Seminar Series

Advanced Specialty Optical Fibers for Emerging Applications

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Abstract

Optical fiber is certainly one of the few technologies which have profoundly changed our lives and society. It formed the backbone of our high speed telecommunications networks spanning around the globe, which give us the high speed internet, allowing us to communicate and to exchange vast volumes of information across the globe at ease.

In the last decade or so, optical fibers, which started in telecommunications, have significantly impacted many areas of applications from metrology to high power industrial lasers. In this talk, Dr. Dong will cover some recent work in the development of advanced specialty optical fibers for high power lasers and nonlinear optical processes.

Biography of Speaker

Dr. Dong obtained his B.S. degree in electronics from Harbin Institute of Technology, Harbin, P.R. China, in 1985, M.S. degree in digital electronics and telecommunication from University of Manchester Institute of Science and Technology, UK, in 1987, and Ph.D. degree in fiber optics from Southampton University, UK, in 1991. After working with the Optoelectronics Research Center, Southampton University for seven years, he joined Corning Inc., in 1998. He had also worked with Corvis Corporation and Lightwaves2020. He is currently a senior R&D manager at IMRA America. He has broad technical interests covering many areas of guided wave optics, including specialty optical fibers, fiber lasers, fiber Bragg gratings, mode-coupling-based devices, nonlinear optics, and numerical modeling. He has ~200 journal and conference papers and presented numerous invited talks. He has also been very active in the communities of fiber optics, serving as associated editor, conference committee member, and workshop organizer.