



San Diego Mathematics Project



SAN DIEGO STATE
UNIVERSITY

Getting Ready for College Mathematics: Conversations with Math Professors

Free Interactive Sessions for High School Math Teachers!

Sponsored by the San Diego Math Project

Four Sessions this Spring!

Wednesday, February 25, 4 – 6 pm

“Recursive and Explicit Representations of Functions in the CCSS”

Register Online here: <http://goo.gl/forms/tlU1L58wAm>

Dr. John Elwin, SDSU Department of Mathematics and Statistics, and Esmeralda Orozco – Sweetwater Union High School District – Noyce Teacher

Description: Our focus will be on recursive and explicit representations of functions as reflected in the new common core materials. Standards of math practice 1, 2 and 5 will be emphasized. We will consider linear, exponential, quadratic and higher order polynomials as models for recursive expressions or data given by charts. The method of successive differences for determining the choice of models and connections to calculus will be presented.



Thursday, April 16, 4 – 6 pm

“Should I Use GSP or Geogebra or . . . ? Tales on the Use of Technology Across the High School Math Curriculum”

Register Online here: <http://goo.gl/forms/FXPCZMFqSI>

Dr. Janet Bowers, SDSU Department of Mathematics and Statistics, and Steve Cormier, student teacher at San Diego High Educational Complex

Description: The question of how to use technology to support learning is challenging to answer and yet critical to consider. In this presentation, Janet and Steve will share several teaching tips they have developed to support students' efforts to explore mathematical relationships in geometry, algebra I & II and pre-calculus. Steve has developed a number of sketches using *Geometer's Sketchpad* that he shares with his students (and will share with participants). Janet has developed many applets using *Geogebra* that she has her students explore via the internet (which she will share with participants as well). Each program and approach has its pros and cons and participants will be encouraged to weigh in on the lively debate! Janet and Steve are also starting a "teaching with technology users group" and invite any interested attendees to join.

Wednesday, March 18, 4 – 6 pm

“Expanding School Geometry through the Perspective of Geometric Transformation”

Register Online here: <http://goo.gl/forms/A9ojKRXoaa>

Dr. Susan Nickerson, SDSU Department of Mathematics and Statistics and Beth Rackliffe, math resource teacher for La Mesa Spring Valley School District

Description: This session will focus on the new standards related to transformational geometry in secondary school and how we can approach the curriculum so that students can see coherence and the relevance of the new definitions of congruence and similarity.

Thursday, May 7, 4 – 6 pm

“Representing and Modeling with Vectors”

Register Online here: <http://goo.gl/forms/mq9FmraUku>

Dr. Chris Rasmussen, SDSU Department of Mathematics and Statistics and Dr. Megan Wawro, Assistant Professor in the Mathematics Department at Virginia Tech in Blacksburg, Virginia

Description: In this session participants will work through an instructional sequence that focuses on representing and modeling with vectors. The sequence introduces the concepts of span and linear independence. Referred to as the Magic Carpet Ride sequence, the problems begin with an imaginary scenario that allows for the building of rich imagery and formal definitions. The approach begins by focusing on vectors, their algebraic and geometric representations in R^2 and R^3 and their properties as sets.

Location

SDSU's Center for Research in Mathematics and Science Education (CRMSE)
6475 Alvarado Road, Suite 128 San Diego, CA 92120 (LOTS of free parking)

Refreshments provided

Space is limited—register today!

Questions? Email Dr. Nadine Bezuk at: nbezuk@mail.sdsu.edu