

# International Conference on Engineering Education and Research iCEER-2004, Bouzov Castle, Czech Republic, June 27-30, 2004

## CALL FOR PAPERS #6

### LEARNING TO DESIGN AND CONDUCT EXPERIMENTS

Papers are solicited on concepts, strategies and examples concerning how to teach students to design and conduct experiments. The focus is on the teaching and learning the methodology of designing a physical experiment. This includes estimating parameters to be measured, selecting sensors, transducers and other measurement instrumentation, developing experimental procedures, following procedures, and analyzing and reporting results. Papers that describe tested models of teaching and learning how to design experiments and decision making in the engineering laboratory are especially welcome. Other topics of interest include but are not limited to statistical design of experiments, robust design, design-state uncertainty analysis, assessment of the student's ability to design experiments, and the design and conduct of virtual experiments through simulations and/or control of remote instrumentation. Case studies of projects where students design experiments to measure temperature, pressure, flow, strain, motion, force, signal characteristics, or any other engineering quantity are also welcome.

This conference emphasizes development of international partnerships in education and research. Through special sessions and international workshops, it provides ample opportunity for discussing future cooperative projects.

#### IMPORTANT DATES:

- January 15, 2004:** Abstract due (submit through website indicated below, with e-mail to Session Chair. Be sure to begin the text of your abstract with the title of this session)
- February 10, 2004:** Notice of preliminary acceptance
- March 15, 2004:** Paper submission deadline
- March 15, 2004:** Early registration deadline (required for final acceptance of papers)
- March 15, 2004:** Deadline for authors' registration to ensure publishing of submitted papers
- April 15, 2004:** Notice of final acceptance based on peer review (Registration fees will be refunded if papers are not accepted)

Further information is available at the iCEER-2004 web site:

<http://www.fs.vsb.cz/akce/2004/iceer/index.htm>

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