

Summary for TO Tour on 11/1/2012

Twenty-two high school students from Clark Magnet School in Glendale

Teacher Alex Day Blattner, Natural Hazards class

Presentations and tours given by Nina Lin, Luca Malatesta, Jeff Prancevic

Schedule:

10:00 – 11:00 AM

Seismo Lab tour

South Mudd

11:00 – 12:00 noon

Creating debris flows in the lab

Luca Malatesta, Graduate student

Jeff Prancevic, Graduate student

Flume Lab

Counting Fringes: How geoscientists study deformation while sitting at their desks

Nina Lin, Graduate student

Room 107 Annenberg

Nina Lin: The name of my presentation is "Counting fringes: how geoscientists study surface deformation while sitting in front of their desks". I introduced the idea of surface deformation, its importance to geoscientists, and different techniques to measure surface deformation since the 20th century. The key part is to bring them the state-of-art technology: InSAR technique. I introduced briefly the way InSAR works, and then gave them handouts that contain two interferograms each showing magmatic inflation signals and tectonic faulting signals. The students are asked to count the number of fringes in the InSAR images, to get the sense of surface deformation, and to guess the possible geophysical sources associated with these interferograms.