

NATIONAL & INTERNATIONAL INVESTMENT STRATEGIES FOR MATHEMATICS EDUCATION

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Mathematics education is an essential pathway for economic security and technological advancement at the national, community, and individual levels. There is world-wide impetus for innovation and improvement of mathematics curriculum and pedagogical practices that meet local and practical needs. Input from practitioners is essential for policy makers and research funding organizations to navigate the path forward. As a major international conference for international mathematics education, ICME13 is an excellent venue to engage educators with national and regional policymakers. We will explore the following global issue:

What is the appropriate role of funding agencies, ministries, and related institutions in influencing and advancing improvements in mathematics education research and policy, as well as in facilitating international research in mathematics learning?

Key questions will include: How should organizations set priorities for mathematics education research and policy that connect to local and practical needs? How can scientific communities contribute to processes of strategic planning and agenda setting in funding agencies? What kind of international collaborations might be useful?

Tuesday, 16.30-18.00: Session I – Setting Directions and Priorities		
16:30-16:40	Session I Introduction	Joan Ferrini-Mundy, Ph.D.

16:40-17:05	Increasing the pipeline of women mathematicians as an enabler for innovative and sustainable solutions to Africa and the world's challenges	Thierry Zomahoun
17:05-17:30	Funding for mathematics education improvement at the US National Science Foundation: A portfolio approach	Joan Ferrini-Mundy, Ph.D.
17:30-18:00	Group Discussion	Marcelo C. Borba, Ph.D.

Friday, 16.30-18.00: Session II – Informing policy		
16:30-16:40	Review of Session I	Joan Ferrini-Mundy, Ph.D.
16:40-17:05	Policy recommendations in education from the German Council of Science and Humanities	Manfred Prenzel, Ph.D.
17:05-17:30	The implications for theory and practice in mathematics education: Experiences from the Japanese National Assessment of Academic Ability	Fumi Ginshima
17:30-17:50	Group Discussion	Marcelo C. Borba, Ph.D.
17:50-18:00	Synthesis of the discussion	Marcelo C. Borba, Ph.D.