



# ICMOVPE XXII

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## **Dr. Emanuele Pelucchi**

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Dr. Emanuele Pelucchi, Head of group, Tyndall National Institute-UCC. Head of Epitaxy and Physics of Nanostructures (EPN) group, and responsible of the MOVPE facility.

Dr Pelucchi started his PhD in April 1997, working in the field of surface science and molecular beam epitaxy (MBE). His research covered MBE of II-VI materials on III-V substrates, photoemission applied to interface physics and metal-semiconductor Schottky barriers. He moved to Lausanne (EPFL) in 2001 as a research assistant (post-doc), in the group of Professor Eli Kapon. He participated to the development of the research concerning metalorganic vapour phase epitaxy (MOVPE) of site controlled III-V nanostructures, working on both V-groove quantum wires and Pyramidal QDs. In May 2006 Dr Pelucchi was awarded with a Science Foundation Ireland Principal Investigator Grant. In January 2007 moved to Tyndall National Institute. where he runs the national MOVPE facility and various quantum technology projects.

Research Interests: Dr. Pelucchi has very broad interests, spanning from surface science and epitaxy to quantum optics. He has recently acquired a relevant role in MOVPE epitaxy, having developed world leading III-V material quality and growth process understanding, while uniquely demonstrating arrays of site-controlled quantum dots and entangled photon emitters.