

Spring South Central Section Meeting
Aerospace Education Report
May 5, 2018

In my Spring 2016 report I first offered you information from the American Institute of Aeronautics & Astronautics (AIAA) on the Micro Lessons (www.aiaa.org/MicroLessons). They are still cranking out excellent lessons. They now have 60 lessons out there for **free** structured for all ages. I hope maybe some of you went out to look at these outstanding standalone lessons or joined AIAA for FREE as an educator member.

Drones seem to be at the forefront of aviation news these days. I bet many of the youngsters you know already have a drone – or want one. Hopefully they know the safety regulations regarding drones. If not – here is a great topic for an Aerospace education session made all the more exciting if you have a drone for them to see and maybe fly.

Drones are bringing power back to Puerto Rico - Technology has been helping Puerto Rico rebuild and recover from Hurricane Maria. Duke Energy has sent workers and drones to Puerto Rico to fix the damaged power lines. Working in mountainous terrain that is difficult for the crew to navigate, drones are able to string power lines safely and more efficiently. Wired (tiered subscription model) (3/3)

www.wired.com/story/drones-electricity-puerto-rico

Samsung develops drone controlled through facial recognition - Samsung has developed a drone for job sites that continually scans a person's face, pupils and hand gestures and uses the information to control the machine. The drone also has a GPS and Wi-Fi-based positioning system and plans for voice recognition. Construction Dive (3/7)

<https://www.constructiondive.com/news/operators-can-control-this-samsung-drone-with-their-eyes/518608/>

FAA remote ID of drones paves way for opening of airspace - The Federal Aviation Administration's move to establish a remote ID framework for drones is seen as the first step in broadening where and how private drones will be permitted to operate. Law (tiered subscription model) (3/6)

www.law.com/therecorder/2018/03/05/drone-remote-id/?slreturn=20180209135209

The Real World Design Challenge (RWDC) is a great opportunity for High School students. The Real World Design Challenge (RWDC) is an annual competition that provides high school students, grades 9-12, the opportunity to work on real world engineering challenges in a team environment. Each year, student teams are asked to address a challenge that confronts our nation's leading industries. Students utilize professional engineering software to develop their solutions and generate presentations that convincingly demonstrate the value of their solutions.

The challenge is tough, but the learning experiences involved carry over well beyond this competition! Please check it out and spread the word to teachers and aviation enthusiasts. A team does not necessarily have to be in a school setting and, given today's technology, not necessarily located in the same town or state. They are always looking for MENTORS to help the students understand the aviation components of the challenge (www.realworlddesignchallenge.org).

RWDC provides **\$50,000 scholarships** from Embry-Riddle Aeronautical University to each student on the national winning team.

STEM Tidbits - On an erratic basis, I send out an email called **STEM Tidbits** with items I think would be of interest to educators, youth and aviation enthusiasts. The above paragraphs are samples of what STEM Tidbits might contain. If you want to be added to my email group, just contact me at akwoman86@yahoo.com. It is a blind cc group so I do not share anyone's email address.

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AOPA offers high schools a free, aviation-based STEM curriculum - AOPA is inviting high schools to apply to use its aviation-based ninth-grade STEM curriculum, which is free and aligned to Next Generation Science Standards and Common Core State Standards for Mathematics. "This is a major step in our work to help young people learn more about the engaging and well-paying careers in aviation, and it gives schools the tools they need to teach our children skills that will last for a lifetime," said AOPA President and CEO Mark Baker. AOPA Online (3/7)

www.aopa.org/news-and-media/all-news/2018/march/07/aopa-invites-schools-to-aviation-stem-curriculum

Build A Plane is expanding with a new **Build a Rocket** module. Build A Rocket is a new program giving schools across the United States an opportunity to build a high performance, high power 18' rocket. The rocket comes in an easy to assemble premanufactured kit and delivers a leading edge, high tech STEM education project to motivate students toward higher education. **Build A Plane** is a nonprofit organization dedicated to promoting aviation and aerospace by giving young people the opportunity to build real airplanes. Aircraft construction and restoration is not only exciting, but also provides a real-world application for learning science, technology, engineering and math. Check it out at www.buildaplane.com

AMA (Academy of Model Aeronautics) and industry partners launch sUAS educational campaign. The AMA and several industry partners have launched a new initiative to educate the public about the existing drone laws that pilots must follow and the consequences if they ignore or break the law. The new advertising campaign - Even the Sky Has Limits: Learn the Drone Laws - is targeted at consumers who have recently purchased, or have an interest in, drones (www.knowbeforeyoufly.org/learn-the-drone-laws).

I have become the Commander of my Civil Air Patrol Squadron and find it is more time consuming than I expected. I apologize to South Central Section Ninety-Nines Aerospace Education Chairmwn that I have not more actively engaged with you all.

1. What activities are you undertaking in your Chapter?
2. Are you connecting with local Girl Scout groups to offer an Aviation Day?
3. How many events have you executed in the last quarter?
4. How can I support your efforts? Do you need activity ideas?
5. Don't forget to visit the Section website

(www.scs99s.org/advisors.htm#Aerospace%20Education) and The Ninety-Nines International Website ([//www.ninety-nines.org/aviation-and-space-education.htm](http://www.ninety-nines.org/aviation-and-space-education.htm)) for Aerospace Education ideas.

Respectfully submitted,

Angie Slingluff
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Note: these items will be put on the SCS website in the Aerospace section of the Advisors page after the meeting.

For fun, see the Aviation People Bingo sheet in case you want an ice breaker activity.

For an event activity see the Aviation Bingo Card set half-size (two cards to a page for a total of 30 cards).