



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



**Remote Sensing with Multiple Satellite Sensors  
for Interdisciplinary Science Investigation of Arctic Sea Ice and Halogen Chemical Processes  
Dr. Son V. Nghiem, Jet Propulsion Laboratory**

**April 13, 2016**

**Sharp Lecture Hall, 155 Arms Laboratory  
Caltech Campus  
Pasadena, California**



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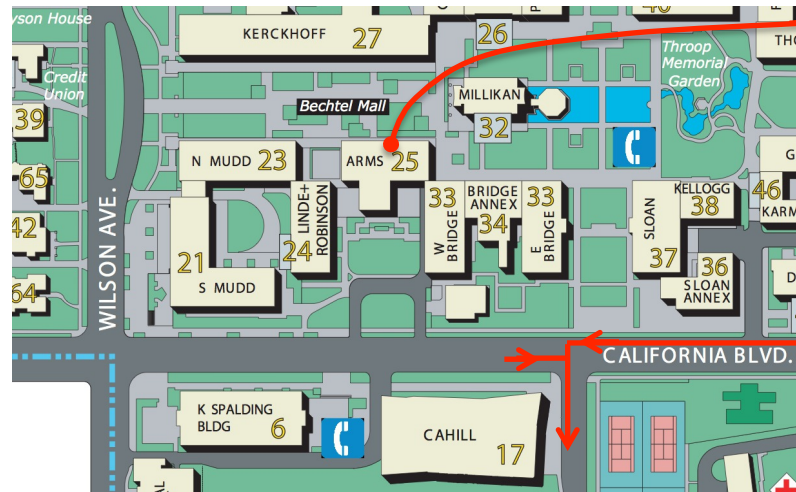
***The IEEE Geoscience & Remote Sensing Society Chapter presents a distinguished lecture event by Dr. Son V. Nghiem.***

The drastic reduction of perennial sea ice in the Arctic since year 2000 has transformed the Arctic sea ice cover composition. This is particularly important during the winter-spring transition, as it is the polar sunrise period for halogen photochemical processes to occur in the Arctic troposphere. To investigate impacts of sea ice reduction on the atmospheric chemical processes, we conducted the InterDisciplinary Science (IDS) BRomine, Ozone, and Mercury EXperiment (BROMEX) in March-April 2012 around Barrow, extending out inland and offshore over the Beaufort Sea and the Chukchi Sea with a number of measurements continuing to the present. In this lecture, we will show key results, including discoveries that lend science support to the Minamata Convention, a global treaty to curb mercury pollution.

***Refreshments will be served!***

**AGENDA**

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



**Sharp  
Lecture Hall  
155 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 also a parking structure on the southeast corner of California Boulevard and Wilson Avenue that is free to all after 5:00 p.m. 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.