**Goals**
- Increase the visibility of the TO
- Inform and educate the public about TO discoveries
- Inspire kids to learn science
- Recruit graduate students

**Approaches**
- Web
- Direct contact with local schools
- Direct contact with international communities
- Media
- Existing Caltech outreach programs

**The First Five Years (2004 - present)**
- Posters, brochures, and GPS station data sheets about earthquake education and safety in Indonesia
  - Distributed to people living on Mentawai and Batu islands
  - Explain regional tectonic processes and purpose of GPS stations (Sieh, 2006)
- Brochure about Nepal's seismological network
  - Reference guide used throughout Nepal by government departments and the general public
  - In collaboration with colleagues from the Nepal Department of Mines and Geology (Avouac, 2006)
- Educational Outreach in Mexico (Professor Xyoli Pérez Campos, MesoAmerican Subduction Experiment)
  - Senior engineering students at UNAM make presentations to schools that host MASE instruments (Rob Clayton)
- Google Earth
  - A new way to display TO model slip maps of large earthquakes (Anthony Sladen and Faria Chowdhury)

**The First Five Years (2004 - present) - cont’d**
- New animations and graphics
  - For media, teaching, and web, as well as upcoming Seismolab exhibit (Tim Pyle, Lisa Christiansen, Anthony Sladen, Mark Turner, Valerie Thomas)
  - Subduction
  - Pangaea
  - Coral growth
  - Tsunami
  - Maps
- Video links
  - TO faculty lectures for general public
  - Caltech Watson lectures
  - American Natural History Museum, Science Bulletins
  - iTunes podcasts
- Web articles
  - The Science behind the May 12 Earthquake in China
  - Sumatra (in progress)
  - 10-million-year history of a fault (in progress)
- TO tours
  - Local 6th graders from Hamilton Elementary School, June 2008, led by
  - Grad students Willy Amidon & Carl Tape
  - Postdoc Itai Haviv
  - Jean-Philippe Avouac
  - Planning for 2 to 3 per year
  - Distributed flyers at district-wide PTA meeting October 2008
- Upcoming Dec 5 “Family Math Night” at Hamilton Elementary School
  - TO grad students will present how they use math in geology
  - Students - Let me know if you are interested!
- Educational video for High School and College students
  - “Upward and Outward” (produced by CRES)
  - Includes Ken Farley
  - Distribution of video to Caltech outreach
    - Caltech Classroom Connections (James Maloney)
    - Reel Science (Denise Nelson Nash)
    - Government and Community Relations (Hal Daly)

**The Next Five Years**
- Caltech programs
  - Watson Lectures
  - Reel Science
  - Science Saturday
  - Caltech Classroom Connection
  - SURF
  - YES
- National programs
  - MARGINS
  - SEIZE
- Web development
  - General explanations of research
  - Web articles
  - Graphics and animations
  - Google Maps and Google Earth
  - Videotape TO faculty lunchtime presentations to the staff
- Press and external media
  - Caltech press releases (new Media Relations science writer Lori Kluger)
  - CNN documentary “The Earthquake Hunter”
  - Discovery Channel series “Engineering Nature”
  - 3 programs on volcanoes, hurricanes, and earthquakes
- Assist faculty with grants
  - Provide opportunities for grad students and postdocs to contribute to broader impact of individual grants
  - Supplemental funding opportunities
  - Proposal preparation
- Expand involvement with local schools
  - Include middle and high schools
  - Two or three tours of TO per year
  - Two classroom presentations per year
  - Educational power point presentations
  - Education modules for high school
  - May have wider, national impact through MARGINS program
- Establish Summer School to train students in use of TO equipment
  - Two weeks
  - International
  - TO would provide funding for undergrads and grads
  - Postdocs and faculty would come with their own funding

**Looking for Students and Postdocs who would like to help Local Schools!**
- Give a 20-minute tour of your lab or explanation of your work to a group of about ten 6th graders
- Go into a classroom and give a presentation
- At Hamilton Elementary School’s “Family Math Day” December 5, present a poster or short talk on how you use math in geology