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

## CALL FOR PAPERS  #7

## NEW TRENDS FOR ONLINE LABORATORY EXPERIMENTATION

With the accelerated development of information technologies, there is an increasingly wide range of ways of reaching students who are geographically dispersed, of remotely accessing real laboratory equipment, of displaying and visualising personalised distributed user interfaces and of running real time simulations over computer networks. Sessions will cover research challenges in the following areas: Instrumentation and control systems, Shared collaborative learning environment architectures and their components, Communication protocols, software, middleware, hardware, drivers, Application Programming Interface (API) and devices used to access distributed laboratory environments and equipment, Management policy, Mobile and location awareness systems, Heterogeneous wireless, satellite, terrestrial networks that make it possible to connect various geographically distributed devices and human actors.

The session committee particularly welcomes papers dealing with the technological challenges regarding infrastructures supporting Online Laboratories (virtual or simulation-based or remote laboratories accessing real devices) : 1) The emergence of GRID-based laboratories; 2) Integration of laboratory infrastructures and devices via ad hoc wireless or satellite/terrestrial communication systems; 3) Remote control over noisy computer networks with delays; 4) Norms and standards used or to consider in order to achieve the overall goal of a World-wide Integrated Online Laboratory.

## 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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