



K12 and Precollege Engineering Division Report **June 2015**

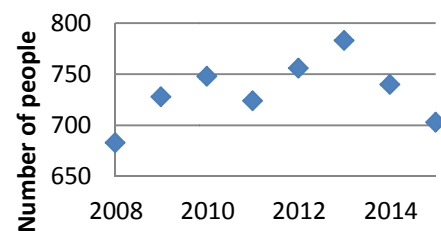
Division Accomplishments:

- ✓ K12 division membership remains strong with 703 members, representing 5.9% of ASEE members.
- ✓ K12 memberships within ASEE continue to rise, with 214 members currently. This year all K12 Saturday Workshop registrants automatically will receive a K12 membership and vastly increase this number.
- ✓ K12 has one of the largest programs at the 2015 Annual Conference.
- ✓ We had 202 abstracts and 149 draft papers submitted for review and 116 papers finalized for the program! Each paper received 2-3 independent blind reviews. A heartfelt THANKS goes out to the 190 members who reviewed. 75 orally presented papers and 17 posters are scheduled into 20 technical sessions and the division's poster session. Additionally, the 5th annual Curriculum Exchange will host 23 presenters.
- ✓ The division has long had a Research to Practice strand of papers that looked at intervention-based K-12 engineering education research. This year we added a Fundamental category for papers to capture basic research in understanding the dynamics of teaching and learning in PK-12 engineering education. We also added an Evaluation category to encourage projects and programs to share implementation details and evaluation data. We had 19 Evaluation papers, 28 Fundamental papers and 28 Research to Practice papers.
- ✓ The Division will hold a panel session entitled Frontiers in PK-12 Engineering Education on Tuesday at 5:45-7:15 pm (T633C, Sheraton Seattle Ravenna A) to discuss current issues, ask questions of experts, and provide a networking opportunity for division members.
- ✓ This year's conference features a special session for the Best Paper, co-hosted and moderated by the Journal of Pre-College Engineering Education Research (JPEER). The session will be held Session on Tuesday, June 16 at 8:45 AM (T233, Sheraton Seattle, Willow B).
- ✓ The division hosted an ASEE K12 booth at the ITEEA Conference in March. Numerous division members served in 2-hour windows in the booth.
- ✓ Members of the division hosted Engineering Days at each of the three NSTA Regional Conferences this past fall serving thousands of teachers at these conferences.
- ✓ The diversity committee has been active this year, making proposed changes to our by-laws that will be voted on at the annual business meeting.
- ✓ Standards for the professional development of teachers of engineering were created along with a matrix to help users describe the emphasis of their programs. The standard and matrix, along with a literature summary, is available on ASEE's website and in J-PEER.
- ✓ The division partnered with HQ to host the 12th annual K12 Workshop on Saturday, June 13, in Seattle.
- ✓ The division partnered with the ASEE Board of Directors Diversity Committee to sponsor the Diversity Booth at the annual conference.

Division Mission and Vision

The Division strives to provide a focus for development of innovative K-12 engineering education curricula and delivery approaches and a forum for the presentation and sharing of K-12 engineering educational initiatives and methods; create a vital community engaged in K-12 engineering initiatives; encourage the professional development of teachers in K-12 engineering education methodologies; increase awareness and participation of university faculty and industrial educators/partners in K-12 engineering initiatives; promote engineering as the context to integrate science and mathematics with all subjects in the K-12 setting; encourage the participation of K-12 educators in the creation and delivery of K-12 engineering content; and, synthesize and broadly disseminate lessons learned.

K12 Division Membership



Contact

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