

The 13th Annual Wireless & Optical Communication Conference 2004

WOCC 2004 at a Glance (March 8-10, 2004)

March 8



08:00~09:00	Registration		
09:00~09:10 (Room 101AB)	Opening Remarks		
	<p>Chair:Jingshown Wu, Vice President of NTU 吳靜雄 副校長 Guests:Che-Ho Wei, Chairman of NSC 魏哲和 主委 Chin-Yen Tsai, Minister of Taiwan Executive Yuan 蔡清彥 政委 Chi-Fu Deng, Chairman of NTP-I 鄧啟福 教授</p>		
10:00~18:00	Exhibition		
09:10~10:40 (Room 101AB)	Plenary Session 1 (Overall)		
	<p>Chair:Jin-Fu Chang, Chairman of NTP-II 張進福 校長 Speakers:The Many Facets of Technology Convergence in Telecommunication David Chang, President of Polytechnic U. 張鍾濬 校長 Interactive Multimedia & Intelligent Broadband – Key to Telecom Revival Bing-Hwang Juang, Professor, Georgia Institute of Technology 莊炳煌 教授 Twists and Turns in Fiber Optics – What’s Next? Pao-Lo Liu, Professor, SUNY at Buffalo 劉保羅 教授</p>		
10:40~10:50	Break		
10:50~12:20 (Room 101AB)	Plenary Session 2 (Wireless)		
	<p>Chair:Bao-Shuh Paul Lin, General Director of CCL – ITRI 林寶樹 所長 Speakers: The Dawn of Wireless Twilight Longsong Lin, Director of Intel IIC 林榮松 總監 Challenges in Developing 3G Handsets Chung-Ming Sun, VP of AsusTek Computer 孫聰敏 協理 A High Rate Wireless Packet Data System with Versatile QoS Support Yu-Cheun Jou, VP of Technology, Qualcomm Corp. 周漁君 副總</p>		
12:30~14:00	Luncheon		
14:00~15:40 Parallel Session	Wireless (Room 101A)	Optical (Room 101B)	Multimedia (Room 101C)
	Technical Session 1	Technical Session 1	Panel Discussion 1
	“Wireless System Technologies”	“Optical Fiber Communication and Networks”	“Multimedia Coding on Academic and Industrial Perspective”
	Chair	Chair	Chair
	Wern-Ho Sheen, Professor, NCTU 沈文和 教授	Yinchieh Lai, Professor, NCTU 賴映杰 教授	Jau-Hsiung Huang, Chairman, Cyberlink 黃肇雄 董事長
Speakers	Speakers	Panelists	
<p>A Unified View on the Capacity and Coverage for Wireless Systems with Joint Antenna Diversity and Multiuser Scheduling Li-Chun Wang, Professor, NCTU 王蒞君 教授</p> <p>Location Technologies In Wireless Systems T.C. Chiang, Manager, Lucent Technologies 江同慶 經理</p> <p>Advanced Mobile Devices – Technology and Applications for Life Wen-Yi Kuo, Senior Director Compal Electronics 郭文義 處長</p> <p>Physical-Layer RF Design of Dual-Band 802.11 WLAN Sheng-Fuh Chang, Professor, CCU 張盛富 教授</p>	<p>The Effects of Nonlinear Phase Noise to DPSK Signals Keang-Po Ho, Professor, NTU 何鏡波 教授</p> <p>Performance Monitoring in Optical Networks Lian-Kuan Chen, Professor, CUHK 陳亮光 教授</p> <p>Optical Coarse Packet Switched IP-over-WDM Network (OPSINET): Technologies and Experiments Maria C. Yuang, Professor, NCTU 楊啟瑞 教授</p> <p>The Fairness MAC Protocol for a Slotted Packet-Switched WDM Ring Network Wang-Rong Chang, NCKU 張萬榮 先生</p>	<p>Hsueh Ming Hang, Professor, NCTU 杭學鳴 教授</p> <p>Liang-Gee Chen, Professor, NTU 陳良基 所長</p> <p>Mike H.C. Wang, Manager, CCL - ITRI 王鴻智 經理</p> <p>Tsuhuan Chen, Professor, CMU 陳祖翰 教授</p> <p>C.-C. Jay Kuo, Professor, USC 郭宗杰 教授</p>	
14:00~16:30	Poster Session (Room 101AB Hallway)		
15:40~16:10	Break		

16:10~17:50 Parallel Session	Wireless (Room 101A) Technical Session 2 “MIMO Wireless Communications”	Optical (Room 101B) Technical Session 2 “Optical Devices, Modules and Package”	Multimedia (Room 101C) Technical Session 1 “Industrial Adaptation and Technology Trend on Multimedia Coding”
	Chair	Chair	Chair
	Chong-Yung Chi, Professor, NTHU 祁忠勇 所長	Yan-Kuin Su, Dean, NCKU 蘇炎坤 教務長	Hsueh Ming Hang, Professor, NCTU 杭學鳴 教授
	Speakers	Speakers	Speakers
	Shared Distributed Wireless Antenna Solution Kang Yueh, Manager, Crown Castle 岳鋼 經理 A Flexible Uplink CDMA Space-Time Transceiver with Reduced-Complexity V-BLAST Detection Ta-Sung Lee, Professor, NCTU Chung-Lien Ho, NCTU 李大嵩 教授、何從廉 先生 Structure-Based Water-Filling Algorithm in Multipath MIMO Channels Jiunn-Tsair Chen, Professor, NTHU 陳俊才 教授 On the Downlink Space Time Scheduling of Multi-User MIMO for Wireless Communications Vincent Lau, Professor, HKU	Electromagnetic Shielding of Plastic Packaging in Cost-Effective Optical Transceiver Modules Wood-Hi Cheng, Professor, NSYU 鄭木海 教授 Advanced Design and Fabrication Techniques of Fiber Grating Devices Yinchieh Lai, Professor, NCTU 賴暎杰 教授 Tunable Lasers and Related Devices with Liquid Crystal Enabled Functionalities for DWDM Optical Communication Ci-Ling Pan, Professor, NCTU 潘犀靈 教授 Enabling Optical Technologies for Optical Ethernet San Liang Lee, Professor, NTUST 李三良 教授	The Services and Realization of Multimedia Coding in ChungHwa Telecom San-Wei Sun, Director, Chunghwa Telecom Laboratories 孫三為 博士 The Latest Development on MPEG Video Standards Chun-Jen Tsai, Professor, NCTU 蔡淳仁 教授 System Software Design for Multimedia Networking Jonathan C. L. Liu, Professor University of Florida 劉建良 教授
18:00~20:00	Chairman Reception		

08:00~09:00	Registration		
	Exhibition		
09:00~09:10	Opening Remarks		
09:10~10:40 (Room 101AB)	Plenary Session 3 (Optical)		
	Chair: Jingshown Wu, Vice President of NTU 吳靜雄 副校長 Speakers: Photonics and Telecommunications--A Historical Perspective Chinlon Lin, Director, Center for Advanced Research in Photonics, CUHK 林清隆 教授 Novel Optoelectronic Devices Technologies for a Broadband Photonic Network Yung S. Liu, General Director of OES-ITRI 劉容生 所長 Building Demand for Widespread Broadband Deployment Kevin W. Lu, Chief Scientist, Telcordia Technologies 呂克文 總工程師		
10:40~10:50	Break		
10:50~12:20 (Room 101AB)	Plenary Session 4 (Multimedia)		
	Chair: Jyh-Sheng Ke, President of III 柯志昇 執行長 Speakers: Recent Developments on Embedded Multimedia System Design C.-C. Jay Kuo, Professor, USC 郭宗杰 教授 Lightweight Arithmetic for Mobile Multimedia Devices Tsuhan Chen, Professor, CMU 陳祖翰 教授		
12:30~14:00	Luncheon		
14:00~15:40 Parallel Session	Wireless (Room 101A) Technical Session 3 "Wireless Transmission"	Optical (Room 101B) Panel Discussion 1 "Optoelectronics Communication Technology and Industry Development"	Multimedia (Room 101C) Panel Discussion 2 "Multimedia Deployment on Broadband and Wireless/Mobile Network"
	Chair	Chair	Chair
	Mao-Chao Lin, Professor, NTU 林茂昭教授	Ching-Ting Lee, Dean, NCKU 李清庭 院長	J.C. Dornig, G.D., MTL-III 董建成 所長
	Speakers	Panelists	Panelists
	Principle of Universal Lattice Decoding Wai Ho Mow, Professor, HKUST 繆偉豪 教授 The Design of the Soft Decoder of the Interleaved Convolutional Code Used in IEEE 802.11a Victor W. Cheng, Professor, NCNU Chia-Hui Lin, NCNU 鄭文凱 教授、林家輝 先生 Maximum SNR Array Processing for Space-Time Coded Systems Hsuan-Jung Su, Professor, NTU 蘇炫榮 教授	Yan-Kuin Su, Dean, NCKU 蘇炎坤 教務長 Lung-Sing Liang, General Director Chunghwa Telecom Laboratories 梁隆星 所長 Mao-Lin Yeh, CEO Loop Telecommunication International, Inc 葉茂林 總經理 Kevin W. Lu, Chief Scientist Telcordia Technologies 呂克文 總工程師	Chien-Chin Yen, Chunghwa Telecom 嚴劍琴 處長 Tsai-Jun Pan, Manager, Access 潘才俊 經理 Mike H.C. Wang, Manager, CCL - ITRI 王鴻智 經理 Rachael Chang, Customer Solutions Director, Alcatel Taiwan 張瑞琦 處長
15:40~16:10	Break		
16:10~17:50 Parallel Session	Wireless Panel Discussion 1 "3G Service Development in Taiwan"	Optical Technical Session 3 "Applications of Optoelectronics Technology"	Multimedia Technical Session 2 "Challenge and Reality of Networked Multimedia"
	Chair	Chair	Chair
	Mu-Piao Shih, Chief Engineer Chunghwa Telecom 石木標 總工程師	Lung-Sing Liang, General Director Chunghwa Telecom Laboratories 梁隆星 所長	Zsehong Tsai, Professor, NTU 蔡志宏 教授
	Panelists	Speakers	Speakers
	Hong-Shen Wang, VP, Taiwan Cellular Corp. 王鴻紳 副總經理 Herman Rao, VP, FarEastone Corp. 饒仲華 副總經理 Po-Chuan Tsou, VP, APBW 鄒伯川 副總經理 Robert J.Chen, Consultant, Vibo Telecom Inc. 陳家聲 顧問	Optical Communications in Access Network Ku-Tan Wu, Dean, NUK 吳國棟 教授 A Technology Changing The Component/Module Competitiveness in Fiber Optic Comm. – Micro Optical Electro Mechanical Systems MOEMS or MEMS Schiu Sche, Chairman, NeoStones Micro Fabrication Corp. 石修 總經理 Technical Evolutions of Optical Networks towards New Revenue-Generating Applications Gerard Galbe, General Manager Alcatel Taiwan The Implications of Fiber Optic Transponder Testing Minglai Kao, Manager, Multiplex Inc. 高明來 經理	Internet Multimedia Service in CHT Yen-Sung Lee, VP, Chunghwa Telecom (Hinet) 李炎松 副總經理 The Trend of Digital TV S.Y. Chen, VP, ADB 陳信義 Object-based Shot Segmentation in Compressed Domain L. C. Lin, Professor, FCU 林立謙 教授

March 10 Tainan Special Program
Department of Electrical Engineering, N.C.K.U.
(By invitation only)



09:00~09:10	Registration	
09:10~10:20	Speaker	The Many Facets of Technology Convergence in Telecommunication David Chang, President, Polytechnic U. 張鍾濬 校長
10:20~10:40	Break	
10:40~12:00	Invited Talks	
		Location Based Services and the Future of Wireless Communications T.C. Chiang, Technical Manager, Lucent Technologies 江同慶 博士
		Mobile IP for Data Network Mobility Howard Tsai, Sr. Manager, Cisco 蔡錫勳 資深經理
12:00~13:00	Luncheon	
14:00~15:00	Visit Southern Taiwan Science Park (Tainan)	
15:20~16:20	Visit Chi-Mei Optoelectronics Company	
16:40~17:40	Visit UMC	
18:10~20:00	Dinner (Hosted by National Cheng Kung University)	