

CALL FOR PAPERS

CERME8: Working Group 6 - Applications and modelling

CERME8 (The Eighth Congress of the European Society for Research in Mathematics Education) will take place at Antalya, Turkey: 6th to 10th February 2013 (<http://www.cerme8.metu.edu.tr>). As usual the conference will be organised around working groups. We call for papers to the working group on the teaching and learning of applications and modelling (Working group 6).

Leaders

Thomas Lingefjård (Sweden), Thomas.Lingefjard@gu.se
Susana Carreira (Portugal), Gabriele Kaiser (Germany), Geoff Wake (Great Britain)

Scope and Focus of WG6

The aim of the working group is to provide a forum for the presentation and exchange of research, information, experiences, and ideas relating to the teaching, learning and assessment of mathematical modelling, mathematical models and applications of mathematics at primary, secondary and tertiary levels.

Call for papers and poster proposals

In Working Group 6 we welcome theoretical, methodological, empirical or developmental papers on the teaching and learning of applications and modelling (10 pages maximum) and poster proposals (2 pages) on issues such as the following, although any paper/poster of relevance to the overall focus of the group will also be considered.

The paper should raise one of the following issues:

- Pedagogical issues, such as the understanding of modelling, promotion of modelling competencies, modelling examples, cognitive aspects, socio-cultural aspects;
- Epistemological aspects, e.g. concerning the understanding of modelling, components of modelling, balance between theory and practice; critical thinking and mathematical modelling;
- Curricular reflections such as the balance between applications and modelling activities and other mathematical activities, mathematical connections through applications and modelling, links between modelling and mathematical problem solving, interdisciplinary approaches;
- Affective aspects such as beliefs and attitudes of teachers and students towards applications and modelling;
- Formative and summative assessment of modelling activities in school and universities using for example essays, written reports or project work;
- Connections to industrial or commercial practice, mathematics in the workplace;
- Influences of technology such as new opportunities for realistic applications, classroom materials for the use of computers and calculators;
- Cross-cultural aspects and international studies.

Papers and poster proposals should use the CERME8 WORD template, and conform to the guidelines at http://www.cerme8.metu.edu.tr/author_guidelines.html

To submit the paper, please email your paper as a WORD document to Thomas Lingefjård at Thomas.Lingefjard@gu.se AND at the same time to the conference secretariat at accerme8@metu.edu.tr

If possible please also send a pdf version *in addition* to the WORD document.

Reviews and Decisions

Each paper will be reviewed by three peers who have submitted papers to this Working Group. Please expect to be asked to review up to three papers yourself between 15th September and 22nd October 2012. It may be necessary for you to revise your paper before final acceptance. Please reserve some

time to do this in the second half of November. The group leaders will decide about the acceptance of posters.

Important dates

- 15th September 2012: Deadline for submission of papers
- 1st October 2012: Deadline for submission of poster proposals
- 22nd October 2012: Deadline for reviewers to submit their reviews
- 15th November 2012: Decisions about paper or poster acceptance
- 1st December 2012: Deadline for revisions to papers
- 15th December 2012: Papers for presentation at the congress available on the congress website