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Special Session on Fiber-Wireless Integrated Networks for 5th Generation delivery (FIWIN5G)

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John Mitchell is Vice-Dean in the UCL Faculty of Engineering Sciences and Professor of Communications Systems Engineering. His research interests include optical access technologies, the transport of microwave and millimetre wave radio signals over optical fibre for communications, and wireless sensor networks. Prof. Mitchell is a Fellow of IET and a Senior Member of the IEEE.

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Eszter Udvary received Ph.D. degree in electrical engineering from Budapest University of Technology and Economics (BME), Budapest, Hungary. She is currently an associate professor at BME and she leads the Optical and Microwave Telecommunication Lab. Dr. Udvary's research interests are in the broad areas of optical communications. She is a member of IEEE.

Scope of the session

It Fiber-wireless integrated networks that rely on the collaborative use of both fiber-based and wireless communication technologies are currently turning into a highly important research area in view of the forthcoming era of 5G mobile systems. To provide high bandwidth and reliable service for both fixed and mobile users, a well - designed network must take into account both optical and wireless transmission, with efficient allocation of resources and satisfaction of QoS requirements within this hybrid network environment.

The workshop is organized by Horizon 2020 EU Marie-Curie Innovative Training Network FiWin5G.

Prospective authors are invited to submit original and unpublished work on the following research topics related to this Special Session:

- *a Fiber-wireless network architectures and technologies for 5G front- or backhauling*
- *Hybrid fiber-wireless access networks*
- *Optical generation, distribution, and control of broadband fiber-wireless signals*
- *Optical devices and systems for Fiber-Wireless signal generation, processing and transmission*
- *Photonic transceivers for Fiber-Wireless network applications*
- *Integrated Photonic technologies for Fiber-Wireless network applications*
- *Photonic Systems for antennas and beamforming*