

2016 ASEE Annual Conference & Exposition New Orleans, LA June 26-29, 2016

Systems Engineering Division (SED) Call for Papers

The Systems Engineering Division (SED) invites proposals for tutorial/workshops, abstracts for papers, and proposals for full sessions (4 papers), and panel discussions for the 2016 ASEE Annual Conference, June 26-29, 2016 in New Orleans, LA. The SED promotes systems engineering education and systems thinking at all levels of education, and for different delivery modes including distance education, hybrid and traditional classroom delivery. The SED is looking for papers that address many aspects of systems engineering education, including but not limited to:

- ✓ New or innovative approaches for teaching systems engineering.
- ✓ Collaborative efforts and initiatives with industry or government partners.
- ✓ Real-world systems engineering: Development, design, and/or implementation.
- ✓ Capstone projects and experiences focused on the systems engineer practitioner.
- ✓ Integration of systems engineering across one or more other disciplines.
- ✓ K-14 systems engineering education and educational outreach.
- ✓ Project-based, problem-based and team-based systems education.
- ✓ Systems education for all engineers; systems education for non-engineers
- ✓ Role of systems engineering education in preparing learners to solve complex problems.
- ✓ Strategies and lessons learned related to developing systems engineering curriculum.
- ✓ Systems engineering assessment methods, competency development, and certification.
- ✓ Systems engineering of software-intensive systems including cloud-based systems.
- ✓ Use of systems engineering modeling, simulation, methods, and tools in the classroom.
- ✓ Graduate Reference Curriculum for Systems Engineering (bkcase.org/grcse).
- ✓ Systems Engineering Body of Knowledge (sebowiki.org).
- ✓ Mechatronics Engineering and Engineering. Technology
- ✓ Visions and roles for systems engineering education.
- ✓ program/curriculum development,
- ✓ collaboration with the industry, internships, certifications,
- ✓ progression from high school, 2-year institutions, to 4-year programs

Submissions are welcome from any discipline that leverage systems engineering principles either to develop curriculum or as part of the curriculum. All paper submissions are publish-to-present.

Submission may include classroom applications, exploratory topics, research reports, and works in progress. Abstracts shall be 250-350 words in length. Paper submission is a two-step review process consisting of an abstract submission, review and potential acceptance, followed by a full manuscript submission, review and potential acceptance. Both the abstract and the final paper must be accepted to present at the conference and for inclusion in the conference proceedings. At least one author for each paper is expected to register for and present at the conference.

Submission guidelines and deadlines, along with other pertinent information, are available at the ASEE 2016 Annual Conference website.

Proposals are welcomed for workshops and discussion panels. Presenters should directly contact Mr. Oscar Salcedo, Systems Engineering Division Program Chair, at salcedo@utep.edu.