OFC 2008

Optical-Wireless Integration Workshop

Sponsored by the IEEE Communications Society sub-Technical Committee on Optical-Wireless Integration (FiWi)

www.ascu.buffalo.edu/~vpsankar/index.htm

San Diego, CA
February 25, 2008
8-11 AM

Steve Weinstein
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This workshop was organized by:

Chunming Qiao (SUNY-Buffalo), Chair, FiWi sub-TC
(After my comments, he will say a few words)
Sudhir Dixit (Nokia), Secretary
Hussein Mouftah (Univ. Ottawa), Vice Chair
Ting Wang (NEC Labs America), Vice Chair
Steve Weinstein (CTTC), industry liaison

Schedule
10 min Intro (Steve Weinstein & Chunming Qiao)
20 min talks (6)
20 min open audience/panel discussion at end

The speakers in this workshop

Prof. G. K Chang (Chair Professor in Optical Networks, Georgia Tech)
"Convergence of broadband optical and wireless access networks"

Prof. Ton Koonen (Chair Electro-Optical Communication Systems, COBRA Institute, Eindhoven Univ. of Technol.)
"Radio over multimode fibre networks"

Dr. Tod Sizer (Director, Broadband & Wireless Access Research Center, Alcatel-Lucent Bell Labs)
"Transport of wireless bandwidth over Ethernet networks"

(more)

Dr. Masatoshi Suzuki (Exec.Dir., KDDI R&D Labs)
"Optical network technologies for converged broadband fixed and mobile services"

Dr. Akio Tajima (Research Mgr, System Platforms Res. Labs, NEC Corporation)
"Next Generation PON System for Access Service Integration"

Dr. William Uliasz (Director, Access & Transport Network Architecture, Verizon Corporate Network & Technology)
"Verizon’s Optical Network Strategy"

Some optical/wireless questions

- Is there a cost advantage to integration?
-Where is integration best done - in core or access network?
- Analog or digital radio over fiber -?
- Applications of OFDM?
- How to realize end-to-end QoS across both optical and wireless parts?
- How does optical-wireless integration affect the wireless part?
  Multi-base station collaboration (a MIMO application)?
  Concentrating radio processing functions in optical nodes?
- Coordinated control (e.g. for wireless handoff) in both optical and wireless parts?
- Support of picocells in homes and offices?

A few words from Prof. Qiao, and then the talks.