



Hiroshima University

Research Institute for Nanodevice and Bio Systems

IWNT2017: International Workshop on Nanodevice Technologies 2017

March 2, 2017

Hiroshima University Satake Memorial Hall (Higashi-Hiroshima Campus)

- 9:00 Registration
- 10:30 Opening Koichi Kato, Dean, Hiroshima University, Japan
- 10:40-11:00 Takamaro Kikkawa, RNBS, Hiroshima University, Japan
Introduction to Nanodevice Technology Workshop
- 11:00-11:30 Jason Woo, University of California, Los Angeles, USA
FinFET Analog Performance Optimization by Graded Channel Concept
- 11:30-12:00 Shigeyasu Uno, Ritsumeikan University, Japan
Computer Simulation of Electrochemical Impedance Spectroscopy for Monitoring Living Cells on Microscale Electrodes
- 12:00-12:30 Kenneth O, University of Texas, Dallas, USA
Demonstration of Breath Analyses Using CMOS Integrated Circuits for Rotational Spectroscopy
- 12:30-13:30 Lunch
- 13:30-14:30 Poster Session
- 14:30-15:00 Ladislau Matekovits, Polytechnic University of Torino, Italy
Comparison between Radiation Characteristics of Different Conformal, Printed Implanted Antennas with Bio-metallic Bone as Ground Plane
- 15:00-15:30 Koji Mitsubayashi, Tokyo Medical and Dental University, Japan
Cavitas Sensors and Sniff-imaging System for Daily Medicine
- 15:30-16:00 Atif Shahzad, National University of Ireland, Galway, Ireland
Microwave Imaging for Early Stage Breast Cancer Detection
- 16:00-16:15 Coffee Break
- 16:15-16:45 Alvin Loke, Qualcomm, California, USA
Migrating Analog/Mixed-Signal Designs to FinFET
- 16:45-17:15 Shin-ichi Takagi, University of Tokyo, Japan
Ultra-low Power MOSFETs and Tunneling FETs using III-V and Ge
- 17:15-17:30 Shin Yokoyama, RNBS, Hiroshima University, Japan
- 18:00-20:00 Social Meeting (Charge)

* Presentation will be in English.

Organized by

Research Institute for Nanodevice and Bio Systems, Hiroshima University

In cooperation with

Nanotechnology Platform Japan, the Ministry of Education, Culture, Sports, Science and Technology (MEXT)/
Research Center for Biomedical Engineering

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Pre-Registration (Free Charge!)

<http://www.RNBS.hiroshima-u.ac.jp/>



[Contact]

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