



MEETING NOTICE **Buenaventura MTT-S Chapter**

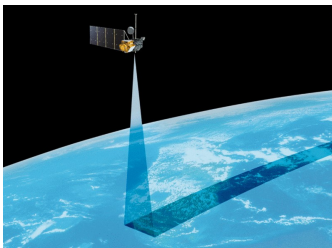
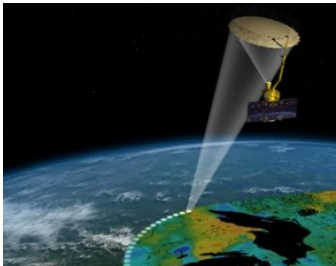
Nov 14th, 2019 (6:30PM)

Location : Skyworks (Conference Room), 649 Lawrence Drive,
Newbury Park, CA 91320

Agenda: 6:30PM Reception & Networking;
7PM Presentation

NISAR-NASA's Flagship Earth Science Mission

Presenter : **Momin Quddus**
JPL/NASA/Caltech



Abstract : Scientist have been studying Atmospheric and solid Earth processes for decades. These studies have been based on the data available from the airborne and ground sensors. In order to create global models of the Earth processes science data at a global scale is required. Most efficient and comprehensive data at global scale can only be acquired from space via Earth orbiting satellites. NASA is in the process of deploying several Earth orbiting satellites with remote sensing Radar instruments. NISAR (NASA-ISRO Synthetic Aperture Radar) third in this series of Earth Science missions. NISAR Instrument will have a wide swath with high resolution. This will enable the instrument to map the Earth's processes at relatively short time scales. This will allow scientists to model and study Earths biomass budget, movement of earths crust and dynamics of ice sheets.

In this talk a high level overview of NASA's current and planned Remote Sensing Radar missions will be provided. Detailed topics will be discussed based on the interest of the audience.

Bio: Momin Quddus works at Jet propulsion Laboratories' Radar Science Section . He lead the team that designed, developed and build Radar Back End (RBE) subsystem for NISAR Sweep SAR Instrument. He is also involved in the integration and testing of remote sensing radar for Europa/Clipper Planetary mission. Prior to JPL, Momin designed and developed Satellite receiver for Direct Broadcasting system. He also designed CDMA and TDMA mobile phones at Motorola and NEC. Prior to that he worked for a avionics equipment manufacturer where he designed antennas and subsystems for Military and commercial aircrafts. Momin received his MSEE degree from FAU and BSEE degree from University of Texas. He received his PE certification in State of Florida. Momin has a patent on a antenna design for wireless devices. He serves as an Officer in MTTs Chapter and IEEE Buenaventura Section.

Momin enjoys playing field hockey, tennis and soccer. He coaches youth soccer, basketball and track & field teams. He enjoys being a judge at, academic decathlon and Science Fair.

