



TSG 9

TEACHING AND LEARNING OF GEOMETRY AT SECONDARY LEVEL

The Organizing Team

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TSG 9 provides a forum for researchers, developers, and educators concerned with the teaching and learning of geometry at the secondary school level. Geometry continues to hold a major place within the secondary school mathematics curriculum. Moreover, it is a source of out-of-school problem solving and is connected with numerous activities such as sports and art. With its reasoning and spatial aspects, geometry features in teacher preparation and the wider workplace. Our topic study group welcomes scholars and practitioners concerned with geometry across those and other settings, including colleagues working with digital and traditional technologies, those interested in geometrical modeling, and those developing new forms and applications of geometry. TSG 9 aims to bring together conference participants to share research results, research projects, new developments, and updates on ongoing projects concerning geometry at the secondary school level. Discussions are likely to focus on the following themes:

- Curricular issues in school geometry, including reform initiatives in school geometry, and new forms and applications of geometry;
- Developments in teaching, including geometrical modeling and out-of-school problem solving;
- Connections between geometry education and mathematical practices and processes such as argumentation and proof, visualization, figuration, and instrumentation;
- Teacher preparation and teacher knowledge for geometry at the secondary school level.

We aim to include discussions of secondary school geometry from various perspectives (historical, epistemological, cognitive, semiotic, sociocultural, and so on) through short presentations, paper discussions, posters by participants, together with longer presentations. Scholars interested in participating in TSG 9 are invited to contact the TSG 9 Team Members. Details of the submission procedure, and associated deadlines, are available on the ICME-14 website.