
Call for Papers

Journal of SMET Education: Innovations and Research

Special issue on Resources for Pre-college Education

Guest Editor: Steve E. Watkins, University of Missouri-Rolla

A strong workforce in science and engineering and literate citizens in a technological-based society depends on an educational system that prepares students in science, mathematics, and engineering. Unfortunately, many K-12 students lose interest in such topics early in their school years. They may avoid technical classes and careers and develop the unwarranted feeling that science and mathematics are too hard. Consequently, pre-college outreach that targets high school and middle school students may be too late in the educational process. Primary teachers can benefit from resources and technical partnerships that assist them in incorporating stimulating examples and content into their science and mathematics instructions.

This special issue of the *Journal for SMET Education* will focus on the technical education for the early grades K-6. Papers that readers can use as models and inspiration for effective pre-college outreach are strongly encouraged. The content should document resources for primary education, provide supporting materials, and discuss implementation or success in the classroom. Topics include:

- Innovative lesson plans and resources for science and mathematics instruction
- Engineering-related activities illustrating science and mathematics concepts
- Demonstrations, experiments, and activities appropriate for primary children
- Partnerships between college faculty and in-service primary teachers
- Pre-college activities of faculty and students in technical institutions
- SMET training for primary teachers
- Activities that stimulate student interest in technology
- Lessons learned in long-term, sustained outreach programs
- Educational research relating to technical literacy in the primary classroom
- Resources that improve understanding of technical careers

Deadlines:

Manuscript Submission: November 15, 2003

Notification of Acceptance: June 2004

Final Manuscript due: September 2004

Tentative Publication Date: December 2004

Submissions can be sent by mail to Janice Drummond, Department of Mechanical Engineering, 201 Ross Hall, Auburn University, AL 36849, or by E-Mail to steve.e.watkins@ieee.org with a copy to drummje@eng.auburn.edu. Information on the format to be followed for publication in the *Journal for SMET Education* can be found at <http://www.jsmet.org>. Authors are requested to suggest four potential reviewers.

The Special Issue Guest Editor is:

Dr. Steve E. Watkins, Electrical and Computer Engineering Department

University of Missouri-Rolla, Rolla, MO 65409-0040 USA

Telephone: 573-341-6321 E-mail: steve.e.watkins@ieee.org