

# RIEC Russia-Japan Joint International Microwave Workshop 2017

**Date: October 18 (WED) – 20 (FRI), 2017**

**Place: Laboratory for Nanoelectronics and Spintronics 4<sup>th</sup> Floor  
Conference Room, RIEC, Tohoku University (Katahira Campus)**

**Registration Fee: Free of charge**

**Sponsorship:**

**Research Institute of Electrical Communication (RIEC), Tohoku University**

**Technical Sponsorship:**

**Technical Committee on Microwaves, Electronics Society, Institute of Electronics,  
Information, and Communication Engineers (IEICE)**

**Institute of Electrical and Electronics Engineers (IEEE) Microwave Theory and  
Techniques Society (MTT-S) Japan Chapter**

## - Time Table -

**Oct 18 (WED) Bus Tour of Tsunami Disaster Inspection**

**9:00 Departure from RIEC**

**- Inspection of ICT infrastructure damage by Tsunami - (incl. Boat tour + lunch\* at  
Matsushima and dinner\* at Natori)**

**20:15 Arrival at Sendai Station**

**Oct 19 (THU)**

**9:30-10:45 Lab. Tour (Advanced wireless technology Lab.+ Archive room, RIEC)**

**10:45-11:00 Break**

**11:00-12:40 Session 1 (Opening & Antennas)**

**11:00-11:10 Opening**

**11:10-11:40 Dr. Hiroyasu Sato, Tohoku Univ., "Design of Capsule Antenna For  
Ingestible Endoscope"**

**11:40-12:10 Prof. Andrei Grigorev, St. Petersburg Electrotechnical University (LETI),  
"Electrically Tunable Antenna for Mobile Handsets"**

**12:10-12:40 Dr. Satoshi Yoshida, Kagoshima Univ., "60-GHz-Band Vertical  
Interconnection Structure with Excavated Structure for 5G Application"**

**12:40-13:50 Lunch\***

13:50-15:20 Session 2 (Active Devices and Integrated Circuits)

13:50-14:20 Prof. Taiichi Otsuji, Tohoku Univ., "Terahertz light emission and lasing in graphene transistors under current-injection pumping"

14:20-14:50 Prof. Ishizaki, Ryukokui Univ. , "TBD"

14:50-15:20 Prof. Noriharu Suematsu, Tohoku Univ., "Direct Digital RF technologies"

15:20-15:40 Break

15:40-17:10 Session 3 (Integrated Circuits)

15:40-16:10 Prof. Minoru Fujishima, Hiroshima Univ., "CMOS terahertz transceiver to open up an emerging communication region"

16:10-16:40 Prof. Leonid Babak, Tomsk State University of Control Systems and Radioelectronics, "MMIC Design Based on New Approaches and Schematic/Layout Synthesis Software"

16:40-17:10 Prof. Shigeo Kawasaki, JAXA ISAS, "The C-Band Hybrid Semiconductor Integrated Circuit Energy Harvester"

17:30-19:30 Welcome Reception\*\* (Restaurant "Hagi" )

Oct. 20(FRI)

9:00-10:30 Session 4 (Oscillators)

9:00-9:30 Dr. Mizuki Motoyoshi, Tohoku Univ., "Ultra Low Power Oscillator for Millimeter-wave IoT"

9:30-10:00 Prof. Andrei Nikitin, LETI, "Tunable Low-phase-noise Microwave Photonics Oscillators: Theory, Designs, Performance Characteristics"

10:00-10:30 Prof. Nobuyuki Itoh, Okayama Prefectural Univ., "Study of Striped Inductor for High-Frequency Voltage-Controlled Oscillators"

10:30-10:50 Break

10:50-12:20 Session 5 (Passive & Control Circuits)

10:50-11:20 Prof. Atsushi Sanada, Osaka Univ., "TBD"

11:20-11:50 Prof. Dmitry Kholodnyak, LETI, "Electrically Tunable Microwave Bandpass Filters on Lumped Elements"

11:50-12:20 Prof. Toshio Ishizaki, Ryukoku Univ., "TBD"

12:20-12:30 Closing

12:30-13:30 Lunch\*

\* Individual payment \*\* Party fee: JPY 3,500