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My organization is the T3 Program (*Teachers Teaching with Technology*), Mathematics Department, The Ohio State University.

**Goal Area: *Improving Teacher Knowledge***

To assist individual teachers of mathematics and school-based mathematics curriculum supervisors improve their mathematics knowledge base and understanding and also how to implement the integration of *appropriate use of technology* in their classroom and schools.

**Brief Summary:**

Beginning with NSF funded summer T3 institutes at The Ohio State University Mathematics Department, we have provided in-service teacher training since the mid 1980's. These institutes were expanded in the early 1990s and delivered at sites all across the U.S. The goals of these intensive one-week institutes were threefold.

1. Increase the mathematical knowledge of the teachers in order to improve their understanding of mathematics content.
2. Illustrate how computer visualization could be used to *enhance* the teaching and learning of mathematics, *without replacing*, traditional paper-and-pencil mathematics learning and understanding.
3. Explain and reinforce the need for a *balanced approach* when it comes to use of technology in mathematics education. There is still a crucial role for mental and paper-and-pencil mathematics in school mathematics.

The best and brightest of our teachers now form the core of the instructional staff for T3.

**Additional information is available at these three web sites:**

<http://emptweb.mps.ohio-state.edu/shortcourse/>

<http://www.t3ww.org/>

<http://education.ti.com/us/t3/about/history.html>

**Purpose:**

T3 summer Institutes and national and regional conferences given during the year offer mathematics teachers the opportunity to understand mathematics at a deeper level and learn how to effectively use technology (including *when it is appropriate and not appropriate*) to enhance student learning.

**Accomplishment/Results:**

In the past 15 years there have been over 2000 one week summer T3 institutes offered in every state reaching at least 50,000 mathematics and science teachers. There have been 15 international T3 conferences held each year in the US with attendance now numbering from 2000 to 3000 teachers. In addition, there have been over 75 regional T3 conferences offered in many States. Lastly, in the mid 1990s, the US T3 program expanded to over 20 countries worldwide including Japan, China, Sweden, England, France, and Germany.

**Plan for the next 12 Months:**

We are continuing our summer institute program, national and regional conferences, and increasing our efforts to offer flexible and systemic in-service training for school districts during the academic year. This includes expanding our online efforts to reach more teachers who can't attend face-to-face training. We also continue to offer courses for

mathematics education professors teaching pre-service teachers that address the goals of T3.