



UNIVERSITÀ
DI PAVIA

Ph.D. Program in Electronics, Computer Science and Electrical Engineering
Ph.D. Program in Microelectronics

SEMINAR

“Huawei Photonics R&D – A vertically integrated Company”

Michele RE
Huawei Technologies Italia S.r.l. -

Wednesday 07 June 2023, h. 14:00

Magenta Seminar Room (D Floor)

Online: <https://us02web.zoom.us/j/84396245483>

Abstract - The R&D activities of Huawei in the field of Optical Communication will be presented, with particular attention to Photonics. Huawei is one of the few Telecom Equipment manufacturers that has a complete vertical integration of the technologies involved in the field, from basic semiconductor materials to network equipment and management. Emphasis will be specifically given to HiSilicon Department, which is the “Technology arm” of Huawei, providing Chipset design and manufacturing for all Huawei Businesses. A survey of such technologies will be given (Silicon Photonics, III-V devices, Optical RFIC, Components and Packaging design and test ...), highlighting the activities that mostly involve the Milan Research Center and other RCs in Europe, and the skills and competencies that are needed by researchers. Some applications currently under investigation also through cooperation with EU institutions will be shown.

Bio - Michele G. Re received his Laurea degree with Honor in Electronic Engineering from the Politecnico di Milano. He spent all his career in the field Optoelectronics for Telecommunication, starting in 1988 in Telettra (a former Italian Telco Company) dealing with optical receivers, then moving to GaAs laser design. He joined Pirelli in 1994, assuming several technical and managing roles, both in R&D and Operations and dealing with III-V laser design, technology and manufacturing, LiNbO₃ devices, optical components packaging design and technology. He then was with Corning Inc. acting as Program Manager for the new R&D and Manufacturing Plant for optical components in San Donato Milanese. When back to Pirelli Photonics in 2004, he was Plant Director and R&D manager for OE Components. Since 2014 he is with Huawei Technologies Italia in the Milan Research Center.

Organizer

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