

CERME 9: Thematic Working Group 6

Applications and Modelling

Leaders

Susana Carreira (Portugal), spcarreira@hotmail.com

Berta Barquero (Spain), Gabriele Kaiser (Germany), Thomas Lingefjard (Sweden), Geoff Wake (United Kingdom)

Scope and focus of the Thematic Working Group

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 and applications of mathematics at primary, secondary and tertiary school levels and teacher training.

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;
- 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 CERME word template, and conform to the guidelines at <http://www.cerme9.org/guidelines/guidelines-for-authors/>. To submit it, you need to email your paper as a WORD document to spcarreira@hotmail.com, AND at the same time to the conference secretariat at submission@cerme9.org. If possible please also send a pdf version in addition to the WORD document.

Reviews and decisions

Each paper will be peer-reviewed by two persons from among those who submit papers to this thematic Working Group. Please expect to be asked to review up to three papers yourself. It may be necessary for you to revise your paper before final acceptance. The group leaders will decide about the acceptance of posters.

Important dates

September 15, 2014: Deadline for submission of papers

October 1, 2014: Deadline for submission of poster proposals

November 25, 2014: Deadline for reviewers to submit their reviews

December 5, 2014: Decisions about paper or poster acceptance

December 20, 2014: Reduced fee registration deadline

January 10, 2015: Deadline for revisions of papers

January 20, 2015: Papers for presentation at the congress available on the CERME website