

# **Andrew Ellis**

**Professor of Optical Communications/Deputy Director of the Aston Institute of Photonics Technology (AIPT) at Aston University**

Birmingham, , GB

Professor Ellis researches optical superchannels and advanced passive optical networks for the delivery of Tbit/s class broadband.

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## **Biography**

Andrew D. Ellis received the B.Sc. degree in physics with a minor in mathematics from the University of Sussex, Brighton, U.K., in 1987. He received the Ph.D. degree in electronic and electrical engineering from The University of Aston in Birmingham, Birmingham, U.K., in 1997 for his study on all optical networking beyond 10 Gb/s. He previously worked for British Telecom Research Laboratories as a Senior Research Engineer investigating the use of optical amplifiers and advanced modulation formats in optical networks and the Corning Research Centre as a Senior Research Fellow where he led activities in optical component characterization. From 2003, he headed the Transmission and Sensors Group at the Tyndall National Institute in Cork, Ireland, where he was also a Member of the Department of Physics, University College Cork and his research interests included the evolution of core and metro networks, and the application of photonics to sensing. He is currently 50th anniversary professor of optical communications at Aston University where he is also the Deputy Director of the Institute of Photonics Technologies, and he holds adjunct professorships from University College Cork (Physics) and Dublin City University. He has published more than 200 journal papers and more than 30 patents in the field of photonics, primarily targeted at increasing capacity, reach and functionality in the optical layer. He currently manages projects investigating; optical superchannels for mutli-terabit/s optical transponders, advanced passive optical networks for the delivery of Tbit/s class broadband, and the compoensation of nonlinear effects for the extension of transmission reach. He is a Life Fellow of the Optical Society of America, and served for 6 years as an Associate Editor of the Journal Optics Express. He was a Member of the Technical Program Committee of ECOC form 2004 to 2018, chairing sub-committee 3 at ECOC devoted to digital and optical signal processing in 2014, and served two three year terms on the TPC of OFC. He has also been TPC member for Photonics Ireland, CLEO Europe, and OECC. He recently participated in the organization of ECOC 2019 as co-chair of the Technical Programme Committee.

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## **Areas of Expertise**

5G, Broadband, Optical communications, Photonics, Signal Processing

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## **Affiliations**

Optical Society of America : Life Fellow, Institute of Physics : Member

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## **Education**

**University of Sussex**  
BSc Physics

**Aston University**  
PhD Electronic and Electrical Engineering

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