



Employ Florida BannerCenter

>>> Aviation & Aerospace

VOLUME 3, NO. 1, FALL 2010

AEROSPACE RESOURCE CENTER

Our Mission

The Aerospace Resource Center is the Employ Florida Banner Center for Aviation & Aerospace. It is a statewide, industry-driven resource for aviation and aerospace workforce education and training.

Aviation & Aerospace Advisory Council

The Council is made up of industry leaders in the State of Florida providing direction for implementing Banner Center industry education and training objectives.

Key Dates

Aviation & Aerospace Advisory Council Meetings

Thursday, February 10, 2011
via conference call/webinar
10:00 A.M. - 12:00 P.M. EST

Thursday, May 12, 2011
via conference call/webinar
10:00 A.M. - 12:00 P.M. EST

Focus Group Meeting

Thursday, April 7, 2011
TBA, Lakeland, FL
8:30 A.M. – 11:30 A.M. EST

Program Manager Update

By Tom Baine, Program Manager

The fourth year of the Aerospace Resource Center (ARC), the Employ Florida Banner Center for Aviation and Aerospace, has started off strong with several training courses completed for various industry partners since the summer. Furthermore, new courses are being developed to bridge aerospace training gaps to meet the needs of industry here in Florida, and demand for curriculum development and delivery is increasing.

Demand for ARC training is increasing outside of Florida. We have been contacted by organizations from various parts of the U.S. and have even delivered training to a customer in Pennsylvania. Interest in our training has come from potential customers in Mexico, Germany, and even the United Arab Emirates. The ARC has already delivered various training courses as of late, and it has developed and delivered a new air conditioning course for the Beechcraft T-44 King Air aircraft.

The recent focus group in the Miami-Dade area was a great success. We appreciate the gracious hospitality of Principal Sean Gallagan and his staff at the George T. Baker Aviation School (GTBAS) and their industry partners at American Airlines for their time and efforts in hosting us at their facilities.

Sean Gallagan gave me a tour of the GTBAS when I was in Miami. As Sean showcased his exceptional program, I can say I was delighted to see such a diverse group of students working on a broad range of aircraft from small homebuilt aircraft to a modern MD-80 recently donated by American Airlines. They even have a biplane that students built from scratch and a working jet engine that a student built from spare auto parts and household items. Sean and his team have a lot to be proud of at GTBAS and we look forward to a long and prosperous partnership with their organization.

As we move forward in our fourth contract year, we will remain focused on continuing industry partnerships and developing and delivering relevant industry-driven curricula as needed. We look to expand our reach in the state by reaching out to new industry, education, and workforce partners. Only by working together can we truly have an impact on strengthening the aerospace industry in Florida.

Banner Center Staff

Gene Milowicki
Director

Tom Baine
Program Manager

Judy Rice
Program Coordinator

Contact Information

Aerospace Resource Center
Florida State College at
Jacksonville
Aviation Center of Excellence
13450 Lake Fretwell Street
Jacksonville, FL 32221
(904) 317-3842
Email: info@aerocenter.org
Web: <http://www.aerocenter.org>

Visit us online at:

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To learn more about the Aerospace Resource Center (ARC), an Employ Florida Banner Center for Aviation and Aerospace, go to our web site at: www.aerocenter.org or contact us at info@aerocenter.org.

Feature Story

The Central Florida Aerospace Academy's New Facilities

From material contributed by John Small and John Burton

The Central Florida Aerospace Academy (CFAA) in Lakeland, Florida, an aviation-oriented career academy located on the Sun 'n Fun campus on the Lakeland Linder Regional Airport, is well on its way towards being the proud occupants of a new \$7.5 million dollar, 58,000-square-foot educational facility. Ground was broken last April for the school which is scheduled to open in its new facility in August 2011. The CFAA's current facilities limit the academy to only 175 high school students while the new building will increase capacity to 500 students.

Funding for the new building is a result of a gracious \$7.5 million grant to Sun 'n Fun from the Aviation Education Foundation, a not-for-profit organization founded by James C. Ray and located in Naples, Florida. The organization is also providing an additional grant of up to \$500,000 towards the purchase of furniture and equipment for the new building.

Mr. Ray is a former WWII bomber pilot with more than 70 years of flying experience and a strong dedication to aviation. He and his organization have a long history of philanthropy. They have provided start-up funding to more than 300 organizations. Beneficiaries of their gifts include such organizations as Eclipse Aviation; Cirrus Design; Sun 'n Fun; EAA; University of North Dakota; Museum of Flight in Seattle; and Future of Flight Aviation Center in Everett, Washington, among others.



Image used with permission from the Polk County School Board.

The New Central Florida Aerospace Academy Building in Lakeland, Florida.

The CFAA began three years ago when John Small, senior director of workforce education for the Polk County School Board, and Rick Garcia, president of Gulf Coast Avionics, came up with the idea for an aviation academy for the area. The consortium which have worked on CFAA issues since the beginning include Sun 'n Fun, Polk State College, University of South Florida Polytechnic, Central Florida Development Council, FAA Safety Team and Production Studios, Lakeland Linder Regional Airport, Traviss Career Center and Workforce Education. Its creation fulfilled a dream of Mr. Garcia, who has a passion for introducing young people to aviation.

Sun 'n Fun, under the leadership of President John Burton, is currently using the grant to construct the building and will lease it to the Polk County School Board for 25 years. At the end of the 25 year period, the building will become the property of the Polk County School Board. Ninety percent of the lease fees from the building will support a flight school operated by a separate non-profit organization, the Central Florida Aerospace Academy Foundation, whose goal is to offer CFAA students opportunities for ground school instruction and flight training.

For more information, visit www.polkacademies.com/cfaa or call 863-647-4761.

The Aerospace Resource Center

By Sandy Lu, Author

This article originally ran in the FATA magazine, Florida Aviation Business, Fall 2010. FATA promotes and protects the interests of general aviation. For more information about FATA, visit www.fata.aero

It was Wilbur Wright, that great innovator of human flight, who once said "It is possible to fly without motors, but not without knowledge and skill."



Together, the Aerospace Resource Center (ARC), an Employ Florida Banner Center for Aviation and Aerospace, and Florida State College at Jacksonville have certainly taken this sentiment to heart.

The ARC is a state-wide, industry-driven organization that aims to promote aerospace education in Florida. Its direct connections to Florida's aviation and aerospace businesses give it a real-world advantage in developing relevant training programs for Florida's future aerospace workforce.

The Aviation and Aerospace Industry Advisory Council is one such example of the ARC's reach in Florida's aerospace environment. Composed of aviation executives from the industry, education, and workforce sectors, the council serves as an advisor and guides the ARC's endeavors toward the needs of the future. Members include representatives from such prominent institutions as the Smithsonian Institution, the Florida Aviation Aerospace Alliance, Astrotech Space Operations, Indyne, D3 Air & Space Operations, Piper Aircraft, Space Florida, Liberty Aerospace, NASA, Lockheed Martin Space Systems, Adacel Systems, JetBlue Airways, Embry-Riddle Aeronautical University, Regional Workforce Boards, Workforce Florida, Enterprise Florida, and state-wide educational institutions.

The intent of the ARC is to ensure a qualified workforce by maintaining a technologically skilled Florida industry, generating revenue through worthwhile innovation, and stimulating the economy by identifying new customers.

Florida State College is the ninth-largest educational institution in the nation, in terms of enrollment, and

(continued on page 3)

Regional Education Spotlight

New Aircraft Services Educational Facility in Northeast Florida

By Gene V. Milowicki, Director, Aerospace Resource Center

It's all about JOBS and Economic Development for our Community

Exciting things are happening close to home! Having broken ground on the project in September of 2009, the Aircraft Services Educational Facility (ASEF) at Cecil Field Airport and Commerce Center will be completed in November, just prior to Thanksgiving, and will commence training and education with its first cohort of students in January of 2011. This new \$20,000,000 facility is a joint and collaborative effort undertaken by Florida State College at Jacksonville, the Jacksonville Aviation Authority (JAA), and Flightstar Aircraft Services. This partnership is about to realize a vision that consists of a real Maintenance Repair and Overhaul (MRO) facility for airliners and large cargo transports that will also serve as a professional school house to train entry-level workers for the aviation and aerospace workforce. This one-of-a-kind concept will provide students with the unprecedented ability to be rigorously trained in state-of-the-art classroom and technical laboratory facilities that are directly adjacent to a large scale major production commercial operator.



Flightstar Aircraft Services: A Leader in Maintenance Repair and Overhaul

Flightstar Aircraft Services is a well-established and successful tenant at Cecil Field that specializes in heavy maintenance, inspection, modification, repair, and overhaul services for air transport category aircraft such as regional jets, the MD80, DC9, B727, B737, and B757. Services include all levels of scheduled maintenance from daily line checks to heavy depot level maintenance. Additionally, the company provides engine changes, complete avionics modifications, structural modifications and upgrades, reduced noise level modifications, and passenger-to-freighter conversions. With the ASEF coming online, an additional 100,000 square feet of enclosed maintenance hangar space and an additional 100,000 square feet of ramp space adjacent to the Cecil Field flight line will increase Flightstar's production capacity by nearly 40%. With three bays, the facility will be able to do enclosed, climate-controlled work on two aircraft up to B757 size, and one aircraft up to B767 specifications. The large B767-sized bay is also the designated coatings bay, which will be a new capability for Flightstar. With state-of-the-art air handling, paint application, and paint ablation waste handling capabilities, this bay will be capable of quick turnaround, full-scale aircraft coating services. A unique capability in Northeast Florida, Flightstar reports its schedule is already committed for over 10 months with customer contracts for aircraft refinishing. At peak production, Flightstar expects that staffing levels will reach an additional 200 employees.

Florida Coast Career Tech's Aircraft Coating Technician Curriculum (5950)

A division of Florida State College at Jacksonville, Florida Coast Career Tech will offer this curriculum, for the first time, in January of 2011 for a select group of 12 students in the initial cohort, and then 24 per term commencing in the summer term and every term thereafter. These students will receive rigorous and disciplined training in the art and science of aircraft coatings technologies and processes. The curriculum will be 40 contact hours per week, and will be delivered over a 16-week term for a total of 600 total contact hours. Completion will earn graduates a local workforce credit certificate.

Professional courses include the following:

- AMT 0121C - Aircraft Painting Safety and Health
- AMT 0132C - Aircraft Structures
- AMT 0061C - Aircraft Corrosion
- AMT 0123C - Aircraft Paint Removal Systems and Processes
- AMT 0122C – Aircraft Paint Systems
- AMT 0940 – Aircraft Paint Application Internship
- AMT 0124C – Aircraft Paint Completion

The program is designed to prepare a student to quickly enter into a career in aviation repair and maintenance that specializes in the detailing and application of interior and exterior paint and coating systems. Upon completion of the program, the student will possess the prerequisite knowledge and basic skills to properly conduct large scale paint ablation processes to remove paint and coatings systems from aircraft surfaces, inspect for and correct for metal corrosion and damage, properly prepare aircraft surfaces, and to apply primers and protective final finishing coatings. A qualified Aircraft Coating Technician can expect to find opportunities both here in Jacksonville and throughout the country. With the completion of this training, a graduate will be competitive for employment in general aviation, commercial aviation, military depot level maintenance facilities, and for aerospace vehicle (space and weapons systems) production and repair facilities. The sky really is the limit as these students will be launched into this high skills, high wage industry.

For additional information, on Florida Coast Career Tech or the Aircraft Coatings Curriculum, see the School of Aerospace link at www.fscj.edu or contact Ms. Pat Conway at 904-317-3824 to enroll.

it offers aviation education and training for those in the Jacksonville area. This location acts as the Jacksonville headquarters for the ARC's educational efforts. Florida State College's aviation course curriculum spans the entire range of aviation-related skills—from "Aviation and Airport Security" to "Aviation Weather" to "History of Air Transportation/National Airspace System" and beyond.

In addition to aviation training, the ARC and Florida State College also aspire to be trailblazers in the aerospace industry. An emerging facet of aerospace technology is the study of unmanned aircraft systems (UAS). As few other educational institutions offer training in the field, Florida State College and the ARC made their first foray into the science this year, with the addition of "Introduction to Unmanned Aircraft Systems" to their course offerings. Their goal is to be able to offer an Associate of Applied Science degree in UAS within the next two years. Through this, Florida State College and the ARC will simultaneously bring Florida to the cutting edge of the aerospace trade, and attract talent from other states to participate in our prestigious and unique educational and job opportunities.

One of the greatest priorities for the ARC and for the partnership between the ARC and Florida State College is to grow the aviation and space pipeline. ARC Program Coordinator Judith Rice best described the role of both organizations when she said, "Florida State College at Jacksonville and the Aerospace Resource Center provide a valued educational experience for the workforce and they help create the worker pipeline for Florida's future in aerospace."

The idea of a youth camp is one of the ways this goal manifests itself. Currently in the works, the camp will take place in June 2011 at the Florida State College's Aviation Center of Excellence at their Cecil Field Center South campus in Jacksonville. The program will incorporate the ARC's far-reaching connections and experience in the field of aerospace technology.

Their commitment to education is also being realized through the new scholarship opportunities soon to be offered by Florida State College and the ARC.

Space Program Update

Space: Spending Cuts and Fiscal Restraint...Careful What You Wish For!

By Edward Ellegood, Director of Aerospace Development, Embry-Riddle Aeronautical University

Voters made clear in November's election that spending cuts should be a priority for the 112th Congress. Nationwide, and throughout Florida, Democratic Congressional incumbents were dismissed in favor of Republicans who argued for less government and less spending. So how will this shift to the right impact Florida's space industry?



Florida space advocates spent much of 2009 and 2010 trying to convince Washington to increase space-related spending in the state, to mitigate the impact of the Space Shuttle's fast-approaching retirement. In response, the 111th Congress passed an authorization bill for NASA that includes an additional Space Shuttle mission, accelerated development of a heavy-lift rocket to replace the Shuttle, \$2 billion in upgrades at the Cape Canaveral Spaceport, and new NASA responsibilities at Kennedy Space Center for commercial astronaut launches and for exploration technology development.

Most of these Florida-based investments, along with an overall budget increase for NASA, were part of President Obama's new post-Shuttle plan for the agency. He also requested that \$40 million be provided through the Economic Development Administration (EDA) for projects to diversify Central Florida's space industry. But during the campaigns of 2010, many candidates claimed the President would cut NASA's budget and end human spaceflight in the U.S., some going as far as blaming Obama for President Bush's order to end the Space Shuttle program.

The authorization bill signed by President Obama in October defines how NASA would spend \$58.4 billion over the next three years, beginning with \$19 billion in 2011. However, an accompanying appropriation bill hasn't yet been passed to actually provide the funding to NASA. Now, despite their "lame duck" status, the Democrat-controlled 111th Congress could potentially pass the budget before the Republican-led 112th Congress takes over in January, but don't hold your breath.

What's more likely to happen is a renewed debate on NASA's future, in the context of a Republican budget-cutting "Pledge to America" that could reduce NASA's 2011 budget by nearly \$2 billion. So, while the 2010 candidates talked about resurrecting NASA's over-budget, behind-schedule Constellation moon program, or re-starting the hugely expensive Space Shuttle program, now that they're elected they'll have a hard time fitting anything into NASA's shrinking slice of the federal pie. As these big-program decisions are debated, I fear that those NASA investments tailored specifically to benefit Florida will be viewed as low-hanging fruit for the budget cutters.

Real World Design Challenge

By Dr. Ralph K. Coppola, Director

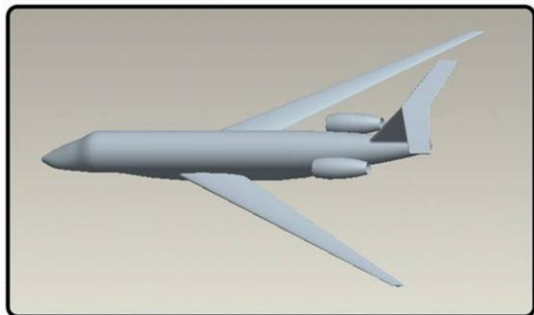


The Real World Design Challenge is an annual high school competition run by a public-private partnership with the goal of sustainably increasing the Science, Technology, Engineering, and Mathematics (STEM) workforce. The partners are focused on working within the context of the American educational system to transform STEM education in the United States by providing professional science and engineering and learning resources to students and teachers.



Baldwin High School Team-2010 National Winner

The Real World Design Challenge partners bring a broad base of resources and expertise from business, government, and academia. Throughout the pilot year, the partners have specifically focused on securing resources with high scaling costs. In fact, the 2009 competition brought more than a quarter-billion dollars in resources to schools, and the 2010 competition brought schools nearly a half billion dollars in resources. The Challenge is free to teachers and students. Each teacher gets \$1 million in professional engineering software and teams get access to professional mentors. Twenty-five governors have supported the "Governor's Challenge" at the state level. The National competition is held each year in Washington, DC.



Student Design

Students design a plane looking at the forces of flight with the aim of enhancing fuel efficiency. This year's State Challenge will be posted on the RWDC website by mid-September 2010. Registration is open now.

Thus far, 26 partner organizations have made the Real World Design Challenge possible through their generous contributions of resources. Numerous designers, mentors, and judges from across industry, government, and academia have also been key to the success of the program by donating their expertise to design the Challenge, share their knowledge with students, and evaluate the students work.

For additional information contact Dr. Ralph K. Coppola, Real World Design Challenge Director: phone: 703-298-6630, email: rcoppola@ptc.com, or go to the RWDC website to register a team and learn more www.realworlddesignchallenge.org

Janet's Planet Series Encourages Children's Science and Space Education

By Janet Ivey, Creator and Host

Created in 2000, Janet's Planet is a children's educational TV series that currently airs on more than 100 public television stations nationwide. Geared for elementary aged kids, the show features fast-paced and dynamic short episodes that explore a range of scientific themes through an interactive approach. The goal of the show is to make science fun and accessible, engaging children and inspiring them to learn more about space and science and become tomorrow's aerospace workforce.



Judith A. Rice, Program Coordinator for the Aerospace Resource Center, and Janet Ivey, of Janet's Planet, Inc., will be working alongside one another as StarBuzz Education Ambassadors, an educational corps of educators and scientists that will transmit an exciting new initiative that is the brainchild of Rocket Hero, Buzz Aldrin. Their shared passions about enlivening kids, parents and teachers interest in the great endeavor of space science created a synergistic relationship between the Aerospace Resource Center and Janet's Planet, and they will share educational content, curriculum, and helps to exponentially increase awareness, interest and a love for aerospace.

As Janet's Planet's marks its 10th anniversary, the company is proud of its accomplishments. The show has garnered four Gracie Allen Awards and nine regional Emmy Awards in its decade of production.

In 2009, Janet's Planet partnered with Space Florida to create the 35-minute DVD "Exploring Microgravity," a unique program that explains gravity and the phenomena and effects of microgravity (Janet was treated to the thrill of weightlessness aboard a 727 Boeing aircraft operated by the Zero G Corporation) for elementary and middle school-aged audiences. The program has been adopted by the Florida Department of Education, which has made it available to schools across the state to promote Science, Technology, Engineering & Mathematics (STEM) education. NASA Education has provided Janet's Planet with Microgravity Curriculum that is available for free for teachers and parents at www.janetsplanet.com.

Looking ahead to the next ten years, the vision for Janet's Planet is to produce entertaining educational television and visual data driven instruction for the classroom that is designed to improve U.S. students science rankings globally. (While the U.S. has more access to free education than any country in the world, U.S. fourth graders rank eighth in science, and, by the time they are in eighth grade, the ranking slides to 11th.)

Janet's Planet feels that unless we tap and fuel the scientific potential of today's youth, the next generation of inventors, scientists and space explorers – our very own work force – is in danger. And certainly without the talent and brainpower of young men and women, the dream of a manned mission to Mars by 2035 is in jeopardy.

Building on the success of the "Exploring Microgravity" DVD, the goal is to expand Janet's Planet to a full-length 30-minute live action children's television show to be syndicated nationally through a major network. Janet's Planet is seeking partners in this endeavor who will support our the following objectives:

- To raise U.S. students' science interest and ranking globally
- To encourage kids to become scientists, astronomers and explorers
- To provide visual educational resources for students and teachers

Every episode of Janet's Planet will include a hands-on scientific experiment which will encourage elementary students to use the scientific method, or what Janet's Planet likes to call, **JP's 6 E's!**

- Encounter (ask a question)
- Explore (form a hypothesis)
- Experiment (test theory by doing experiment)
- Evaluate (form a conclusion)
- Experience (real life application of findings)
- Express (use it! Socialization of what they have learned)



One of the Janet's Planet Classes

Janet believes we rob science education of life when we focus solely on results without a commensurate emphasis on transporting them out beyond the stars. Children's eyes light up when Janet tells a school group or assembly about black holes or the big bang. Janet believes the endeavor of space has to begin in the classroom. The amazing construct of our cosmos is the perfect entry point and invitation to go from explanation to exploration. Janet fell in love with the solar system because of her fifth grade teacher Ms. Ernestine Yarborough's infectious love of science!

Twenty-five years from now, the elementary school aged children of today will be the generation that takes the first brave steps onto another world. We should inspire our children to dream beyond their desk, their hometown and their earthbound experience.

Janet's Planet...the launch pad for tomorrow's scientists and space explorers, honoring the 'small step' of Apollo with a giant leap in space science education. Please visit Janet's Planet on Facebook at [Janet's Planet](https://www.facebook.com/janetsplanet) and on Twitter at [jjanetsplanet](https://twitter.com/janetsplanet).

Janet Ivey is the creator and host of Janet's Planet, an award-winning children's educational television program airing on public television stations nationwide. Janet also leads school assemblies on science and hands-on science experiments, and also offers creative hands on science seminars for teachers. For more information, visit www.janetsplanet.com or contact Janet Ivey at janet@janetsplanet.com.

Air Force Association and Dean Davis Recognized for Achievement in Aerospace Education

Submitted by Ken Cook, President, National Coalition for Aviation and Space Education (NCASE)

The Air Force Association and Dean Davis have each been awarded the 2010 Crown Circle Award in recognition of their outstanding achievements in the field of aerospace education.

The *Crown Circle Award*, established in 1979, is an NCASE recognition program honoring superior performance and outstanding leadership in aerospace education. The award is one of the highest honors available in aerospace education.



Those seeking this honor must demonstrate involvement in and commitment to aerospace education as a local, national, or international leader in aerospace education. Their performance must exhibit high quality over an extended period of time. Induction may also be the result of truly unique or outstanding achievement or contributions in aerospace education.

The Air Force Association (AFA) has supported and been a leader in Aerospace Education since its inception in 1946, beginning with AFA's founding father General Hap Arnold, and its first president, Jimmy Doolittle.

The AFA is an independent, non-profit civilian education organization promoting aerospace education and public understanding of aerospace power and the pivotal role it plays in the security of the nation. The AFA has continued this long tradition by more recently initiating three exciting new aerospace education activities: the Billy Mitchell Institute for Airpower Studies, the Elementary STEM Orientation Program, and CyberPatriot, the National High School Cyber Defense competition. AFA has shown consistent and enduring support for aerospace education for over 60 years and is aggressively pursuing new and innovative programs – today and for the future.

Dean Earl Davis, Senior Principal Aerospace Scientist-Engineer and Senior Study Leader for Boeing Phantom Works, Boeing's Strategic Development and Experimentation (SD&E) organization is a highly-requested, motivational, aerospace STEM presenter who knows how to enthrall, inspire, and capture the interest of students from kindergarten through 12th grade.

Dean supports aerospace education from within Boeing as the Education and Community Service Vice President for the National Management Association (NMA) and the Boeing Aerospace Leadership Chapter (BALC), where he develops, leads, coordinates, and delivers numerous youth aerospace education programs.

Mr. Davis is director for the California Space Authority (CSA) and for the California State Educational Workforce Initiative (CSEWI), where he helps develop aerospace education STEM plans for the State of California. At the American Institute of Aeronautics and Astronautics (AIAA) he supports regional and national aerospace education STEM activities. He promotes aerospace education and STEM internationally as Vice President of the Satellite Educators Association (SEA) which teaches STEM to students by providing information regarding meteorology, oceanography, earth resources, and GPS topics. Dean is the aerospace education and STEM consultant to the international high school Conrad Foundation, Space Solar Power, and Human Space Colonization contests.

Dean Davis has earned numerous awards for his aerospace education volunteer and STEM efforts, as well as for his continual demonstration of technical expertise. Dean's passionate dedication for aerospace education has inspired countless individuals over his 32 years of outreach.

Air Force Association and Lisa W. Bacon Recognized for Achievement in Aerospace Education

Submitted by Ken Cook, President, National Coalition for Aviation and Space Education (NCASE)

The National Coalition for Aviation and Space Education (NCASE) has selected both the **Air Force Association (AFA)** and **Lisa W. Bacon** of the American Institute of Aeronautics and Astronautics (AIAA) as recipients of the Dr. Mervin K. Strickler Aerospace Education Award, in recognition of their outstanding achievements in the field of aerospace education.

In 1995, NCAE established the Dr. Mervin K. Strickler Jr. Award to honor Dr. Strickler and to recognize individuals or organizations that share his personal commitment and lifelong contributions to aerospace education. Dr. Strickler has promoted aerospace education for more than 50 years and is considered the "father" of aerospace education.

Lisa W. Bacon has made significant contributions through her work at the American Institute of Aeronautics and Astronautics, which has positively impacted thousands of students and teachers around the world, particularly in the United States.

Bacon is the program manager for pre-college and college student conferences at AIAA. This program was established to help educate students and teachers about STEM-related events, content and careers. Bacon has inspired thousands of students to study math and science by designing and delivering programs such as the World Space Congress, a once-every-decade event where Bacon conducted student programs that impacted over 10,000 students. She is responsible for managing several programs for educators and has reached thousands of classroom teachers over a five year period. She has been a support to government, industry and labor in promoting aerospace education activities at the local, state, national and international levels.

The National Coalition for Aviation and Space Education represents government, industry, and labor united to promote aviation education activities and resources, increase public understanding of aviation, and support educational initiatives at the local, state, and national levels.

www.aviationeducation.org