

2021 Call for Papers

The **Materials Division** of the American Society for Engineering Education (ASEE) is soliciting papers for the **2021 ASEE Annual Conference** being held in Long Beach, California from June 27-30, 2021. The mission of the ASEE is to advance “innovation, excellence, and access at all levels of education for the engineering profession.”

The materials division invites abstracts and subsequent papers that address issues relevant to materials education including, but not limited to:

- Online learning strategies for materials education: promotion of student engagement, development/use of simulation tools, adaptation of laboratory/hands-on activities, etc.
- General innovations in materials education: active learning, project-based learning, problem-based learning, etc.
- Application of materials concepts in the context of other disciplines: integration of materials education in design projects or typically non-materials courses
- Personalized learning: strategies to connect materials content to student interests and/or customize content to individual student needs
- Academia-industry interaction: collaborative efforts with industry partners, entrepreneurship, use of case studies in curriculum design, etc.
- Incorporation of technology and computational tools in the materials classroom
- Innovations and best practices in introductory materials courses
- Introducing topics of sustainability and life-cycle within materials curriculum
- Materials in K-12 education and outreach

Papers will be accepted on a publish-to-present basis. Works in progress are welcomed but should be denoted as such when submitting an abstract.

Abstracts should be submitted via the ASEE submission and paper management system. At least one author for each accepted paper is required to register for and present the paper at the conference.

Information for authors, including due dates for abstract and paper submission, can be found on the ASEE website: <https://www.asee.org/annual-conference/2021/paper-management/for-authors>

Special Session: Activities with Impact! Following the success of the inaugural “activities with impact” session at the 2020 virtual conference, the materials division will present a postcard session on classroom demonstrations, in-class (or online) activities and hands-on materials investigations. Participants will prepare a short video to show their activity/demo followed by a group discussion. *Those interested in participating should email a short abstract directly to the program chair (Lessa Grunenfelder, grunenfe@usc.edu).*

For further information, contact Lessa Grunenfelder, Program Chair, grunenfe@usc.edu or Alison Polasik, Division Chair, polasik@campbell.edu