



*Photonics Seminar, Center for Advanced Research in Photonics  
Institute of Optical Science and Technology (IOSAT)  
The Chinese University of Hong Kong*

*Properties of Planar Lightwave Circuit (PLC) Devices Fabricated by  
Silica and Polymers*

**Date: 9 February (Monday), 2004**

**Time: 10:30 a. m. – 12:00 noon**

**Location: HSH Engineering Building, Room 418**

**Speaker: Dr. Tohru Maruno, Executive Manager, Hyper-photonic Component  
Laboratory, NTT Photonics Laboratories, Atsugi, Kanagawa, Japan**

**Abstract:**

Recently, photonic networks based on wavelength division multiplexing (WDM) systems have developed considerably in response to the explosive growth of the Internet. Devices with novel functions are required for photonic networks, and planar lightwave circuits (PLCs) are being considered to meet this need. This presentation reports recent progress on PLC-type devices with advanced functions developed for the photonic networks. We describe fabrication techniques and device applications for silica and polymer based PLC technologies.

**Bio.: Tohru Maruno, Ph. D**

Executive Manager, Hyper-photonic Component Laboratory, NTT Photonics Laboratories. In 1980, he joined NTT Electrical Communications Laboratories, Tokyo, Japan, where he engaged in research on optical materials, organic thin films, and guided-wave optical devices.

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