

THE INSTITUTE'S MISSION

To support local, national, and international projects in mathematics education that focus on both the mathematics and the students, can be applied to current needs, build on existing knowledge, and are grounded in the work of educators.

THE INSTITUTE'S VISION

To build capacity for collaboration, store institutional knowledge about collaboration, and coordinate the expertise of different professional cultures to address a critical concern of our time – the mathematical education of future scientists, engineers, workers, citizens and leaders.

The Institute for Mathematics and Education is partially supported by funds from the University of Arizona Provost's Research Initiative Fund, the College of Science, and the College of Education.

INSTITUTE FOR MATHEMATICS AND EDUCATION

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Institute for Mathematics & Education



Building collaboration
among mathematicians,
educators, and policy
makers since 2006.

UA SCIENCE

The University of Arizona
College of Science



A commitment to collaboration.

Because the problems of mathematics education cannot be solved by one group alone, we bring together participants from communities that are sometimes worlds apart: mathematics departments, colleges of education, school systems, government agencies, business, and commercial and nonprofit education organizations.



When people from different parts of the mathematics community – teachers, mathematicians, educators – work together doing mathematics, everyone benefits. In addition to the mathematical experience, they learn about each other's professions, cultures, and values.

AL CUOCO
Director, Center for Mathematics Education, EDC

Innovative and engaging programs.

ARIZONA TEACHER INITIATIVE

Developing a part-time three year Master's degree in Middle School Mathematics Leadership for current elementary certified middle school mathematics teachers.

KNOWLEDGE FOR TEACHING MATHEMATICS

Conducting research into the mathematical and pedagogical knowledge necessary for teaching secondary school.

MAKING CONNECTIONS

Developing models for collaboration between mathematicians, mathematics educators, and teachers.

MATH CIRCLES

Promoting interactions between secondary school students and mathematicians through weekly problem-solving sessions.

INTEL® MATH

Pairing mathematicians and mathematics educators to provide mathematics content-knowledge based professional development for K–8 teachers.

TUCSON TEACHERS' CIRCLE

Bringing together teachers and university faculty members to engage in problem-solving and to share classroom experiences.

G-TEAMS

Pairing University of Arizona graduate students in the mathematical sciences with K–12 mathematics teachers and their students.

Programs supported by the National Science Foundation, The University of Arizona, The Intel Foundation, and private donors.

The need has never been greater.

Mathematics is crucial for innovation in science, technology and engineering, competitiveness in a global workforce, and informed participation in democratic government.

Building the capacity to strengthen the mathematics learning of our youth is an urgent national priority. With widespread agreement about the need, we have an unprecedented opportunity to develop the human and intellectual resources required to reach the goal of a high quality mathematics education for every student in our schools. IM&E is poised to play a special role in bringing together the expertise needed to build this capacity.

DEBORAH LOEWENBERG BALL
Dean, School of Education, University of Michigan



THE INSTITUTE'S RESPONSE

- Collaboration among mathematicians, educators, and policy makers.
- Policy retreats that advance the mathematics education of K–16 students.
- Short term residential programs for visiting scholars.
- Workshops that challenge and inspire the mathematics and education communities.