

Center for Research in Mathematics and Science Education

North Carolina State University, Raleigh, <http://www.ncsu.edu/crmse/>

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Mission: To improve the teaching and learning of mathematics and science with research and development

Diversity and Equity Among Underrepresented Groups in STEM

- **Pre-College Program** – Year-round enrichment program for 450 students in grades 6-12 in Wake County and Johnston County.
- **Girls on Track** – NSF funded program for 220 middle school girls, 60 teachers and 16 guidance counselors. Continuation of the summer camp program will continue in Summer 2003 for 40 girls.
- **Women and Information Technology** – NSF funded research project to conduct a 7-year longitudinal study of 200 young women, middle school, through high school and into college.

Research in Teaching and Learning

- **Lesson Study and Pre-Service Mathematics Teachers** - Three year study resulting in 4 doctoral dissertations, 8 presentations at national and international meetings. Funding proposals to be written in Fall, 2003 to NSF ROLE program and an international grant with Queensland University of Technology in Australia.
- **Visual Spatial Thinking** – A 3-D Geo-Mapping course for middle school students was developed by science education faculty and provides a context for collecting base line data on adolescents' approaches to spatial tasks. NSF proposal submitted in January, 03 to continue this research.

Professional Development of Mathematics and Science Teachers

- **NC Middle Math Project** – NSF funded project for middle grade math teachers (graduate credit)
- **Riverside Magnet** – Eisenhower funded project for elementary teachers in mathematics and science.
- **EarthView** – NSF funded project for high school science teachers.
- **Teachers on Track with Technology** – Eisenhower funded project for middle grade mathematics teachers.