

## West Side Science Club – Event #23 – “ Field Trip to USC”

### Original Presentation

Date: 15 February 2014  
Time: 10 am to 12 pm  
Site: USC Loker Hydrocarbon Research Institute

### Big Questions

- These questions are meant to frame the day’s event and might be written on the chalkboard
  - (1) What is a fuel cell?
  - (2) What do you think of this college campus?

### Concepts

- Concepts to cover from the “Work of CCI Solar” Mind Map: Storage- fuels, batteries; Social Aspects- CO<sub>2</sub>, greenhouse gases, climate change, global energy demand, fossil fuels, renewable vs. nonrenewable; Devices- design, cost-effectiveness

### Lesson Plan

#### *Student Objectives*

- Learn what another college campus is like
- See how other research labs are like Caltech and do similar, but different, work
- Be exposed to fuel cell technology

#### *Schedule/Agenda*

- Welcome and breakfast (20 min)
- Presentation from Robert Aniszfeld on methanol fuel cells (1 hr 20 min)
- Lab tour of Loker Hydrocarbon Research Institute (20 min)