



IEEE HK Section
AP/MTT & LEOS



建校 65 周年纪念
1937-2002
65th Anniversary

The Third IEEE Hong Kong AP/MTT/LEOS Postgraduate Conference

September 28, 2002, The Hong Kong Polytechnic University

Advance Program

Registration

12:30-1:00pm Room CD307, The Hong Kong Polytechnic University

Opening Speech

1:00-1:10pm Room CD307

Session A **Antennas and Propagation, and Microwave Theory and Techniques** **Room CD307**

- 1:10-1:30pm Hemisphere Dielectric Resonator Antenna with Annular Patch
H. K. Ng and K. W. Leung
- 1:30-1:50pm Design, Implementation and Characterization of CMOS RF Power Amplifier
Fai-Leung Wong and Kwok-Keung M. Cheng
- 1:50-2:10pm Novel Sub-harmonically Pumped Mixer Incorporating Spiral CMRCs for Low-cost Wireless Communications Subsystems
Tsz Yin Yum, Quan Xue and Chi Hou Chan
- 2:10-2:30pm Annular-slot-Excited Dielectric Resonator Antenna with a Parasitic Slot
K. K. So and K. W. Leung
- 2:30-2:50pm Novel DSP Algorithms for Adaptive Feedforward Power Amplifier Design
Kwok-Po Chan and Kwok-Keung M. Cheng
- 2:50-3:10pm Miniature Circularly Polarized Patch Antenna
K. Y. Hui and K. M. Luk
- 3:10-3:30pm Simple DC Grounded Dual-Band Patch Antenna for Wireless Communications
Y. H. Shum and K. M. Luk
- 3:30-3:50pm A Circularly Polarized Dielectric Resonator Antenna Excited by an Asymmetrical U-slot
Li Bin and K. W. Leung
- 3:50-4:10pm **Tea Break**
- 4:10-4:30pm A Wide Band Antenna with Curved Ground Plane
P. Li and K. M. Luk
- 4:30-4:50pm Resonant Frequency of the Rectangular Dielectric Resonator
H. Y. Lam and K. W. Leung
- 4:50-5:10pm Design of a Dual-Band Indoor Base Station Antenna
W. C. Mok, R. Chair and K. M. Luk
- 5:10-5:30pm An Irregular Shape Slot Patch Antenna
H. W. Lai and K. M. Luk

- 5:30-5:50pm A Wide Bandwidth and Wide Beam Width CDMA+GSM Base Station with Backlobe Reduction
T. P. Wong and K. M. Luk
- 5:50-6:10pm Monopole Antenna Loaded by a Dielectric Hemisphere
K. M. Chow and K. W. Leung
- 6:10-6:30pm A Dual-Polarized Patch Antenna with Directional Coupler for Isolation Enhancement
K. L. Lau and K. M. Luk

**Session B Lasers and Opto-electronics
Room CD309**

- 1:10-1:30pm Polarization Mode Dispersion of an Arrayed Waveguide Grating
P. S. Chan and H. K. Tsang
- 1:30-1:50pm Time-Window Gating with Jitter Reduction using FP Laser Diode
C. W. Chow, C. S. Wong and H. K. Tsang
- 1:50-2:10pm Measurement of Intra-Cavity Loss via Mode Build-up Time
M. Zhang, Y. Zhang, D.N. Wang, W. Jin and M.S. Demokan
- 2:10-2:30pm Efficient Method for Obtaining Parameters of Stable Pulse in Grating Compensated Dispersion-managed Communication Systems
Y. H. C. Kwan, K. Nakkeeran and P. K. A. Wai
- 2:30-2:50pm Generation of Time and Wavelength-Interleaved Pulses from a Dispersion Managed SOA Fiber Ring Laser
K. L. Lee and C. Shu
- 2:50-3:50pm **Laboratory tour**
- 3:50-4:10pm **Tea Break**
- 4:10-4:30pm All-Optical Polarization Controller using Mutual Injection Locking Laser Diode
B. Moses, L. Y. Chan, P. K. A. Wai, W. H. Chung and H. Y. Tam
- 4:30-4:50pm Polarization-Insensitive Widely Tunable Wavelength Converter using a Polarization-Diversified SOA Fiber Ring Laser
K. K. Chow, C. Shu, W. K. Mak and H. K. Tsang
- 4:50-5:10pm Silicon Waveguide Autocorrelator Based on Two-Photon Absorption at 1.5 μ m Wavelength
T. K. Liang and H. K. Tsang
- 5:10-5:30pm Raman Fiber Amplifiers
Kelvin L. F. Lui, P. K. A. Wai and H. Y. Tam

Conference Dinner and Presentation of the Best Student Paper Awards

- 6:30-9:00pm Four Seas Restaurant
14/F, Li Ka Shing Tower, The Hong Kong Polytechnic University