

City University of Hong Kong
Department of Electronic Engineering &
IEEE Photonics Society Hong Kong Chapter
Present a Seminar on

Integrated Optoelectronic Technologies at Glasgow University

by

Dr. Marc Sorel
University of Glasgow

Date : 25 June 2013 (Tuesday)

Time : 11:00 am – 12:00 nn

Venue : B5307, 5/F, Green Zone, Academic Building 1,
City University of Hong Kong

Abstract

The Optoelectronics Group at the University of Glasgow has been engaged in theoretical and experimental research on integrated optoelectronics for several decades. The group has established a world-renown expertise in the area of optoelectronic semiconductor device integration and has pioneered a number of breakthroughs. The talk will provide an overview on the recent developments of the various research activities at Glasgow University in the field of integrated optoelectronics and will discuss future directions. The topics covered by the talk will include ultrafast semiconductor lasers for mm-wave generation and future telecom systems, ring lasers for all-optical processing, antimonide LEDs for gas sensing and silicon photonic devices for applications that range from non-linear optoelectronics, signal filtering and slow light.

X. Cai, et al., “*Integrated Compact Optical Vortex Beam Emitters*,” *Science*, vol. 338, no. 6105, pp. 363–366, Oct. 2012.

F. Morichetti, et al., “*Travelling-wave resonant four-wave mixing breaks the limits of cavity-enhanced all-optical wavelength conversion*”, *Nature Communications* 2, 296, May 2011

Biography

Marc Sorel was awarded a Laurea degree cum laude in Electrical Engineering in 1995 and a PhD degree in 1999, both from the Università di Pavia. He joined the University of Glasgow in 1998 as a Marie-Curie Fellow where he became Lecturer in 2001 and Senior Lecturer in 2008. He leads the strong Glasgow research theme of silicon photonics and ring lasers. He has been involved in several EU and National projects on slow light in silicon photonics, semiconductor micro-ring lasers, integrated semiconductor gyroscopes, fast tunable semiconductor lasers, chirped Bragg grating for pulse shaping and mode-locked semiconductor lasers. He has published over 100 research papers that attracted over 3000 citations (h-index of 27) and serves in several conference scientific committees including ECIO, Photonics North and CLEO Europe.

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