



Nanoscience Workshop for High School Teachers and their Students

Students will be given a certificate of participation for the workshop

The NanoSense project (<http://nanosense.org>) is pleased to announce an opportunity for Bay Area high school science teachers and 3-5 of their students to work with research scientists at SRI International and San Jose State University in a 1-day nanoscience workshop on February 11, 2006. Nanoscience explores the special phenomena that occur at the nanometer scale, from 1 to 100 nanometers (10^{-9} m). Introducing students to nanoscience is an exciting way to help them experience science in the making and deepen their understanding of the nature of science. After a general introduction to nanoscience, we will explore the effect of the size of nanopowders on the interactions of energy and matter (e.g., the absorption of light, addressing the electromagnetic spectrum and associated wavelengths). In particular, we will explore how “nano sunscreens” differ from traditional sunscreens.

Participating teachers will be given sets of materials to take back to their classroom. Teachers will also be encouraged to give feedback and input on the materials. Participating students will be given a certificate of participation. Lunch will be provided for all participants. We will also have a guest presentation from a nanoscientist over lunch. (See schedule on right.)

APPLICATION DEADLINE: JANUARY 27, 2006. Limited to 6 teachers and 30 students. To apply, send an email with your name, high school, subject, and student names to nanosense-contact@sri.com

WORKSHOP LOCATION:

Department of Chemistry
Duncan Hall 505
San Jose State University
San Jose, CA

WORKSHOP DATE:

Saturday, February 11, 2006

TENTATIVE SCHEDULE:

- 8:45** Arrival and check in.
- 9:00** Nanoscience introductory lesson.
- 10:00** Break.
- 10:15** Introduce and discuss the clear sunscreen phenomenon.
- 10:45** Lab activities.
- 11:30** Lunch and guest speaker.
- 12:30** The science behind clear sunscreen lesson and class discussion.
- 1:30** Scattering animation activities.
- 3:00** Wrapup, reflection, and cookies.
- 3:45** Adjourn.