

**The Hong Kong University of Science and Technology  
Department of Electronic and Computer Engineering and IEEE  
LEOS (Hong Kong Chapter)**

**JOINT SEMINAR**

**Gallium Arsenide Electro-Optic Waveguide Devices**

**by Dr. John Heaton RFMD (UK) Ltd**

**Abstract**

This talk will describe the main results of Dr. Heaton's work in the field of gallium arsenide electro-optic waveguide technology and will cover: 1) electro-optic phased array beam steering devices, 2) multi-mode interference (MMI) couplers and MMI based electro-optic switches, 3) high speed Mach Zehnder modulators for long-haul telecoms applications, 4) novel linear modulators for analogue signal transmission, and 5) waveguide polarization converters.

**Biography**

John Heaton has worked on electro-optic waveguide devices in gallium arsenide for over twenty years. He was involved in the original development of multi-mode interference (MMI) components and more recently he has worked on high-speed RF modulators for long-haul telecoms digital and analogue applications. John Heaton graduated with a First Class Honours BSc in Physics from Bristol University (UK) in 1982 and with a D.Phil. on dynamic volume holography in photorefractive materials from Oxford University (UK) in 1986. He has worked for the UK companies QinetiQ and Filtronic and now works for RFMD (UK) Ltd. He has published more than thirty peer reviewed journal papers and is an inventor on ten patents..

DATE : 17 April 2008 (Thursday)

TIME : 4:00pm-5:00 pm

VENUE : Room2512 (ECE Conference Room), 2/F (lift 25, 26), HKUST

~ ALL ARE WELCOME ~