



# Maine MATHEMATICS and SCIENCE Alliance

Teachers Make the Difference for Students

Founded: 1992  
Status: 501(c)3 Nonprofit  
For more information contact:  
MMSA  
PO Box 5359  
Augusta, ME 04332  
HYPERLINK  
"http://www.mmsa.org"  
<http://www.mmsa.org>  
207-287-5881

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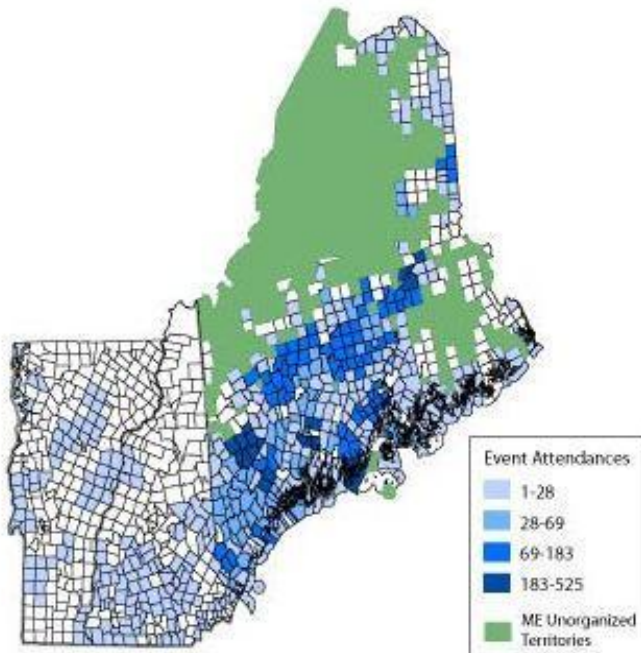
The Maine Mathematics and Science Alliance (MMSA) endeavors to enhance science, technology, engineering, and mathematics education to elevate student aspirations and achievement, so all students will meet or exceed state and national standards. The MMSA has successfully raised over \$25 million in grants and contracts from sources outside Maine to support students, teachers, schools, and districts.

## Our Goals

- The MMSA will provide and conduct research, development, and implementation strategies supporting excellence in STEM curriculum, instruction, and assessment.
- The MMSA supports educators at all stages of their careers contributing to the recruitment, retention and renewal of qualified STEM teachers.

## Highlights of 2006-2007 Results

- 69 Districts as partners in grant programs.
- 1,583 teachers reached in MMSA programs.
- 95 Teacher Leaders leading professional development in their districts.
- 75% increase in mathematics and science teacher candidates.
- Significant student achievement gains in mathematics and science through MMSA district based programs.
- \$100,000 in scholarships for undergraduates.
- 5 nationally published books for science and mathematics.



MMSA Professional Development Attendance  
FY 2005-2007

## Our Beliefs

- Strong mathematics and science content knowledge and the skills of inquiry and problem solving.
- Data-informed planning and decision making.
- Research based instructional practice and professional development.
- Equity of opportunity.
- Rigorous alignment with state and national standards.

## National Participation

MMSA also has linkages to districts, schools, students and regional and national organizations.

## Current Programs

- Academy of Mathematics Leadership (AML)
- BioMed Works
- Building Access for Leaders and Administrators and the Numeracy Capacity of Educators (BALANCE)
- Creating a Network of Educators to Communicate about Teaching Math (CNECT – Math)
- Curriculum Topic Study (CTS)
- Early Mathematical Thinking (EMT)
- Earth as a System is Essential – Seasons and the Seas (EaSiE-SS)
- Genomics Inquiry through Quantitative Trait Loci Exploration with SAIL Technology (GeniQuest)
- Linking Science Inquiry and Language Literacy (LSILL)
- Maine Energy Education Curriculum Project
- The NNECN Center
- Phenomena and Representations for Instruction of Science in Middle Schools (PRISMS)
- Science Content and Conceptual Change Collaborative (SC4)
- Science Curricula Integrating Technology and Engineering Connections (SCITEC)
- STEM Initiative, including the STEM Summit