



SEMINAR

**Center for Advanced Research in Photonics
&
Department of Electronic Engineering
The Chinese University of Hong Kong**

Extended-Reach Gigabit Passive Optical Network for Rural Areas

Alan Lee

Centre for Ultra-Broadband Information Networks (CUBIN)
Department of Electrical and Electronic Engineering
The University of Melbourne, VIC 3010, Australia

Date : 30th April, 2010 (Friday)

Time : 3:00 p.m.

Place : Rm 222 Ho Sin Hang Engineering Bldg., CUHK

Abstract

Due to the rapid increases in bandwidth-intensive multimedia services, broadband service subscribers will require more than 30 Mb/s of guaranteed bandwidth per user. While competitive service providers already offer solutions for urban and suburban areas, there is less commitment to provide broadband to rural areas. Among different technologies, extended-reach Gigabit passive optical networks (GPONs) are considered to be a cost-effective approach to achieve a relatively high bandwidth over a long distance. In this talk, we summarise some of our recent research activities in this area.

About the Author

Alan Lee received his M. Phil., and Ph. D degree in Department of Electronic Engineering from the Chinese University of Hong Kong, in 2000 and 2003 respectively. In May 2004, he joined the University of Melbourne and has been working actively in the photonics areas, from core networks to extended-reach access networks. He is currently a senior research fellow at the Centre for Ultra-Broadband Information Networks (CUBIN), The University of Melbourne. His research interests include passive optical network, radio over fibre, microwave photonic and optical signal processing.

***** All are welcome to attend *****

For further information contact Prof. Chester Shu at 2609 8258