

## Symposium Speaker

Full Name	Jun Shan Wey
Affiliation	ZTE TX, USA
Presentation Title	High Speed PON for 5G Fronthaul

### Biography

Jun Shan Wey is the Director of Fixed Networks Technology Strategy and Standards at ZTE TX – the US R&D subsidiary of ZTE Corporation. Shan has spent much of her career on next generation optical access technologies and PON standards development. She is an editor of ITU-T G.sup.5GP (PON for 5G wireless transport) and G.9806 (Bidirectional PtP fiber access) recommendation. Shan has been active in the OFC Technical Program Committee since 2015. She is the creator-architect of the *Connected OFCity Challenge* – a platform to brainstorm future broadband access solutions, the Optical Access Networks Subcommittee Chair at OFC 2018, and the designated Network-Track Program Chair for OFC 2020. Shan received a Ph.D. in E.E. from the University of Maryland at College Park.

### 200 words abstract

5G networks have promised to deliver significantly higher bandwidth, lower latency, and faster user experienced data rate than what are currently offered by 4G/LTE. To deliver these promised benefits, technology innovations in all aspects of the communication network are being developed in a very fast pace. One important question to ask is if and how the underlying transport network would need to be upgraded to meet these challenging requirements. Several technologies, such as PtP fiber access, optical transport network, passive optical network, are promising candidates for different use case scenarios of 5G transport networks. The ITU-T Q2/SG15 group is currently studying 5G wireless fronthaul in the context of PON in the G.sup.5GP project and has initiated a series of high-speed PON projects anticipating the 5G network evolution. This presentation will start with a review of 5G wireless transport network architecture and requirements, followed by discussions of transport technologies in particular high-speed passive optical networks, and finally a report on the latest relevant standards development activities.