



TSG 59 CREATIVITY AND MATHEMATICS

The organizing team

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The major goal of the TSG is *to gather educational researchers, research mathematicians, mathematics teachers, teacher educators, instructional designers and other congress participants for the international exchange of ideas directed at better understanding of creativity in mathematics and mathematics education. The TSG gathering will be framed by the discussion of the two contrasting perspectives on the nature and nurture of creativity: individualistic vs. social.*

We will ask:

- Does it make sense to perceive creativity:
 - ✓ as emerging from the individual or from dialog, brainstorming and co-construction?
 - ✓ as yielding grand intellectual feats or as an everyday occurrence in each of us?
- How is it best to design situations with dense potential for creativity emergence:
 - ✓ by orchestrating diversity or homogeneity in educational settings?
 - ✓ by focusing within the discipline or promoting interdisciplinary?
- How can we best understand and support creativity in teachers, teacher designs and the teaching process? By addressing the mathematics teacher:
 - ✓ as an individual
 - ✓ as an actor in a homogeneous community of practice
 - ✓ as an actor in a diverse community of interest including members from outside mathematics education