



The 14th OptoElectronics and Communications Conference

Hong Kong

13 – 17 July 2009

Plenary

Innovative and Cost Effective Optical Components for Fiber Communications

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Abstract

This presentation will be an introduction on optical components development in FiberHome Technologies Corp. (Wuhan Research Institute of Post and Telecommunication (WRI)). Passive components (for fiber communications) like tunable filters, tunable dispersion compensation module, variable power splitter, variable attenuator and ROADM will be addressed. New technologies to manufacture active components (for fiber communications) like DFB laser, VCSEL and APD will be discussed. The two optical components companies in FiberHome: Accelink Technologies Inc. and Wuhan Telecommunication Device Inc., are currently the top two optical components companies in China in term of revenues. In July 2009, Accelink will become the first Chinese IPO company in fiber communications component industry.



Wen Liu

Liu Wen obtained his Bachelor degree in 1983 and his Ph.D. in 1989 from the University of Science and Technology of China. He was a Post Doctorate Fellow of McMaster University in Canada in 1996–1997.

Liu is currently the Deputy Chief Technological Officer of WRI, FiberHome Technologies Group; Chief Technological Officer of Accelink Technologies Inc. He is also a Chang Jiang Scholar and a part-time professor at Huazhong University of Science and Technology. Liu was Chief Technological Officer of Solid State Device Institute of Post and Telecommunication Ministry from 1992 to 1996.

While abroad, Liu was a chief designer in surface acoustic wave devices for 3G application in Wireless Technology Laboratory of Northern Telecom of Canada (NORTEL) and received the President Award of NORTEL in 2000. Liu also worked for NanoOpto Corp. in New Jersey as a senior designer. NanoOpto was listed as one of the top 50 Companies by “Scientific American” in 2003 for its breakthrough in practical uses of Nano-Optic Technology.

After returning to China, Liu has attained more than 20 Chinese and foreign patents for FiberHome and received titles of “Outstanding Entrepreneurs in Hubei Province” from Hubei Provincial Government in 2004, and “Outstanding Contribution Award” for overseas Chinese Professionals from China State Council in 2005.