



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



The Soil Moisture Active Passive (SMAP) Mission: First Out of the Gate for NASA's
 Decadal Survey

Dr. Michael Spencer, Jet Propulsion Laboratory

March 18, 2015

Buwalda Room, 151 Arms Laboratory
 Caltech Campus
 Pasadena, California



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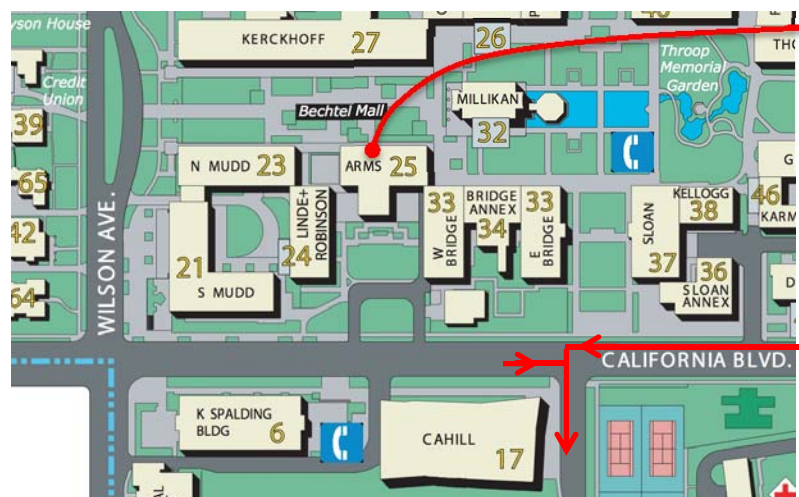
The IEEE Geoscience and Remote Sensing Society Chapter in Los Angeles presents a special lecture event by Dr. Michael Spencer

The Soil Moisture Active Passive (SMAP) observatory was launched into orbit on January 31, 2015. This mission combines a passive radiometer and an active radar, both operating at L-Band, to measure global soil moisture at high spatial and temporal resolutions. A unique feature of the instrument is the large rotating mesh antenna, the first use of such technology for a remote sensing application. This talk will cover the SMAP soil moisture measurement approach and system design, technical innovations associated with the mission, developmental difficulties encountered and overcome, and, to the extent that they are available, early mission results.

Refreshments will be served!

AGENDA

- 5:30 pm – Refreshments
- 6:00 pm – Welcome and Announcements – Mark Lamb
- 6:15 pm – Lecture by Dr. Michael Spencer
- 7:00 pm – Discussion and Continued Refreshments
- 7:30 pm – Adjourn



Buwalda Room/Sharp Lecture Hall, Arms Laboratory, Enter from Bechtel Mall

Route to parking structure (free after 5 pm)

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 the map above).

RSVP to la.grss.officers@ieee.org would be appreciated (but not required) so that we can plan refreshments accordingly.