

California Space Grant in the 53rd District

The California Space Grant Consortium has sponsored K-20 STEM projects in three affiliates in the 53rd District: San Diego Supercomputer Center, UC San Diego, and San Diego State University:

SDSC: Space Grant-sponsored funding allowed the San Diego Supercomputer Center to sponsor a TeacherTECH Space Science Series in the fall of 2010. The series drew upon community organizations, college faculty and museum educators to come together in an expert-focused series that spanned the California State Standards. The feedback was so tremendously positive that an Earth Science Series has followed in the early months of 2011. Over 150 educators attended the Space Science Series and related community events.

UCSD: Space Grant-sponsored funding allowed a Senior Design Class to design payloads and integrate them in their rocket projects. It allowed the Introduction to Aerospace Engineering Class to have early, hands-on experience with the High Altitude Balloon Project. Students worked in teams to design and launch experiments that reached 85,000 feet (near space). Photos retrieved from the payloads show the blackness of space and the curvature of the earth. Space Grant also provided fellowships for several graduate students in the research area of Unmanned Aerial Vehicles.

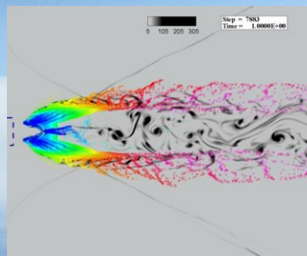
SDSU: We have supported graduate students studying fuel-injector flows in supersonic cross streams. This year we will conduct outreach efforts to K-12 students underrepresented in the STEM fields.



San Diego Supercomputer Center: TeacherTECH



SDSU Grad Student Simulating High-Speed Flow Laden with Fuel Droplets



SDSU Flow Simulation



UCSD High Altitude Balloon Launch