

2017 ASEE Annual Conference & Exposition: Aerospace Division Call for Papers

The **Aerospace Division** of ASEE invites full-length and work-in-progress papers for the 2017 Annual Conference and Exposition (June 25-28, 2017, Columbus, Ohio). Educators as well as engineers and scientists in industry from across the world are invited to submit current papers on any relevant topic in aeronautical and aerospace engineering and technology education. This year's theme is **Commit to P-12**.

Submission tips and guidelines

Abstracts and papers will be double-blind peer reviewed and judged based on the level of innovation, technical merit, demonstrated outcomes, and relevance to advancing aeronautical and aerospace engineering and technology education as appropriate. Special sessions, such as panel discussions, are encouraged but should be discussed directly with the program chair prior to abstract submission. Please refer to the Author's Kit, available at the ASEE Annual Conference web site, for additional information.

Student Papers

The Aerospace Division will accept student papers that are authored and presented by students. It is possible for a faculty member to serve as a co-author. Qualified papers will be considered for the Aerospace Division Student Paper Awards. Each award will consist of a certificate and a stipend.

Work-in-Progress Papers

The Aerospace Division will accept work-in-progress (short) papers that report on partially complete activities in any of the areas listed. Authors will have an opportunity to choose the work-in-progress designation at the time of submitting abstracts.

Questions regarding the abstract or paper submission can be directed to the Aerospace Division Program Chair, Dr. Antonette (Toni) Cummings, by email: tonicumings81@gmail.com or by phone/text: 817-454-9779. Aerospace.asee.org

Suggested topics

1. **Engineering Epistemologies** (research on what constitutes engineering thinking and knowledge within social contexts now and into the future)
 - professional development of aerospace engineers
 - aerospace systems engineering
 - Integration of professional skills into an aerospace engineering course
2. **Engineering Learning Mechanisms** (research on engineering learners' developing knowledge and competencies in context)
 - aircraft and/or spacecraft design education
 - capstone and/or student industry experiences
 - hands-on experiences (which may include laboratory classes)
 - educational activities that are done outside the classroom to enhance aerospace students educational experience
 - integration of CubeSats or nanosats projects into the curriculum
3. **Engineering Learning Systems** (research on the instructional culture, institutional infrastructure, and epistemology of engineering educators)
 - effective and innovative teaching and projects in any and all aerospace courses
4. **Engineering Diversity and Inclusiveness** (research on how diverse human talents contribute solutions to the social and global challenges and relevance of our profession)
 - **P-12 outreach**
 - student persistence in aerospace engineering
5. **Engineering Assessment** (research on, and the development of, assessment methods, instruments, and metrics to inform engineering education practice and learning)
 - aerospace engineering curriculum development or assessment
6. Other topics of interest to the aerospace division community

Updates and Deadlines

<https://www.asee.org/conferences-and-events/conferences/annual-conference/2017>

Did you have a memorable experience with a national student competition and its educational impacts?

Have you thought about the influence of hands-on activities in lecture dominated courses?

Are you conducting research in aerospace engineering education or technology education?

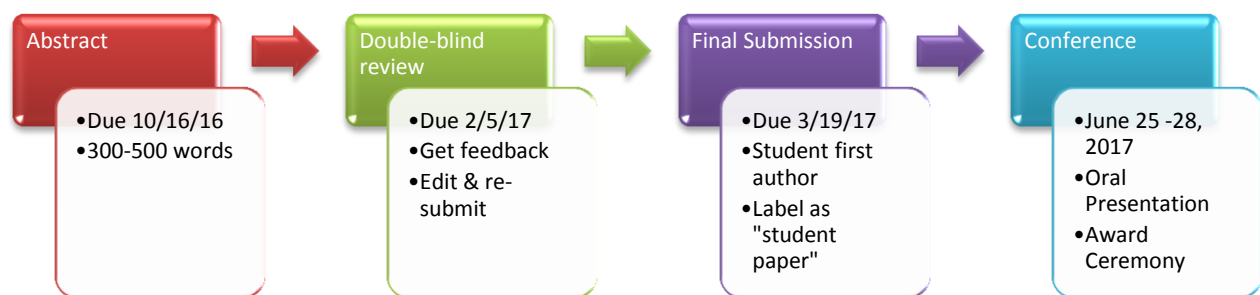
Have you tried innovative teaching practices as a graduate TA in lectures, labs, or recitations?

Do you have something to say about other activities in aerospace engineering or technology with main focus on education?

If you answered YES to any of these questions, then the **Aerospace Division (AERO)** invites you to tell us about it in a student-authored paper in all areas related to aerospace engineering and technology education. Turn your thoughts and observations into reality! Help shape the future of how engineering is perceived and taught!

Student Paper Attributes

- **AUTHORS:** Work is mainly conducted by one or more undergraduate / graduate students in collaboration with their faculty advisors. The final manuscript of each accepted paper will list a student as the lead author and faculty advisor as a co-author. Each student presenter must register for the annual conference.
- **FOCUS:** Paper has a significant educational component.
- **AWARDS:** Only the papers presented by the student authors or co-authors are eligible for student paper awards. Up to three student papers will be recognized by both cash awards and certificates.



<http://aerospace.asee.org>

\$\$\$ Top 3 papers \$\$\$

Abstract due: 10/17/16

Final paper: 2/6/17

Conference: 6/25 – 6/28/17

Columbus, OH & Wright-Pat

Museum trip

Questions to Program Chair:

toni.cummings1@gmail.com

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