Technical Program

6th Kansai Microwave Meeting for Young Engineers

Ryukoku University, Tomoiki-soh, Kyoto

June 29, 2013

Organizer: IEEE Microwave Theory and Techniques Society Kansai Chapter

Sponsor: Ryukoku University

TIME SCHEDULE

9:30-9:40	Information
9:40-10:45	Session MTT13-A
10:45-11:00	Break time
11:00-12:18	Session MTT13-B
12:18-13:45	Lunch time
13:45-14:50	Session MTT13-C
14:50-15:05	Break time
15:05-16:23	Session MTT13-D
16:23-16:40	Break time
16:40-17:58	Session MTT13-E
17:58-18:15	Break time
18:15-20:00	Banquet

Session MTT13-A 9:40-10:45

9:40-9:53

(MTT13-A1) Full-Wave Analysis and Design of Circular Half-Width Microstrip Leaky-Wave Antennas

○Shougo Kawabata, Toshihide Kitazawa

Ritsumeikan University

9:53-10:06

(MTT13-A2) Studies on a Cavity-Backed Slot Antenna Made of a Conductive Textile Bent along a Spherical Surface

○Masashi Komeya, Hitoshi Shimasaki

Kyoto Institute of Technology

10:06-10:19

(MTT13-A3) Fabrication and Experiment of a Helical Antenna Operating in 920 MHz Band

○Naoya Tsutsui, Hitoshi Shimasaki, Yuichi Kado

Kyoto Institute of Technology

10:19-10:32

(MTT13-A4) Development of a Highly-Efficient Receiving Element for RFID

○Zhou Yan, Naoki Shinohara

Kyoto University

10:32-10:45

(MTT13-A5) Joint Estimation of Position and Gain for RFID-Tag Assisted Surgery Support System

○Katsushi Matsuda, Takeshi Higashino, Minoru Okada

Nara Institute of Science and Technology

Break time 10:45-11:00

Session MTT13-B 11:00-12:18

11:00-11:13

(MTT13-B1) Electrically Isolated System for Measuring Signals in MHz-Band Human-Area Network

○Masaki Ishida, Tomonori Nakamura, Mami Nozawa, Taku Kobase, Hitoshi Shimasaki,

Yuichi Kado

Kyoto Institute of Technology

11:13-11:26

(MTT13-B2) Green and Secure Office Space Using Near Field Coupling Communication System

○Naoto Watanabe, Tomoaki Yanagawa, Kohei Nagata, Mami Nozawa, Tomonori Nakamura, Yuichi Kado
Kyoto Institute of Technology

11:26-11:39

(MTT13-B3) A Study of the Model of Meteor Burst Communication Channel with Exponential Decay

○Yuya Kaneko (1), Masashi Nagasawa (2)
(1) Nara Institute of Science and Technology
(2) Numazu College of Technology

11:39-11:52

(MTT13-B4) Study on a Direction Detection Technology in a Microwave Power Transmitting System for a Mars Observation Airplane

○Masashi Iwashimizu, Akihito Nagahama, Tomohiko Mitani, Naoki Shinohara, Koichi Yonemoto
Kyoto University

11:52-12:05

(MTT13-B5) Study on High Unloaded Q Spiral Resonators for Wireless Power Transmission

○Satoshi Nojiri, Toshio Ishizaki
Ryukoku University

12:05-12:18

(MTT13-B6) Dynamic Impedance Matching for Mobile Wireless Power Transmission

○Keisuke Mikami, Toshio Ishizaki
Ryukoku University

Lunch time 12:18-13:45

Session MTT13-C 13:45-14:50

13:45-13:58

(MTT13-C1) Improvement of the GPS Positioning with a New Multipath Mitigation Technique

○Masaaki Endo, Takeshi Nagano, Nobuo Shibata, Masato Kawai, Shinji Ogawa, Takuo Kashiwa
Furuno Electric Co., Ltd.

13:58-14:11

(MTT13-C2) LTCC-Based Multilayer CRLH TLs for Super Compact Design of Distributed Constant Circuits

○Risa Matsubara, Yasushi Horii

Kansai University

14:11-14:24

(MTT13-C3) A Study on Vehicle Speed Detection System using Leaky Coaxial Cable Antenna

○Hiroki Maruyama, Takeshi Higashino, Minoru Okada

Nara Institute of Science and Technology

14:24-14:37

(MTT13-C4) Distributed Wireless Communication System: A New Architecture for Future Public Wireless Access

○Md.Salik Parwez, Takeshi Higashino, Minoru Okada

Nara Institute of Science and Technology

14:37-14:50

(MTT13-C5) Study on a Transmission Antenna of a Demonstration Experiment Satellite for Solar Power Station

○Junki Yoshino, Naoki Shinohara

Kyoto University

Break time 14:50-15:05

Session MTT13-D 15:05-16:23

15:05-15:18

(MTT13-D1) A 2.1GHz-Band 20W GaN Power Amplifier with Class-F Circuit Considering Parasitic Elements

○Keigo Nakatani, Toshio Ishizaki

Ryukoku University

15:18-15:31

(MTT13-D2) Study on Quadruple-Mode Cavity-Type Filter for Base Station

○Dai Futagami, Toshio Ishizaki

Ryukoku University

15:31-15:44

(MTT13-D3) Super Miniaturized LTCC Filter using Novel Composite Resonators

○Ryo Miyamoto, Toshio Ishizaki

Ryukoku University

15:44-15:57

(MTT13-D4) Study on Design, Fabrication and Adjustment Method of a 4-Pole Cavity-Type Comb-Line Filter

○Masaki Yoneda, Toshio Ishizaki

Ryukoku University

15:57-16:10

(MTT13-D5) A Super-Selective Band Elimination Filter Composed of Symmetrically Allocated Foster/Non-Foster Resonators

○Shogo Takagi, Takuya Kaneko, Yasushi Horii

Kansai University

16:10-16:23

(MTT13-D6) Determination of Complex Permittivity of Materials with High or Low Losses in Rectangular Waveguide Using Hybrid Numerical Method

○Kotaro Momoeda, Toshihide Kitazawa

Ritsumeikan University

Break time 16:23-16:40

SessionMTT13-E 16:40-17:58

16:40-16:53

(MTT13-E1) Design of a Broadband Electromagnetic Wave Irradiation Applicator for Lignin-derived Functional Polymer

○Ryo Nakajima, Tomohiko Mitani, Naoki Shinohara

Kyoto University

16:53-17:06

(MTT13-E2) Microwave-Heating for Liver Cancer Thermotherapy with Multi Layer Tapered Coaxial Line Applicator

○Kentaro Fujiwara, Toshihide Kitazawa

Ritsumeikan University

17:06-17:19

(MTT13-E3) Study on Nonlinear Device Model of GaN HEMT for Design of High-Efficiency Power Amplifiers

○Shuhei Yoshikawa, Toshio Ishizaki

Ryukoku University

17:19-17:32

(MTT13-E4) Influence of Harmonic Distortion of Driving Signal on Chirp Parameter Measurement of Mach-Zehnder Modulator - Experimental Verification -

○Takahiro Hayashi(1), Hiroyuki Toda(1), Tetsuya Kawanishi(2)

(1) Doshisha University

(2)National Institute of Information and Communications Technology

17:32-17:45

(MTT13-E5) Electro-Optic SSB Modulator Integrated with Coplanar Waveguide Type Branch-Line Coupler

○Katuyuki Yamamoto, Kazuyo Kawamura, Tadashi Kawai, Akira Enohara, Tetsuya Kawanishi

University of Hyogo

17:45-17:58

(MTT13-E6) STBC in Dual-Polarized MIMO-OFDM Systems

○Wan Geng, Takeshi Higashino, Minoru Okada

Nara Institute of Science and Technology

Break time 17:58-18:15

Banquet 18:15-20:00