kuwait campuses, Embry-Riddle is providing educational programs to Bagram, Camp Buehring and other off-site bases in the region.

Under such extraordinary circumstances, Embry-Riddle has employed some creative thinking to give the nation's deployed military men and women the same quality of instruction as their stateside counterparts.

For example, by having its instructors remotely assist in arranging courses to be administered at Forward Operating Bases that cannot be accessed by nonmilitary personnel, Embry-Riddle has been able to offer on-ground courses to students who otherwise would not have been able to attend a course in the classroom.

Deployed online students are benefiting from creative approaches, too. Since online students are sometimes challenged by inconsistent Internet access, Embry-Riddle is piloting its "Blackboard Backpack" program, in which service members in remote locations are able to download courses to their personal laptops and participate as if attending the online course. Students will have access to discussion questions, assignments and peer interaction, and once they are in an area where Internet connection is possible, they can upload their assignments into their Blackboard classroom.

If enrollments are any indication, the efforts to serve the nation's deployed are paying off. The Afghanistan campus has had more than 200 enrollments since August 2007, with more expected on the horizon.

"Providing for the educational needs of our military men and women, wherever they are deployed, is a critical part of our mission at Embry-Riddle Worldwide," says Chancellor Marty Smith. "We'll do whatever it takes to make sure they have what they need to succeed."



Embry-Riddle Worldwide's "Blackboard Backpack" program allows military students to take courses while deployed in remote locations.