**学术报告信息**

**报告题目：**Impact of Photonic Integration in Data Communications

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**时间：**2015年12月07日（星期一）上午10点-12点

**地点：**微电子大楼401会议室

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**Abstract:** The recent advancements in photonic integration for applications related to short-reach data communications has given a new life to the development of optical interconnects and networks where optical systems can now be implemented onto a single die. As seen with electronics where integration has an impact on the advancement of data processing capabilities, photonic integration brings value and has become a strong asset for effective deployment of optical switching networks as well as an enabler in innovative system architectures. The intention of this seminar is to present recent experimental demonstrations illustrating the impact of photonic integration on the design and implementation of optical interconnection networks towards modern computing platforms. Specifically, the seminar will discuss devices and subsystems related to switches and transceivers, as well as research development related to inter-chip and intra-chip interconnects. The seminar will also present innovating prototyping enabled by the co-design and co-packaging of opto-electronics with electronic integrated circuits and controllers. Finally, innovative interconnects exploiting plasmonic modes will be presented as well as new on-chip approaches enabled by mode division multiplexing.

**Biography:** Prof. Odile Liboiron-Ladouceur is an Associate Professor in the Electrical and Computer Engineering Department at McGill University (Montreal, Canada), and holds the Canada Research Chair in Photonic Interconnects. She obtained the B. Eng. degree in electrical engineering from McGill University, Montréal, Canada, in 1995 and the M.S. and Ph.D. degrees in electrical engineering from Columbia University, New York, in 2003 and 2007, respectively. Prior to her graduate studies, she worked two years as a test engineer at Texas Instruments in Dallas from 2000 to 2002, and one year as an applications engineer at Teradyne in Boston from 1999 to 2000. She has authored or co-authored more than 30 papers in peer-review journals, and 75 papers in conference proceedings.  She is a senior IEEE member, an associate editor of the IEEE Photonics Technology Letter, and the IEEE Photonics Society Montreal Chapter Chair. She is a co-investigator of the Silicon Electronic-Photonic Integrated Circuits (Si-EPIC) Program, providing advanced training to students across Canada in Silicon-based photonic integration. Her research interests include interconnects for data communications, photonic integrated circuits, and optical systems.