

---

**Room A (Lotus Hall 1)**

**Session Title [TuA3] WDM-PON Technologies and Its Application**

**Session Chairs** Ezra Ip (NEC, USA), Hosung Yoon (KT, Korea)

**Date** July 13, 2010 (Tuesday)

**Time** 15:30-17:30

---

**TuA3-1 15:30-16:00 [Invited] Network Infrastructure for Giga Internet Service : Trial Deployment and Prospects**

Hyungjin Park, Jaehyoung Park, and Jinhee Kim (KT Network R&D Lab., Korea)

**TuA3-2 16:00-16:15 High-Capacity WDM Regional Access Networks Based on a Hierarchical Star-Ring-Bus Architecture**

Shu-Tsung Kuo, Ming-Seng Kao, and Peng-Chun Peng (Nat'l Chiao-Tung Univ., Taiwan)

**TuA3-3 16:15-16:30 New Architecture for Reconfigurable WDM-PON Networks Based on SOA Gating Array**

Hyun-Do Jung, Nguyen-Cac Tran, Eduward Tangdionga, and Ton Koonen (Eindhoven Univ. of Tech., The Netherlands)

**TuA3-4 16:30-16:45 A Pre-Spectrum-Sliced Seed Light Source for Multiple Spectrum-Sliced WDM-PONs Based on R-SOAs**

Han Hyub Lee, Seung-Hyun Cho, Jie Hyun Lee, and Sang Soo Lee (ETRI, Korea)

**TuA3-5 16:45-17:00 Wavelength-Dependent Characteristics of RSOA for Color-Free Operations**

Jong Hoon Lee, Jie Hyun Lee, Seung-Hyun Cho, Eun-Gu Lee, Han Hyub Lee, and Sang-Soo Lee (ETRI, Korea)

**TuA3-6 17:00-17:15 Improving Transmission Performance in EIN Limited 2.5 Gb/s Spectral Slicing Loop-Back WDM-PON Based on RSOA Employing the Dispersion Management**

Seung-Hyun Cho, Jie Hyun Lee, Jong Hoon Lee, Eun-Gu Lee, Han-Hyub Lee, Eui-Suk Jung, and Sang Soo Lee (ETRI, Korea)

**TuA3-7 17:15-17:30 Enhancement of Reflection Tolerance in a Bidirectional WDM-PON Based on RSOA Employing Near-Threshold Operated DFB Laser as a Seed Light**

Jie Hyun Lee, Seung-Hyun Cho (ETRI, Korea), Youn Seon Jang (Chungnam Nat'l Univ., Korea), and Sang-Soo Lee (ETRI, Korea)