

*The California State University/University of California
Mathematics Diagnostic Testing Project:
Teaching Transformation Geometry*

*A conference for teachers sponsored by MDTP,
the Center for the Enhancement of Mathematics Education,
and the CSUSB Department of Mathematics*

Tuesday, March 6, 2012

*CSU San Bernardino Campus
Jack Brown Hall—Room 391*

3:45 – 4:15 PM Orientation and Welcome

*John Sarli, MDTP Workgroup Chair and CSUSB Site Director
Bruce Arnold, MDTP Director*

4:15 – 5:30 PM

John Sarli and Davida Fischman, Department of Mathematics CSUSB:

Standards for Mathematical Practice and Transformation Geometry

The CA Common Core State Standards are explicit about incorporating transformations into the study of geometry. We will look at portions of the Standards for Mathematical Practice that will need to be stressed, review appropriate terminology and facts about rigid motions and similarity transformations, and preview some topics that MDTP will be developing for its test materials.

5:30 – 6:00 PM Dinner and Discussion

6:00 – 7:15 PM

Tamara Bonn, Nuview Bridge Early College High School

A Practical Look at Transformations in the Plane

The CA CCSS for Geometry make clear that students should be able to “represent transformations in the plane”. In order to develop the idea of transformations in the plane we will look at rigid and non-rigid motions and their effect on polygons. We will represent the transformation of these figures both with and without coordinates. The ideas of congruence and similarity will be explored from this perspective.

7:15 – 7:30 PM Summary Discussion