



IEEE METROPOLITAN LOS ANGELES SECTION  
GEOSCIENCE AND REMOTE SENSING SOCIETY (GRSS) CHAPTER



Landscape Changes in the Months Following the Station Fire, Arroyo Seco, California

Dr. Thomas Farr, Jet Propulsion Laboratory

Wednesday, August 21, 2013, 5:30–7:30 PM

Buwalda Room, 151 Arms Laboratory

Caltech Campus

Pasadena, California



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*The IEEE Geoscience & Remote Sensing Society Chapter in Los Angeles presents a special lecture event by Dr. Thomas Farr on in situ sensing.*

Following the 2009 Station Fire, which devastated a large section of the San Gabriel Mountains of Southern California, Tom Farr began a series of observations in the Arroyo Seco watershed to document landscape changes brought about by the fire and subsequent rainfall events. These observations were undertaken on runs 5 to 10 km up the Arroyo from JPL and took the form of field notes and repeat photography of several sites. The in-situ information was supplemented with remote sensing data. In the 3 months following the fire, dry processes such as ravel were observed, but on December 13, 2009 and February 6, 2010 intense rainfall events occurred that produced extensive modification of the Arroyo. Initially much woody debris was washed into the channel, followed by 2–3 m of coarse sediments. The hillslopes above the Arroyo experienced shallow rilling and stripping of a few centimeters of soil. Later rain events eroded the aggraded sediments, depositing them in the Devils Gate Reservoir.

*Refreshments will be served!*

**AGENDA**

- 5:30 PM – Refreshments
- 6:00 PM – Welcome by Elaine Chapin, Treasurer
- 6:10 PM – Lecture by Dr. Thomas Farr
- 7:00 PM – Discussion and Continued Refreshments
- 7:30 PM – Adjourn



**Directions and Parking:** Caltech is easily accessible from both the Harbor/Pasadena Freeway (110), southwest of campus, and the Foothill Freeway (210), north of campus. Please see <http://www.caltech.edu/content/directions> for detailed directions. Street parking is free and unlimited at this time of day. There is also a parking structure on the southeast corner of California Boulevard and Wilson Avenue that is free to all after 5:00pm on weekdays. Entrance off California Boulevard west of tennis courts (as indicated on map above).

**RSVP** to [la.grss.officers@ieee.org](mailto:la.grss.officers@ieee.org) would be appreciated, but not required.