



P46: University College London - UCL (United Kingdom)

Description of expertise & activities

University College London, UK (UCL) – University College London is the 3rd oldest university in England and the first to form a Department of Electrical Engineering. The department has 30 full-time academic members of staff and 4 main research groups of which academic staff from three groups, Photonics, Optical Networks and Telecommunications, Networks, Circuits & Systems, will participate in the network. Research expertise includes fibre-radio systems, optical communication network architectures, fast channel hopping WDM systems, optical burst-switched networks, metropolitan area networks based on uncooled WDM optical transmission and high-speed (40 Gbit/s) multi-wavelength (WDM) optical fibre transmission including wavelength conversion. Facilities include spectrum and vector network analysis to 110 GHz, fibre-radio system testing in multimode and single mode fibre, at frequencies from 2.4 GHz to > 60 GHz and re-circulating loop transmission test systems to 40 Gbit/s.

Tasks within BONE

See individual WP descriptions.

Key personnel

Dr **John Mitchell** (Principal Investigator) received his BEng in Electronic and Electrical Engineering and PhD from the department of Electronic Engineering at University College London in 1996 and 2000 respectively. In 2000 he was appointed as a Lecturer in the department of Electronic Engineering at University College London, becoming Senior Lecturer in 2006.

Professor **Alwyn Seeds** received the Ph.D. degree in 1980 and the D.Sc. degree in 2002, both from the University of London. From 1980 to 1983 he was a Staff Member at Lincoln Laboratory, Massachusetts Institute of Technology. He returned to England in 1983, to take up a lectureship in telecommunications at Queen Mary College, University of London, moving to University College London in 1986, where he is now Professor of Opto-electronics, Head of Department and Head of the Photonics Group.

Professor **Polina Bayvel** FREng, FIEE, FInstP, SMIEEE was a Royal Society University Research Fellow (1993-2003) and is Professor of Optical Communications and Networks and leads the Optical Networks Group at She received her BSc(Eng) and PhD degrees in Electronic & Electrical Engineering from University College London (UCL) in 1986 and 1990, respectively.

Professor **Izzat Darwazeh** obtained his first degree in Electrical Engineering from the University of Jordan in 1984. He obtained the MSc and PhD degrees, from the University of Manchester Institute of Science and Technology (UMIST), in 1986 and 1990, respectively. He moved to University College London in October 2001 gaining the Chair of Telecommunications Engineering in 2006.

Dr **Robert Killey** received the B.Eng degree from the University of Bristol in 1992 and the M.Sc. in Microwaves and Optoelectronics from UCL in 1994. He received the D.Phil. degree from the University of Oxford in 1998. Following this, he was a Research Fellow with the Optical Networks Group at University College London and was appointed Lecturer at UCL in 2000, becoming Senior Lecturer in 2005.

Dr Seb Savory

Dr Cyril Renaud

Dr Darren Shea