OH·2010

Tokyo Institute of Technology
Mobile Communication Research Group
Open House 2010

Apr. 15, 2010 (Thu)
@ W-9 Bldg., Ookayama Campus, Tokyo Institute of Technology
(Registration: 11:00 - 12:40 / second floor of W-9 Bldg.)

1. Open House

● **11:00 - 12:40** Pre-Exhibition @ Collaboration Room
● **12:40 - 13:30** Exhibits of MCRG Labs / Introduction of lab. by head professors @ Digital Hall
- ■ **12:40 - 12:45** Introduction about Open House 2010
- ■ **12:45 - 12:53** **Takada Laboratory (Propagation)**
  "Channel Characterization and Modeling
  for Wireless Communication Systems and Fundamentals of Cognitive Radio"
- ■ **12:53 - 13:01** **Araki-Sakaguchi Laboratory (System)**
  "Compact High Efficiency MIMO Transceiver & Distributed MIMO Network"
- ■ **13:01 - 13:09** **Suzuki-Fukawa Laboratory (Signal Processing)**
  "Optimal Signal Processing to realize MIMO-OFDM Radio Communication"
  -Applications to Cellular, Radio LAN and Millimeter-wave Systems -
- ■ **13:09 - 13:17** **Ando-Hirokawa Laboratory (Antenna)**
  "High Gain and HIgh Efficiency Double-Layer Slotted Waveguide Array
  in 38GHz and 60GHz Band Fabricated by Diffusion Bonding of Laminated Thin Plates"
- ■ **13:17 - 13:25** **Matsuzawa-Okada Laboratory (LSI design)**
  "Millimeter-Wave CMOS Integrated Circuits"
● **13:30 - 15:50** Exhibition @ Collaboration Room

2. Invited Talk

● **Theme** ## Sustainability in Wireless Communication
- Towards the Future of the Innovating Wireless -

● **16:00 - 18:45** Invited Talk (Chair: Prof. Takada) @ Digital Hall
- ■ **16:00 - 16:35** "Adaptive Signal Processing for Signal Detection in Mobile Communication Systems"
  : **Prof. Suzuki Hiroshi (Tokyo Tech)**
- ■ **16:35 - 17:10** "Development and Standardization of LTE and LTE-Advanced"
  : **Dr. Abeta Sadayuki (NTT docomo)**
- ■ **17:20 - 17:55** "Ubiquitous Power Source -Sustainability
  in Wireless Communication via Fusion of Information and Energy"
  : **Prof. Shinohara Naoki (Kyoto Univ.)**
- ■ **17:55 - 18:30** "On Japanese-style smart grids" : **Assoc. Prof. Kataoka Yoshihiko (Tokyo Tech / TEPCO)**
- ■ **18:30 - 18:45** "Discussion"

Banquet ● 19:00- 20:30 @ Cafeteria #1 ,2F

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Mobile Communication Research Group**
Takada Lab, Suzuki-Fukawa Lab, Araki-Sakaguchi Lab,
Ando-Hirokawa Lab, Matsuzawa-Okada Lab