

Funded Research

The Department is heavily involved in funded research. Among our 28 professors, 22 are conducting funded research. We have 12 projects funded by the *National Science Foundation*. We also have projects funded by other governmental agencies, by industry, and by private foundations. Last year the *McLeod Foundation of San Diego* began supporting our teaching and research in statistics. Among various grants and contracts received by the Department, four large projects are listed below.

Jose Castillo is holding a five-year, \$1.2 million training grant from the *National Institute of Health*. The project unites faculty members, undergraduate students and doctoral degree candidates in a team approach to solve biomedical science problems.

Joanne Lobato is holding a three-year, \$1.3 million grant from the *National Science Foundation* to examine the relationship among teacher knowledge and goals, the mathematical focus that develops in a classroom, and the ways in which individual students generalize their mathematical learning experiences.

Susan Nickerson is holding a \$0.94 million grant from *California Postsecondary Education Commission*. It is a collaborative project between San Diego State University faculty and the San Diego City Schools administrators to support middle grades mathematics teachers in low-performing schools in meeting the requirements of the federal No Child Left Behind Act of 2001 (NCLB) Legislation.

Antonio Palacios is the Principal Investigator of four projects currently supported by *National Science Foundation* and *Department of Defense* with the total funding of \$0.75 million, including several NSF-Navy Civilian Service graduate fellowships. He is investigating flame patterns and other nonlinear dynamical systems.

Colloquia & Seminars

The Department offers an active slate of speakers on topics in mathematics, mathematics education and statistics. Highlights over the last year in 2007 have included a special public lecture on climate change by Professor Gerald North (Texas A&M), a talk on cryptography by Dr. Kristin Lauter (Microsoft Research) and a talk on Computational Biology by Professor Berndt Sturmfels (UC Berkeley). Prof. North's climate change lecture was covered by Fox 6 evening news.

Colloquia & Seminars, 2007

John Brevik, CSU Long Beach, Nov. 30, Curves on Surfaces in Projective Space

Colleen Kelly, Exponent, Nov. 19, My life as a Consulting Statistician

Changxuan Mao, UC Riverside, Nov. 16, Population size estimation from multiple lists

Mark Dunster, SDSU, Nov. 16, Resonance and "almost" nonuniqueness in the scattered field of a dielectric circular cylinder.

Serkan Hosten, San Francisco State University, Nov. 9, An Introduction to Algebraic Statistics

Peter Salamon, SDSU, Nov. 2, Quantum Cooling

Oh Nam Kwon, Seoul National University, Nov. 1, Inquiry-Oriented Differential Equations: Its Impact and Prospects

Todd Coffey, Amylin Pharmaceuticals, Oct. 30, How to think like a Statistician: Providing value in the Pharmaceutical Industry

Gerald R. North, Texas A&M University, Oct. 18, Climate Change: State of the Art

Andre Kundgen, CSU San Marcos, Oct. 12, Graph minors and reliable single message transmission

Xin Lu, UCSD, Oct. 12, Statistical Issues in Microarray Gene Selections: False Discovery Control and Selection Reproducibility

Scott Nelson, SDSU, Oct. 2, Careers in Statistics: An Intro to Energy Forecasting

Subir Ghosh, UC Riverside, Sept. 27, Model Search, Identification, and Discrimination in Factorial Experiments.