

**2022 ASEE Annual Conference & Exposition**  
**Minneapolis, Minnesota, June 26-29, 2022**

***Aerospace Division Call for Papers***

**The Aerospace Division** of ASEE invites full length and work-in-progress papers for the 129<sup>th</sup> Annual Conference and Exposition. Aerospace and aviation educators, engineers, technologists, researchers in industry or agencies, and students from across the world are invited to submit papers on relevant topics in aviation, aeronautical, and aerospace engineering and technology education and pedagogy.

Suggested topics related to aerospace engineering or aviation science education include, but are not limited to:

1. *Epistemologies*. Research on what constitutes thinking and knowledge within social contexts now and in the future.
  - Professional development of aerospace engineers, aviation science and engineering technologists
  - Integration of professional skills into an engineering or engineering technology course
  - Systems engineering in aviation and aerospace
2. *Learning Systems and Pedagogy*. Research on the methods, instructional culture, institutional infrastructure, and epistemology of educators.
  - Effective and innovative teaching and projects
  - Student industry and competition experiences
  - Curriculum development or assessment
  - Program accreditation
  - Teaching strategies and lessons learned for effectively delivering courses and hands-on activities in remote/online settings
  - Incorporation of hands-on learning experiences inside or outside the classroom
3. *Diversity, Equity and Inclusiveness*. Research on how diverse human talents contribute solutions to the social and global challenges and relevance of our profession
  - K-12 outreach
  - Student attrition, persistence, and resilience
  - Women and under-represented groups in aerospace engineering in both academia and industry
4. *Ecosystem*. Research on the emerging boundaries and inclusion of systems in aviation or aerospace.
  - New and emerging systems or categories in aviation and aerospace
  - Integration of Unmanned Aerial Vehicles, CubeSats, or Nanosats in the curriculum
  - Expanding commercial space industry and how academia could adapt to include new opportunities

## **Student Papers**

The Aerospace Division invites students to submit student-authored papers in all areas related to aerospace engineering, aviation science and technology education. Turn your thoughts and observations into reality! Help shape the future of how engineering or technology is perceived and taught!

### **Requirements for student papers**

- Work is mainly conducted by undergraduate or graduate student(s) in collaboration with a faculty advisor. The final paper 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.
- Paper has a significant educational component.

### **Student Paper Awards**

Up to 3 student papers will be recognized by cash awards, certificates, and a one-year student online membership to ASEE and the Aerospace division. Student membership includes free registration to the 2023 ASEE Annual Conference & Exposition.

Only the papers presented by a student author(s) or co-author(s) are eligible for student paper awards. Award money is split between student co-authors.

Superior: \$500

Distinguished: \$300

Meritorious: \$200

Membership in the Aerospace division is not required for winning the student paper awards, and has no bearing on the scoring. However, membership is encouraged.

### **Abstract Submission tips and guidelines**

Abstracts, with approximately 500 words, must be submitted electronically through the ASEE paper submission system. The abstracts should contain enough detail on the topic of discussion, methodologies, preliminary results (if any) and expected outcomes to facilitate informed review of the abstract. 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.

- If the paper is a “Work-in-Progress”, please include that in the title.
- Please remember to remove all identifying information (author names, agencies, universities, etc.)

Questions regarding the abstract or paper submissions can be directed to the Aerospace Division Program Chair, Dr Tracy Yother, Purdue University by email: [tyother@purdue.edu](mailto:tyother@purdue.edu).

Further details on Paper Management, Conference, Travel, Program Schedule and Registration can be found at ASEE’s 2022 Annual Conference and Exposition website: <https://www.asee.org/annual-conference/2022>

### **Important Dates:**

- Abstract Submission Open – October 11, 2021
- Abstract Submission Due – November 8, 2021