

West Side Science Club – Event #2– “Field Trip to Caltech”

Original Presentation

Date: 17 November 2012
Time: 10 am to 12 pm
Site: West Side Science Club

Lesson Plan

Student Objectives

- Learn what a college campus is like
- See what real science labs look like
- Understand what the daily life of a scientist is like

Schedule/Agenda

- Welcome to campus from Prof Harry Gray
- Discussion of college and what they know about it so far
- Beckman Institute Laser Resource Center (BILRC) gummy bear and laser demo to show how laser light can be absorbed, reflected and transmitted.
- Tour of chemistry lab and hood- explanation of job and safety
- Tour of XPS: X-ray photoelectron spectroscopy
- Caltech Campus Tour
- Tour of Jorgensen building and discussion of two renewable energy groups that work there: JCAP (Joint Center for Artificial Photosynthesis) and the Resnick Institute
- Chemistry demonstration of chromatography in the lab