

TATA INSTITUTE OF FUNDAMENTAL RESEARCH

Homi Bhabha Road, Mumbai-400 005

April 17, 2018

ASET Colloquium

- Speaker** : **Dr. Rabin Patra** (*Co-founder of Tarana Wireless*)
- Title** : **From Theory to Reality for Universal Wireless Transport**
- Date & Time** : **Friday 01 June 2018 at 16:00 hrs.**
- Venue** : **Lecture Theater (AG-66.)**

Abstract :

Fixed and mobile access networks are still swamped by ever-increasing demand fueled from cloud computing and video. While fiber and other wired solutions are throttled by high costs, protracted installation timelines and regulatory complexity, today's wireless technologies also miss the mark. Tarana Wireless has made fundamental advances made by to offer the industry's first practical wireless alternative to fiber for residential, enterprise, and urban access. Unique multi-antenna techniques provide immunity to obstructions, interference, motion, and unskilled installers. Real-life deployments around the world have shown gigabit speeds in non-line-of-sight conditions with spectral efficiency reaching 100 bits/s/Hz, which is 20x faster compared to 4G/LTE.

Brief biography:

Rabin Patra is a co-founder of Tarana Wireless, a startup that builds spectrally efficient wireless access technologies. After getting his BTech degree in Computer Sc. & Eng. from IIT Kharagpur, Rabin obtained his PhD in Computer Science with the TIER research group at the University of California at Berkeley. For his doctoral research, Rabin developed low cost long distance wireless systems using readily available 802.11 hardware. Rabin connected with a number of outstanding organizations such as Aravind Eye hospitals and Airjaldi in India to put these solutions in action. Rabin's broad research interests are in building wireless technologies with a focus on smart antenna systems and networks that have self-aligning and self-managing capabilities.



Dr. Satyanarayana Bheesette
(Coordinator, ASET Forum)