

## Fall SCS Section Meeting

### Aerospace Education Report

October 5, 2020

An email was sent to each of the SCS Chapter Chairs and Aerospace Education Chairpersons requesting a reply regarding whether or not they had done any Aerospace education activities since the last section meeting.

There are 25 Chapters in the Section with a total of 935 members. Of those only 15 Chapters have a dedicated AECH. The smallest Chapter has 7 members and the largest has 157 members.

In response to my email request asking whether or not a Chapter held an Aerospace Education event, I had FIVE chapters say NO they had not held an Aerospace Education Activity and FOUR chapters said they had one or more activities – for a total of FIVE events reaching approximately 100 youngsters. 15 chapters did not respond to my email.

During this time of the Covid 19 Pandemic, when in person meetings are restricted if not prohibited, it is impossible to bring youngsters together for Aerospace Education activities. However, an unseen benefit is that most of us have learned how to use an online platform such as ZOOM or TEAMS or other product. ZOOM meeting can be held for FREE for a one hour meeting. Often, more can attend an online meeting because they do not have to travel.

There are innumerable **YouTube videos** that can be shared offering inspiration and the examples of women in aviation doing amazing things that would be interesting to share.

[https://www.youtube.com/watch?v=1iC4lQb\\_HVE](https://www.youtube.com/watch?v=1iC4lQb_HVE)

<https://www.youtube.com/watch?v=4eYcmfk3Ecw>

Search You Tube for “notable women in aviation” to find many women aviators!

Some providers are offering special contests or activities online. Some highlights are:

Women in Aviation’s **Girls in Aviation Day** is now online with the new **Aviation for Girls App** for free, available for all, year-round. for girls ages 8-17. <https://www.core-apps.com/dl/wai>

**EDUCATION.COM** offers a variety of worksheets and lesson plans for Pre School through Grade 5 in a variety of subjects including Math and Science. While not explicitly aviation related the concepts can be shown to be relevant, e.g. a first grade activity about relative weights (“Weight Wonders: Big and Light...Heavy and Small?”) might be used to talk about weight and balance. Some 5<sup>th</sup> Grade Science activities might be used as well to challenge creative thinking.

**GAMA Opens Registration for 2021 Aviation Design Challenge:** This annual competition promotes aviation jobs and Science, Technology, Engineering and Mathematics (STEM) education in U.S. high schools through an aviation-focused curriculum and a virtual fly-off.

During the first part of the challenge, teams use the free “[Fly to Learn](#)” curriculum to learn the principles of flight and airplane design. During the second portion of the competition, teams apply their knowledge to modify an airplane design and complete a mission in a virtual fly-off using [X-Plane](#) software, a flight simulator for personal computers.

Registration is limited to the first 150 U.S. high schools (all types). Teams, which can be either high school classes or after-school programs, must include at least, but not limited to, three students, including at least two students of different genders, with the exception of single-sex schools. Only one team per school may enter. **Register here:**

<https://gama.aero/opportunities-in-ga/aviation-challenge/> Registration closes on Dec. 17, 2020, or once all available slots are filled.

NASA has an incredible set of resources for all ages, <https://www.nasa.gov/education/materials/>

**NASA/NIAC Free E-Book Series:** Thanks to a partnership with World Book, Inc., NASA is offering free access to **Out of This World**, a kids STEM e-book series featuring NIAC Fellows' concepts. **World Book** is offering virtual access to all eight e-books free of charge to support educators, parents, and students during the coronavirus pandemic.

The series features stories about the lives and scientific work of NASA Innovative Advanced Concepts (NIAC) researchers. NIAC supports the next generation of space exploration by investing in visionary ideas that could transform future NASA missions with the creation of radically better or entirely new concepts, helping to turn science fiction into science fact.

This web feature is available at [https://www.nasa.gov/directorates/spacetech/niac/Kids STEM E-book Series/](https://www.nasa.gov/directorates/spacetech/niac/Kids_STEM_E-book_Series/) and you can access the FREE e-book series on the World Book site <https://www.worldbook.com/nasa/out-of-this-world.htm>

**AIAA** (American Institute of Aeronautics and Astronautics) has a FREE educator membership and offers a plethora of activities including some 92 *Micro Lessons*. Each lesson includes activities geared for different age groups (Grades K-2, 3-5; 6-8; and 9-12). Micro Lesson 10 is about Jackie Cochran. Learn more at <https://www.aiaa.org/get-involved/students-educators/k-12-teacher-resources>

**Civil Air Patrol** has an **Educator Membership** for an initial fee of \$35 and renewable for FREE in exchange for sending a letter saying how you used their Aerospace Education materials. They have a collection of STEM kits that are also available. If you are looking for free aerospace/STEM lesson plans, activities, textbooks, products and programs to use in any classroom, after-school or enrichment program, we hope CAP will have something to help you! Our products and programs, below, can be used across disciplines and in both core and elective studies

<https://www.gocivilairpatrol.com/programs/aerospace-education/for-educators/aehome>

Over the next couple of months I will be working on updating in the Aerospace Education web page on the Section website. The challenge for me is that I have a ton of resources and a request was made to try to separate them by appropriate audiences / age groups.

Angie Slingluff

SCS Aerospace Education Chair

Rio Grande Norte 99s

Email: [akwoman86@yahoo.com](mailto:akwoman86@yahoo.com)

Phone: 907-330-4977