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Bradley Forrest, Pamela Kosick* (pamela.kosick@stockton.edu) and **Chia-Lin Wu.**

Increasing Math Proficiency in High School Teaching.

With the support of a Research and Professional Development grant from Stockton College we designed and implemented a 5 day long summer professional development workshop for high school mathematics teachers of the Greater Egg Harbor Regional School District in NJ. The goal of this workshop was to enrich the mathematical content knowledge of the teachers. We focused on the areas of Abstract Algebra, Calculus, and Geometry discussing the theoretical foundation of each and its connections with high school mathematics. Here we discuss the strengths and weaknesses of the workshop as well as our next steps to continue and improve the workshop. (Received September 02, 2011)