



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



**Exploration with Passive Microwave Radiometers at JPL: Past, Present and Future  
Dr. Shannon T. Brown, Jet Propulsion Laboratory**

**October 5, 2016**

**Buwalda Room, 151 Arms Laboratory  
Caltech Campus  
Pasadena, California**



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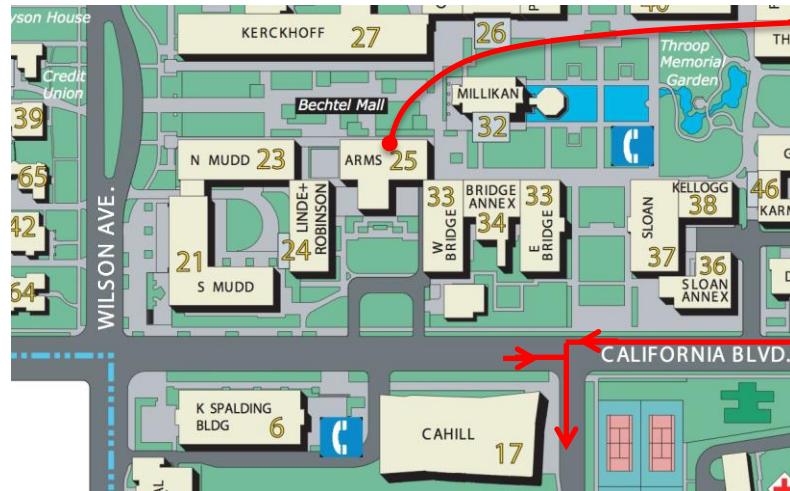
***The IEEE Geoscience & Remote Sensing Society Chapter presents a special lecture event by Dr. Shannon T. Brown.***

The Jet Propulsion Laboratory has been developing microwave radiometers since the early 1960s for planetary missions initially and then Earth itself. This talk highlights the developments of the past and how they relate to on-going and future research in microwave radiometry at JPL. Examples include the Juno Microwave Radiometer (MWR) system and the Compact Ocean Wind Vector Radiometer (COWVR) system. Key science resulting from instruments such as these will be presented, ranging from observations of a rapidly intensifying hurricane on Earth to observations on the deep circulation within Jupiter. Prospects for the future of radiometry will be presented focusing on emerging technology trends and what small-satellite systems could mean for observing the Earth system like never before.

***Refreshments will be served!***

**AGENDA**

- 5:30 pm – Refreshments
- 6:00 pm – Welcome and announcements – Mark Lamb
- 6:15 pm – Lecture by Dr. Shannon Brown
- 7:00 pm – Discussion and Continued Refreshments
- 7:30 pm – Adjourn



**Buwalda Room  
151 Arms  
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 a parking structure on the southeast corner of California Blvd. and Wilson Ave that is free to all after 5:00 p.m. on weekdays. Entrance off California Blvd. west of tennis courts (as indicated on map).

**RSVP** to [la.grss.officers@ieee.org](mailto:la.grss.officers@ieee.org) for dinner reservations at the Athenaeum afterwards.