

# Program of PPEMC'05

Pan-Pacific EMC Joint Meeting

Awaji Yumebutai International Conference Center, Hyogo, Japan

May 26-27, 2005

Co-sponsored by EMCJ of IEICE and IEEE EMC-S Japan Chapter

Conference Chair: Prof. Youji Kotsuka, Tokai University

Conference Vice Chair: Prof. Ryuji Koga, Okayama University

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## May 26, 2005 (Thursday)

Opening Ceremony (Y. Kotsuka )

### Session 1

Time: 14:35-15:15

Chair: O. Fujiwara

1. 14:35-14:55

Shielding Material Measurement Device in Microwave Frequencies Utilizing Dual-Focus Flat Cavity

Atsuhiko NISHIKATA, Toshihide TOSAKA, Kazumasa TAIRA, Yukio YAMANAKA

2. 14:55-15:15

The APD Measurement Method for Measuring Weak Noise of a Cell Phone

Keigo HORI, Hiroshi TSUTAGAYA, Satoshi KAZAMA

15:15-15:25 Coffee Break

### Session 2

Time: 15:25-16:25

Chair: S. Watanabe

3. 15:25-15:45

SAR Evaluation of 2-element Array Antennas for Mobile Handsets

Qiang CHEN and Kunio SAWAYA

4. 15:45-16:05

FDTD Analysis of SAR Distribution Using Quasi-Static Approximation

Pornanong PONGPAIBOOL, Kanako WAKE, Soichi WATANABE, Toru UNO

5. 16:05-16:25

A Novel Method of Eliminating Hot Spot Regions in Inductive Thermal Therapy

Hiroki KAYAHARA and Youji KOTSUK

### May 27, 2005 (Friday)

#### Session 3

Time: 09:05-10:25

Chair: A. Nishikata

6. 09:05-09:25

Characteristics of EM Radiation from a PCB at Gigahertz Frequency

Yoshiki KAYANO, Motoshi TANAKA, Hiroshi INOUE

7. 09:25-09:45

Efficient Calculation of Power/Ground Plane Resonance in Multilayer PCBs with EMI Simulator HISES

Takashi MURAO, Yoshitaka TOYOTA, Ryuji KOGA, Zhi Liang WANG, Osami WADA

8. 09:45-10:05

Experimental Study on the Model Differential Transmission Line for High Density HDD Head

Takashi KASUGA, Kojiro TAKEI, Hiroshi INOUE

9. 10:05-10:25

Network Functions for Coupling Analysis of Multi-Conductor Lines in a Printed Circuit Board Backed With a Ground Plane

Yoshio KAMI, Fengchao XIAO

10:25-10:40 Coffee Break

#### Session 4

Time: 10:40-11:40

Chair: Y. Kami

10. 10:40-11:00

Visualizations of Time-varying Poynting Vectors by Using Optical Electromagnetic Field Probes

Eiji SUZUKI, Satoru ARAKAWA, Hiroyasu OTA, Ken Ichi ARAI, Risaburo SATO

11. 11:00-11:20

Bit Error Rate Characteristics of a Radio-controlled Clock Located near a Home Electric

Appliance

Hideo ABE, Kaoru SOMEYA, Yuka KOZUMI, Yoshifumi SHIMOSHIO

12. 11:20-11:40

Performance of 2.4GHz-band Wireless LAN System with IEEE 802.11e Polling Based Channel Access under Man-made Noise Environment

Phuc Khanh KIEU, Shinichi MIYAMOTO

11:40-13:10 Lunch Time

Invited Session 1

Time: 13:15-14:45

Chair: R. Koga

S-1. 13:15-14:00

Crosstalk Reduction Estimation of Non-Parallel Microstrip Lines Using Additional Trace With Metal Filled Via Holes on PCBs

Dong Chul PARK

S-2. 14:00-14:45

Some Research Works on Environmental Electromagnetic & EMC Technology in China

Youngang GAO and Donglin SU

14:45-14:55 Coffee Break

Invited Session 2

Time: 14:55-15:40

Chair: Q. Chen

S-3. 14:55-15:40

Modeling and Simulation for Electromagnetic Radiation and Susceptibility in Complex Electronic Systems

Erping LI

S-4. 15:40-16:25

Latest Researches in Children's Dosimetry for Mobile Phones

Jianqing WANG and Osamu FUJIWARA

16:25-16:35 Coffee Break

Invited Session 3

Time: 16:35-17:20

Chair: H. Yamane

S-5. 16:35-17:20

EMC Modeling of Printed Circuit Boards and Semiconductor Devices

Osami WADA

Closing Ceremony (O. Fujiwara)