

Advance Technical Program

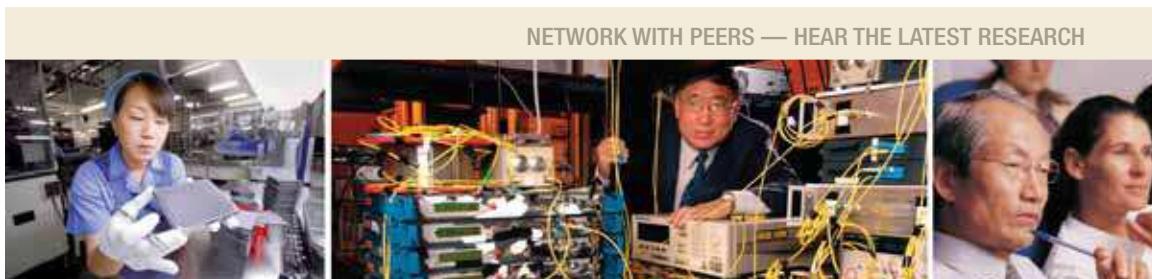


Asia-Pacific Optical Communications

Conference + Courses: 1–5 November 2007

Co-located with OVC EXPO'07

Wuhan Science & Technology Convention & Exhibition Center
Wuhan, China



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- ▶ **Passive Components and Fiber-Based Devices**
 - ▶ **Optoelectronic Materials and Devices**
 - ▶ **Optical Transmission, Switching, and Subsystems**
 - ▶ **Network Architectures, Management, and Applications**
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Sponsored by:

SPIE

Chinese Optical Society (COS)

China Institute of Communications (CIC)

The People's Government of Wuhan Municipality

Cooperating Organizations:

Wuhan National Lab. for Optoelectronics (WNLO)

**The Productivity Promotion Center of Wuhan East Lake
Hi-Tech Development Zone**

Wuhan Research Institute of Posts and Telecommunications

The State Optoelectronic & Information Industry Base of China

Conference 6783

Optical Transmission, Switching, and Subsystems (APOC03)

Conference 6784

Network Architectures, Management, and Applications (APOC04)

Monday 5 November

Room 4

08.30 to 10.00

SESSION 10a OCDMA

Chair: Elaine Wong, The Univ. of Melbourne (Australia)

08.30: **Hybrid WDM/OCDMA for next generation access network (Invited Paper)**, X. Wang, N. Wada, T. Miyazaki, National Institute of Information and Communications Technology (Japan); G. Cincotti, Univ. degli Studi di Roma Tre (Italy); K. Kitayama, Osaka Univ. (Japan) [6783-82]

09.00: **Analysis of pulse width and chip length on DS-OCDMA system**, Y. Zhang, S. Xie, Tsinghua Univ. (China) [6783-83]

09.15: **Performance analysis of phase-encoded OCDMA system using superstructured fiber Bragg gratings**, X. Chen, D. X. Huang, X. Yuan, Huazhong Univ. of Science and Technology (China) [6783-84]

09.30: **Sensitivity analysis of coherent ultrashort light pulse CDMA communication system with respect to dispersion**, V. Ataie, K. Jamshidi, Sharif Univ. of Technology (Iran) [6783-85]

09.45: **OCDMA-PON with chaotic spread spectrum sequence**, L. Yang, G. Shou, Z. Qian, Y. Hu, Z. Guo, Beijing Univ. of Posts and Telecommunications (China) [6783-86]

Coffee/
Tea Break 10.00 to 10.30

Room 5

08.30 to 10.00

SESSION 10b Optical Processing I

Chair: Norihiko Nishizawa, Osaka Univ. (Japan)

08.30: **Chromatic dispersion induced PM-AM conversion and its application in the all-optical clock recovery of NRZ-DPSK signals**, M. L. Tang, S. Fu, W. Zhong, Nanyang Technological Univ. (Singapore); Y. J. Wen, Institute for Infocomm Research (Singapore); P. Shum, Nanyang Technological Univ. (Singapore) [6783-105]

08.45: **Theoretical and experimental study on 10GHz all-optical packet clock recovery**, W. Wang, J. Yu, A. Zhang, Y. Cui, H. Hu, B. Han, L. Zhang, Tianjin Univ. (China) [6783-106]

09.00: **Progress in system design using integrated multi-element interferometric switches (Invited Paper)**,

H. Avramopoulos, E. Kehayas, G. T. Kanellos, L. Stampoulidis, National Technical Univ. of Athens (Greece); G. Theophilopoulos, Univ. of Patras (Greece) [6783-107]

09.30: **All-optical regenerative multicasting at 4x10Gb/s for WDM based on an SOA and a single optical source**, L. Zhang, J. Yu, H. Hu, A. Zhang, W. Wang, Y. Jiang, W. Jing, E. Yang, Tianjin Univ. (China) [6783-108]

09.45: **All-optical clock recovery from NRZ signal through preprocessing by single narrow-band filter**, Y. Yu, X. Zhang, D. X. Huang, Huazhong Univ. of Science and Technology (China) [6783-109]

Coffee/
Tea Break 10.00 to 10.30

Room 6

08.30 to 10.00

SESSION 10 Transport MPLS

Chair: Itaru Nishioka, NEC Corp. (Japan)

08.30: **Adaptability of optical multi-service transport networks (Invited Paper)**,

J. Zhang, W. Gu, Beijing Univ. of Posts and Telecommunications (China) [6784-73]

09.00: **Controlling mechanism for dual label transport in T-MPLS**, B. Li, K. Liu, S. Huang, Y. Zhang, W. Gu, Beijing Univ. of Posts and Telecommunications (China) [6784-74]

09.15: **Modeling and simulation of T-MPLS network**, B. Li, J. Li, Y. Deng, Y. Zhang, W. Gu, Beijing Univ. of Posts and Telecommunications (China) [6784-75]

09.30: **Carrier class metro ethernet services over T-MPLS packet transport networks**, Z. Li, J. Wu, Y. Zhang, W. Gu, Beijing Univ. of Posts and Telecommunications (China) [6784-76]

09.45: **A hardware design on node in transport MPLS packet network based on FPGA**, J. Wu, Beijing Univ. of Posts and Telecommunications (China) [6784-77]

Coffee/Tea Break 10.00 to 10.30