



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



The Impact of the Ionosphere on Radar Remote Sensing

Prof. Franz J. Meyer, University of Alaska, Fairbanks

Wednesday, June 18, 2014

**Buwalda Room/Sharp Lecture Hall, Arms Laboratory
Caltech Campus
Pasadena, California**



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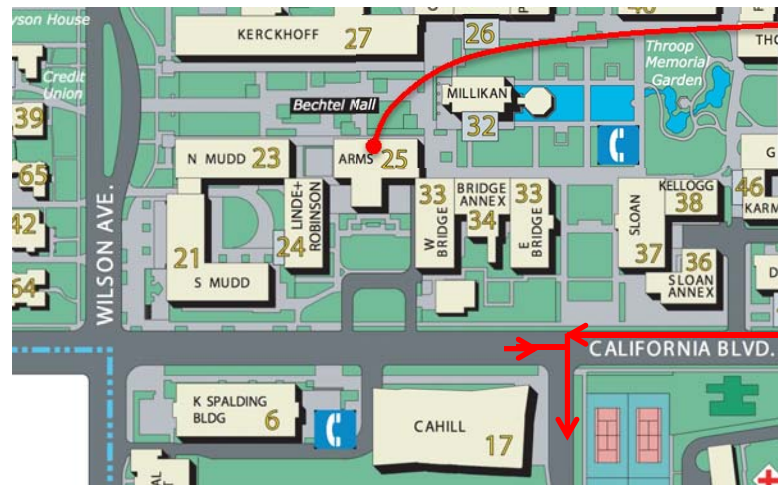
The IEEE Geoscience & Remote Sensing Society Chapter in Los Angeles presents a lecture event on ionosphere and remote sensing

Abstract: Synthetic Aperture Radar images from space provide an all-weather, day-night means for measuring the changing Earth. The wavelengths of modern radar systems range from a few to a few tens of cm, and as such are subject to path delay variations induced by the ionized plasma and magnetic field between the spacecraft and Earth's surface. These effects, which include amplitude and phase perturbations to the radar signal, depend on the orbit, solar activity, and the state of the ionosphere on any given day. In this talk, an overview of the characteristics of the ionosphere and its impact on radar signals will motivate a presentation of anticipated noise sources for future missions, and specific approaches to mitigate them.

Refreshments will be served!

AGENDA

- 5:30 pm – Refreshments
- 6:00 pm – Welcome and announcements, Paul Rosen, chair
- 6:10 pm – Lecture, Prof. Franz Meyer, U. of Alaska, Fairbanks
- 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.