

T³! Teachers Teaching with Technology Summer Institute

Connecting Mathematics and Science

hosted by the
University of Arkansas, Fayetteville
Center for Mathematics and Science Education (CMASE)/
NASA Educator Resource Center

What: Connecting Mathematics and Science (CMS)

Where: Ozark Hall, Room 107

Date: July 24-28, 2000

Time: 8 am - 5 pm

Cost: Registration fee of \$150 per person

The registration fee includes a TI-83 Plus graphing calculator and overhead panel with graph link, TI book plus instructional materials, lunches, and snacks. School teams of 2 or 3 teachers will also receive a Calculator Based Laboratory (CBL) System and a Calculator Based Ranger (CBR).

Registration Deadline: July 3, 2000

Target Audience: Grades 9-12 mathematics and science teachers. Math content will focus on algebra, precalculus, and calculus. Science content will focus on physical science and physics.

The T³ Connecting Mathematics and Science (CMS) Institute is a week-long professional development program for secondary mathematics and science teachers designed around the TI-83 Plus graphing calculator and the Calculator-Based Laboratory (CBL) System, a calculator interface used to collect data through probes or sensors. The primary focus of the CMS institute is collection of data and the analysis of that data from both scientific and mathematical standpoints. Participants will gain hands-on experience collecting data with the CBL and modeling it with the powerful statistical tools of the TI-83 Plus. Working in groups, teachers will use this knowledge to develop a lesson focusing on the integration and connection of mathematics and science. The week will emphasize new and innovative teaching techniques as prescribed by NCTM's *Curriculum and Evaluation Standards for School Mathematics* (NCTM, 1989), *Professional Teaching Standards* (NCTM, 1991), *Standards 2000* (NCTM), and *National Education Science Standards* (NRC; endorsed by NSTA).

Submit the completed application and \$150 registration fee to CMASE by July 3, 2000.

Center for Mathematics and Science
106 Ozark Hall
Fayetteville, AR 72701
Phone: 501-575-3875 Fax: 501-575-5680

For additional information E-mail: Mary Alice Mixon (mmixon@comp.uark.edu)