

2017 Call for Papers

THE MATERIALS DIVISION is soliciting papers describing innovations in materials science and engineering education. Creativity in the educational materials and the learning experiences provided to students, as well as the assessment of these activities, are hallmarks of our papers. Papers focusing on one of the following areas are especially requested:

- Curriculum Implementation of Emerging Materials: Integration of materials for sustainability, biomaterials, nanomaterials, and other innovative materials into laboratories and courses in undergraduate programs.
- Innovations in Materials Education: active learning, approaches to integrating design, project-based learning, innovative collaborations, joint degrees, interdisciplinary study, certificate programs, partnerships between community colleges and four year schools, and international collaborations.
- Best Practices for Introduction to Materials Courses: New ideas for teaching introductory materials science lecture and/or lab courses. Unique labs or other hands on demonstrations for materials engineering.
- Materials Education for non-Materials Scientists: Innovative ideas for teaching concepts to students whose main focus may not be on materials behavior.
- Materials Education Outreach: New efforts in promoting materials education at the K-12 level through formal and informal learning experiences.

Papers will be accepted on a publish-to-present basis. Proposals for workshops or panel discussions will also be considered. For further information, contact Matthew Cavalli, Program Chair, matthew.cavalli@engr.und.edu, or Cindy Waters, Division Chair, kwaters@ncat.edu.