

# Program of the 5<sup>th</sup> Silicon Photonics Meeting

January 23, 2007 (Tue) @ The Eng Building #11. Auditorium, Univ. of Tokyo

## Session 1: "Si Photonics in Asia" organized by K. Wada (Univ. of Tokyo)

- 10:00-10:05 K. Wada (Univ. of Tokyo), "Introductory"  
10:05-10:35 T. Kimura (Univ. of Electro-Communications)  
(invited) "Recent Progress of Si photonics in Japan"  
10:35-11:05 <sup>1</sup>H.K. Tsang, <sup>1</sup>S.P. Wong, <sup>2</sup>A.W. Poon (1: Chinese University of Hong Kong, 2: Hong Kong Univ. of Science & Technology)  
(invited) "Recent progress of silicon photonics in Hong Kong"  
11:05-11:35 JH. Shin, (KAIST)  
(invited) "Recent progress of silicon photonics in Korea"(tentative)  
11:35-12:05 JZ. Yu (Chinese Academy of Science)  
(invited) "Recent progresses of Si-based photonics in Institute of Semiconductors of Chinese Academy of Sciences"

Lunch 12:05-13:30

## Session 2 "System application of Si Photonics" organized by S. Kawanishi (NTT)

- 13:30-14:00 S. Nishimura (Hitachi)  
(invited) "Challenges of large throughput network systems and requirements for silicon photonic technologies."  
14:00-14:30 T. Nakata (NEC)  
(invited) "Expectations for photonics technology from the computer system side."

Discussion & Coffee Break 14:30-15:00

## Session 3 "Si Photonics" organized by H. Isshiki (Univ. of Elect. Comm.) and K. Yamada (NTT)

- 15:00-15:30 S. Saito (Hitachi),  
(invited) "Silicon light-emitting transistor for on-chip optical interconnection"  
15:30-15:45 T. Tanabe, K. Yamada, K. Nishiguchi, E. Kuramochi, A. Shinya, H. Inokawa, S. Kawanishi, M. Notomi (NTT)  
"Optical pulse train modulation of 5-GHz return to zero signal using silicon photonic crystal optical nanocavity and an investigation for boosting of the switching speed."  
15:45-16:00 T. Watanabe, T. Tsuchizawa, H. Fukuda, K. Yamada, H. Shinjima, S. Iabashi (NTT)  
"Characteristics of cascaded MMI branches using Si photonic wire waveguides."  
16:00-16:15 <sup>1</sup>J. Xia, <sup>1</sup>K. Nemoto, <sup>1</sup>Y. Ikegami, <sup>2</sup>N. Usami, <sup>1</sup>Y. Shiraki (1: Musashi Inst. of Tech., 2: Tohoku Univ.)  
"Room-temperature light-emission from silicon photonic crystal micro-cavities with Ge quantum dots."  
16:15-16:30 <sup>1,2</sup>T. Maruyama, <sup>1</sup>T. Okumura, <sup>1</sup>M. Kanemaru, <sup>1</sup>S. Sakamoto, <sup>1,2</sup>S. Arai (1: Tokyo Inst. of Tech., 2: JST)  
"Integrated Waveguide-based BH-DHB Semiconductor Thin Film Lasers"  
16:30-16:45 <sup>1,2</sup>S. Nakamura, <sup>1,2</sup>T. Chu, <sup>1,2</sup>A. Gomyo, <sup>1,2</sup>J. Ushida, <sup>3</sup>H. Yamada, <sup>4</sup>S. Ishida, <sup>4</sup>Y Arakawa (1: NEC, 2: OITDA, 3: Tohoku Univ., 4: Univ. of Tokyo)

"Transmission and Add-Drop Multiplexing of WDM optical signal using R-OADM module based on silicon photonic crystal."

16:45-16:50 K. Ohashi (NEC), "Concluding remarks"