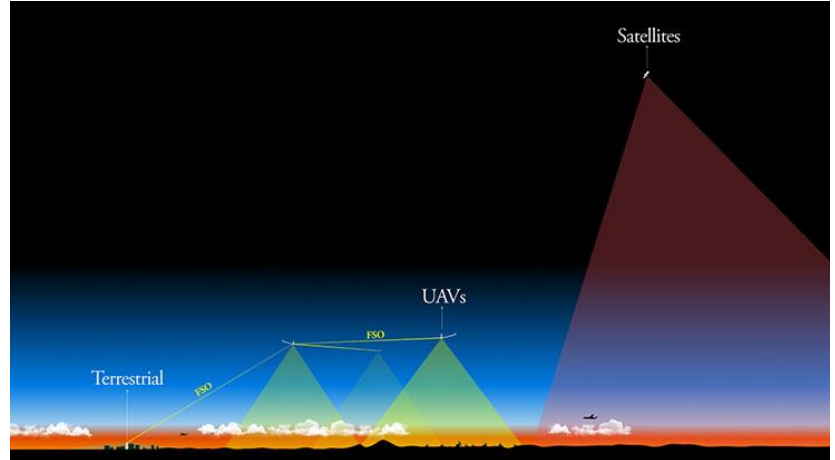


Connecting the Unconnected

Dr. Hamid Hemmati, Director of Engineering – Telecom Infra, Facebook

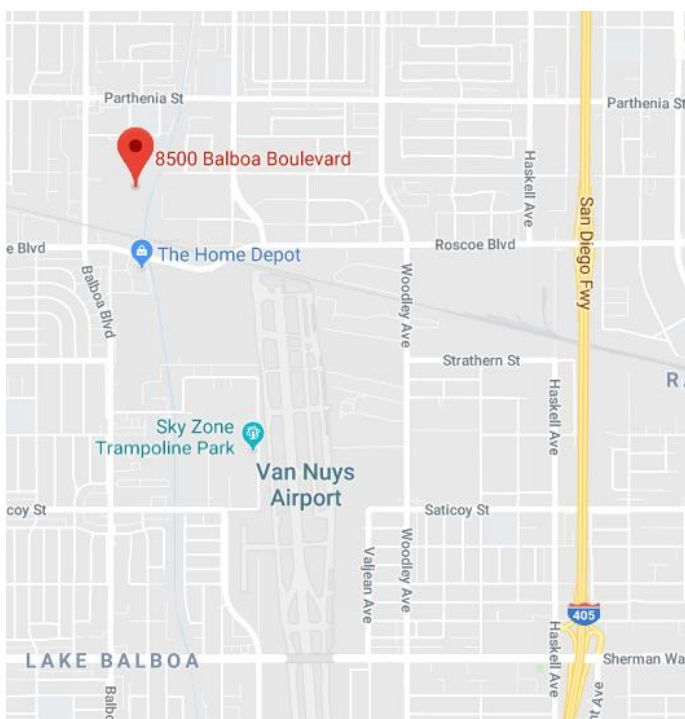
Abstract: Nearly half the world population, greater than three billion in total, has either no access or fairly poor access to the Internet. Facebook, through its Internet.org partnership intends to provide Internet access to the developing countries of the world. The required data-rate to provide Internet service in those online simultaneously in these countries is estimated at over 1 Tbps. This is a staggering data-rate. Cost effective means are required to make the service possible and that requires significant advancements of the state-of-the-art in technology.



About our speaker:



Dr. Hemmati is a Director of Engineering Facebook Inc. Prior to that he was with the NASA/JPL/Caltech for 28 years as a researcher, Principal Member of Technical Staff, and as the Supervisor of the Optical Communications Group. Most of his career has been focused primarily on laser satellite communications technology development. Dr. Hemmati is the editor and author of two books: “Deep Space Optical Communications” and “Near-Earth Laser Communications” and author of six other book chapters. Dr. Hemmati received NASA’s Exceptional Service Medal for his work on Deep Space Optical Communications. He has also received 3 NASA Space Act Board Awards, and 36 NASA certificates of appreciation. Dr. Hemmati is a Fellow member of the OSA (Optical Society of America) and the SPIE (Society of Optical Engineers). Dr. Hemmati has authored and co-authored of nearly 200 publications and 11 patents.



Wednesday, April 10th, 2019

**6-7 pm: Tours, networking,
Light refreshments.**

7:30 pm: Presentation

Venue:

**Facebook LA Office – Harman Campus
8500 Balboa Boulevard
Northridge, CA, 91329**

On-line Registration: www.osscc.org or

Contact: Alex Small

Events@osscc.org, 240-672-7639

**Must register by April 2 to ensure
access to facility.
Signed NDA and government ID
required.**