



## **Twelfth International Congress on Mathematical Education (ICME-12)**

### **Worldwide trends in mathematics education research and practice at all levels.**

#### **Improving the quality and professionalism of mathematics education through international cooperation, research, and exemplary cases.**

ICME-12 will bring together researchers, teacher educators, practising teachers, mathematicians, and others interested in the field of mathematics education from all over the world to discuss the state of the art of research and practice in mathematics education.

ICME-12 will be held in Seoul, Korea from July 8-15, 2012 at the COEX Center in Seoul.

The Congress serves two major functions. It provides a scholarly opportunity for discussion, debate, and the presentation of new research and theory and is, at the same time, a meeting place for the international community of mathematics education: mathematicians, teachers, policy-makers, resource producers and distributors, as well as mathematics educators and researchers.

“The scholarly aspect of ICME is represented by the Plenary Lectures, Survey Teams, Regular Lectures and Topic Study Groups, and other forums” says conference Chair Sung Je Cho, a Professor at the Department of Mathematics Education at Seoul National University. “Inclusiveness within ICME is obtained in many forms. Everyone who wishes to attend is welcome, and all who wish to present will be given some opportunity to do so. A solidarity fund assists delegates from non-affluent countries to attend the conference.”

The need for improving quality, equity and access to mathematics education is undisputed in the knowledge-based societies of the 21st century. Mathematical thinking and knowledge play a key role in providing tools for understanding science, engineering, technology and economics and are essential in public decision-making and for participation in our societies.

As well as forums on mathematics education at each level, and key contemporary issues such as technology in mathematics education and teacher education, the conference will cover topics such as teaching and learning of statistics, cultural issues, number systems and arithmetic, gender and mathematics education, language and communication, modeling, applications, geometric thinking and reasoning, socio-economic influence on students' achievement, mathematics education in and for work, curriculum development, assessment and testing, and many other topics. It will also be a place to launch recent ICMI Study volumes that present the contemporary state of the art on particular topics.

The programme includes plenary sessions, presentations of survey teams, topic study groups, regular lectures, discussion groups, poster sessions, workshops, sharing experience groups, national presentations, affiliated study groups, exhibitions, as well as various social events.

The congress is held under the auspices of ICMI (International Commission on Mathematical Instruction).

The panel lectures will be given by Jo Boaler (UK), Werner Blum (Germany), Etienne Ghys (France), Bernard R. Hodgson (Canada), Don Hee Lee (Korea) and Mamokgethi Setati (South Africa).

#### **Felix Klein and Hans Freudenthal Awards**

In addition, two prizes will be awarded to pay tribute to outstanding scholarship in mathematics education. The **Felix Klein Award**, named after the first president of ICMI (1908-1920), honors a lifetime achievement. The **Hans Freudenthal Award**, named after the eighth president of ICMI (1967-1970), recognizes a major cumulative program of research. The awards consist of a medal and a certificate, and are accompanied by a citation. Additionally the awardees are invited to present special lectures at the Congress. As the awards are given out every two years, the recipients of the 2009 and 2011 awards will be presented at ICME-12.

#### **Additional Information Available on the Web**

For more information on the conference, including grants see the conference Web page at:  
<http://www.icme12.org/>

For more information about the Prizes, visit  
<http://www.mathunion.org/icmi/other-activities/awards/>

For more information about ICMI, visit:  
<http://www.mathunion.org/icmi>



ICMI is a commission of the International Mathematical Union (IMU), an international non-governmental and non-profit-making scientific organisation and aims to provide a link between educational researchers, curriculum designers, educational policy makers, teachers of mathematics, mathematicians, mathematics educators and others interested in theory and practice of contemporary mathematical education around the world.