



Call for Papers for *Selected Areas in Communications Symposium* *- Track on Access Systems and Networks -*

Scope and Motivation:

Access systems and networks include a diverse set of transmission technologies and associated networking functions, typically far more complex than that found in other parts of the network. The need for bandwidth is continuously growing, and the access network must grow to match this. It is therefore important to consider all the pieces of the access puzzle to find their best combination into an access network/system to deliver the ever growing range of services.

Main Topics of Interest:

- Twisted pair copper systems (e.g., VDSL, G.fast)
- Hybrid Fiber Coaxial (HFC) systems (e.g., CCAP, EPOC)
- FTTx and Passive/Active Optical Networks (PONs and AONs)
- Bluetooth, Wi-Fi, WiMAX, WLL and Cellular Access
- Converged wired/wireless access
- Optical-Wireless integration (e.g., RoF, back-haul, front-haul)
- Free-Space Optical-Access (components, systems, and networks)
- Home/Building/Neighborhood Area Networks
- Access network architectures and protocols
- Software defined networking in access
- Service convergence & multimedia networks
- Quality of service provisioning in access networks
- Access network survivability and security
- Techno-economic analysis of access alternatives
- Applications (video streaming/IPTV etc)

Sponsoring Technical Committees:

- Transmission, Access and Optical Systems (TAOS)

How to Submit a Paper:

The IEEE Globecom 2014 website provides full instructions on how to submit papers. You will select the desired symposium when submitting. **The paper submission deadline is April 1, 2014. Unlike recent ICC's and Globecom's, this is a hard deadline that will not be extended.**

Symposium Track-Chair:

Frank Effenberger, Futurewei Technologies, USA, frank.effenberger@huawei.com

Biography:

After completing his doctoral work in 1995, Dr. Effenberger took a position with Bellcore where he analyzed all types of access network technologies, focusing on those that employed passive optical networks. In 2000, he moved to Quantum Bridge Communications (now a part of Motorola), where he managed system engineering in their PON division. This work supported the development and standardization of advanced optical access systems based on B-PON and G-PON technologies. In 2006, he became Director of FTTx in the advanced technology department of Futurewei Technologies USA. He remains heavily involved in standards work, and has been the leading contributor and editor of the major PON standards in the ITU. In 2008, he became the chairman of ITU-T Q2/15 – the group that creates standards for optical access systems. He and his team work on forward-looking fiber and copper access technologies, including ITU NG-PON2, G.fast., and EPOC. Notably, his team supported the world's first trials of XG-PON, 40G-PON, and Gigabit DSL. In 2011, he was named as Huawei Fellow.

