

What presentation options do I have?

Oral presentation: K-12 and Pre-College Division schedules numerous technical paper sessions where each paper will have a time slot of approximately 10 minutes. Depending on the number of paper submissions and sessions awarded, these time slots have ranged from 7 to 15 minutes at past conferences.

Poster presentation: The Division will participate in the ASEE Poster Session; if you prefer to do a poster presentation, you should indicate this with your abstract title (Poster -- My Descriptive Title).

Panel sessions: Two special Best Practices Panel sessions are being arranged for the 2011 Annual Conference. See below for more information.

Curriculum exchange and demonstration: A curriculum sharing session that is an excellent choice if someone has a new, exciting, successfully implemented activity but does not have the assessment needed for a paper or just wants to share the activity. See below for more information. An abstract submitted to the curriculum exchange should use "Exchange -- My Descriptive Title" in the title.

What should be in the abstract?

The abstract needs to sufficiently describe your study or project so that the Program Chair and peer reviewers can determine that the paper will fit the objectives of the Division.

Your abstract should address the following:

Background and motivation;

What was done? (Methods used and why?);

Results (include some data and/or analysis; what was found?);

Conclusions and significance (including wider application); and

You should NOT include references in the abstract.

You should NOT include authors' names in the abstract; the uploaded abstract should be completely blind/anonymous. Names and institution are only used on the Monolith page.

Is there a word limit on abstracts?

No, neither ASEE nor the K-12 and Pre-College Engineering Division formally limits the number of words of the abstract. However, out of consideration to the Program Chair and abstract reviewers please try to keep the abstract to less than one page.

What is meant by blind submission?

All identifying information (author's name, institution, program specific names) should be removed from the abstract and paper text. Your contact information is entered separately into the paper management system. This ensures that reviewers do not know whose work they are reviewing.

How are abstracts and papers evaluated?

K-12 and Pre-College Engineering Division uses an evaluation rubric when reviewing abstracts and papers. The questions included in the evaluation are:

Does/Is the paper -

Report on a well-designed study?

Involve the reporting and analysis of meaningful data / evidence?

Of interest to K-12 Division members?

Add meaningfully to the body of knowledge?

Well written and easy to read?

Reviewers are asked to assign a score from 1-5 (5=highest) for how well a paper meets each criteria. Obviously an abstract is judged on whether the probability is high that the required features will appear in the ensuing paper.

What do you mean by a well-designed study?

A well designed study is one that intentionally collects data, either quantitative or qualitative, to answer a research question or test a hypothesis.

What if I have something unique and exciting, but we have only done it once and have data from only a few participants?

K-12 and Pre-college Division encourages the submission of highly innovative programs or strategies with appropriate evaluation or assessment. While we expect more than: "the participants liked it," or "I learned a lot and will make changes," the division does not require robust statistical analysis or statistical significance for publication of results.

Do I have to submit a paper?

All divisions in ASEE are now Publish to Present. Whether you are submitting for a poster or an oral presentation, your abstract will not appear in the proceedings and remain scheduled if you do not submit a final paper. ASEE also requires payment of the publication fee and at least one author registration. Special Panel Sessions will have a paper compiled and submitted by the program chair or panel organizer.

Does K-12 and Pre-college Division have a Best Paper Award?

Yes! Paper reviewers designate papers they believe to be worthy of a Best Paper Designation. A committee of the executive committee will review the papers and select one to be put forward to PIC IV and hopefully to ASEE for the conference Best Paper Award. The K-12 and Pre-College division recognizes the authors of our divisional Best Paper Award with a certificate at the business meeting.

K-12 and Pre-College Engineering Division Special Sessions

Curriculum Exchange and Demonstration

In 2010, we offered the inaugural curriculum exchange poster session. . The Division is again seeking teachers, faculty, and industry collaboration in demonstrating, sharing, and exchanging examples of engaging engineering curriculum, lessons, and design problems that have been implemented successfully in the K-12 classrooms. Logistic difficulties with having tables at the poster session lead us to anticipate having a curriculum exchange as a regular technical session. Our expectation is that we will request a room with tables (similar to division business meeting space) so that presenters can have demonstrations or small activities to share with attendees, along with some sort of table top display or handout. The exact details of how this will play out are dependent on how many submissions under this category we get and what ASEE will let us do. We do know that you will need to indicate that you wish to present in the curriculum exchange in your abstract title - "Exchange - My Title". You will still have to submit a paper, but in this case the paper will consist of the curriculum or lesson plans, any assessments that are suggested for use with it, and a description of the context in which it has been tested.

Best Practices in K-12 and University Partnerships

The Division will sponsor the third annual panel session on Best Practices in K-12 and University partnerships. Submissions chosen for participation in this session will demonstrate a true partnership between a K-12 school (or schools) and an engineering school/college at a university. Submissions for this panel session are outside the usual ASEE paper submission process. A specific call will be sent to division members soon. Based on the previous years' calls, the anticipated requirements will be:

- Partnerships with *proven success in the classroom*
- Will demonstrate *engineering engagement and knowledge acquisition* by K-12 students through age appropriate activities and lessons
- Submissions authored collaboratively between engineering and technology education faculty and K-12 teachers are encouraged.
- Details on *the partnership's structure and goals* and *the successful strategies employed to overcome challenges and obstacles* must be included.

Best Practices in K-12 Engineering -- Assessments of Participant Outcomes

The Division will solicit nominations and applications from individuals or groups with strong assessment practices in place. Nominations, including self-nominations, are solicited from K-12 division members and collected through searches of the extant literature. A selection committee will review the nominees and request submission packets from prospective panelists. The packets should include:

- assessment plans or design strategies and a discussion of the decisions informing them,
- assessment instruments, tools, or protocols, and
- sample or summary analyses of data.

For both Best Practices Panels

A review committee comprised of members of the K-12 division executive committee will review the applications and select the exemplars. A representative from each project selected will be invited to be a panel member during a special session of the conference. During the 1.5 hour session, each representative will have time to describe their project's partnership or assessment strategies. The remaining time will be for discussions with the audience. A single paper will be submitted by the organizer of the special session including the submissions of the panelists. Limited funding for honoraria may be available for Panel selectees.