

*3rd INTERNATIONAL CONFERENCE*

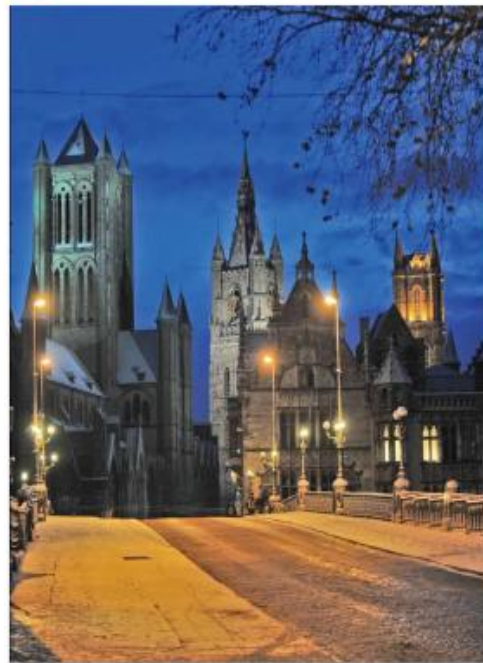
*ON SILICON PHOTONICS*



- North America Core Center : Lionel C. Kimerling (MIT)
- Europe Core Center : Roel Baets (Ghent Univ.)
- Japan Core Center : Kazumi Wada (Univ. of Tokyo)

***Ghent University, Ghent, Belgium***

***January 24, 2011***



***January 28, 2011***

***Massachusetts Institute of Technology***

***Cambridge, USA***



## 3<sup>rd</sup> INTERNATIONAL CONFERENCE ON SILICON PHOTONICS

**Date:** Monday, January 24, 2011

**Place:** IVPV-room, Campus Zwijnaarde, Ghent University

### *Program*

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9:30 - 10:00 Welcome and coffee

10:00 - 10:10 Opening Address

R. Baets (Ghent Univ.)

10:10 - 10:40 “Recent progress in Si Photonics in Japan”

K. Wada (Univ. Tokyo)

10:40 - 10:55 “Application of Si Photonic Crystal to Er<sub>2</sub>Y<sub>2</sub>-xSiO<sub>5</sub> Crystal Waveguide Amplifiers”

T. Sato (Univ. Electro Communications.)

10:55 - 11:10 “Emission Wavelength Tuning via Mechanically Stressing Using a GaAs-on-Si Microbeam”

Y. Horie, L. Décosterd, Y. Ishikawa and K. Wada (Univ. Tokyo)

11:00 - 11:30 “Phase-matched Second-harmonic Generation in High-index-contrast AlGaAs Waveguides”

T. Matsushita (Univ. Tokyo)

11:30 - 11:45 “Stain Engineering for Controlling Operation Wavelength of Ge EA Modulator”

R. Kuroyanagi, Y. Ishikawa and K. Wada (Univ. Tokyo)

11:45 - 12:15 “Er<sub>2</sub>Y<sub>2</sub>-xSiO<sub>5</sub> Crystal Preparation by the Layer-by-layer Deposition and its Application to the Waveguide Devices”

H. Isshiki, K. Iwatani, T. Shinagawa, T. Nakajima and T. Kimura (Univ. Electro-Communications)

12:15 - 13:30 Lunch Break

13:30 - 14:00 “The European Silicon Photonics Cluster and the HELIOS Project”  
L. Fulbert (CEA-LETI)

14:00 - 14:15 “Microdisk Lasers for Optical Interconnects and Optical Logic”  
G. Morthier, R. Kumar, P. Méchet, T. Spuesens (Ghent Univ.)

14:15 - 14:30 “Silicon Hybrid DFB/DBR Lasers”  
G. Roelkens, S. Keyvaninia, S. Stankovic, M. Tassaert, Y. De Koninck, D. Van Thourhout, R. Baets (Ghent Univ.)

14:30 - 14:45 “Silicon Photonics: Moving towards the Mid-infrared”  
G. Roelkens, N. Hattasan, A. Gassenq (Ghent Univ.)

14:45 - 15:15 “Gas Cluster Ion Beam Process for Si Photonics”  
N. Toyoda and I. Yamada (Univ. Hyogo)

15:15 - 15:35 Coffee break

15:35 - 15:50 “Silicon Biosensors”  
P. Bienstman, T. Claes, E. Hallynck, S. Werquin, C. Lerma (Ghent Univ.)

15:50 - 16:05 “Athermal AWGs in SOI”  
L. Wang, W. Bogaerts, G. Morthier (Ghent Univ.)

16:05 - 16:20 “ePIXfab, the silicon photonics MPW platform”  
P. Dumon (Ghent Univ.)

16:20 - 16:30 Closing Address