

# PHOTONIC TECHNOLOGIES FOR OPTICAL FIBER- WIRELESS SEAMLESS DATA CONNECTIVITY

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In this talk we will review recent results in the area of photonic technologies applied to realizing ultra-high capacity wireless links that are seamlessly integrated with optical fiber data links for short range end-user connectivity.

**Idelfonso Tafur Monroy** is currently Professor and head of the metro-access and short range communications group of the Department of Photonics Engineering at the Technical University of Denmark. He graduated from the Bonch-Bruевич Institute of Communications, St. Petersburg, Russia, in 1992, where he received a M.Sc. degree in multichannel telecommunications. In 1996 he received a Technology Licenciante degree in telecommunications theory from the Royal Institute of Technology, Stockholm, Sweden. The same year he joined the Electrical Engineering Department of the Eindhoven University of Technology, The Netherlands, where he earned a Ph.D. degree in 1999 and worked as an assistant professor until 2006. He has participated in several European research framework projects in photonic technologies and their applications to

communication systems and networks. At the moment he is involved in the ICT European projects GiGaWaM and EURO-FOS and is the technical coordinator of the ICT-CHRON project. His research interests are in hybrid optical-wireless communication systems, high-capacity optical fiber communications, digital signal processing for optical transceivers for baseband and radio-over-fiber links, application of nanophotonic technologies in the metropolitan and access segments of optical networks as well as in short range optical-wireless communication links.