

1035-97-412

**Laurie J. Riggs\*** (lriggs@csupomona.edu), Cal Poly, Department of Mathematics and Statistics, 3801 West Temple Ave, Pomona, CA 91768. *Using Technology to Build Understanding in Teaching and Learning Mathematics.*

Teachers and future teachers need a deep understanding of the mathematics they are to teach. If they only have algorithms and rules for doing mathematics that is what they will transfer to their students. Teachers need opportunities to explore and engage in mathematics to develop their own conceptual knowledge. The use of technology in the classroom for demonstration and exploratory projects can help teachers build a strong content knowledge base. It can also model teaching strategies that can be used in their own classrooms.

This session will demonstrate the use of technology to support the teaching and learning of mathematics. We will see sample projects and demonstration models that build key concepts. Teacher developed models will also be shared. (Received September 06, 2007)