

Anniversary Workshop Speakers



Forty Years of ISLC: Laser Diode Materials, Growth, Structures, and Performance

Prof. James J. Coleman

(Univ. of Texas at Dallas, USA)

James J. Coleman received degrees in electrical engineering from the University of Illinois, Urbana. At Bell Laboratories, Murray Hill, NJ, he contributed to the development of long wavelength 1.3 μm InGaAsP CW room temperature diode lasers grown by liquid phase epitaxy (LPE). At Rockwell International, Anaheim, CA, he studied MOCVD-grown heteroface AlGaAs solar cells, low-threshold single mode AlGaAs-GaAs double heterostructure lasers and quantum well heterostructure laser devices. He was professor of Electrical and Computer Engineering at the University of Illinois, Urbana for 31 years. He and his students studied 980 nm strained-layer InGaAs lasers, narrow linewidth DBR lasers, integrated lasers and other photonic devices by selective-area epitaxy, and the growth processes for quantum dot lasers. In 2013, he joined the University of Texas at Dallas.

Professor Coleman was president of the IEEE Photonics Society and has been awarded the John Tyndall Award, the SPIE Technical Achievement Award, the IEEE David Sarnoff Award, the Nick Holonyak Award, the ISCS Welker Award, and the IEEE Photonics Society William Streifer Award. He is a member of the US National Academy of Engineering and a Fellow of the IEEE, OSA, SPIE, APS and AAAS.