

ImPACT International Symposium on InSECT 2016
Ultrahigh-speed and multiplexed sensing system using
Incredibly Smart, Efficient and Compact devices by insect Technology (InSECT)
April 26-27, 2016, Nagoya, Japan
Noyori Conference Hall, Nagoya University

The Symposium has been planned by the ImPACT Miyata Program (launched in 2014 funded by the Council for Science, Technology and Innovation headed by the Prime Minister of Japan) on the “Ultra high-speed multiplexed sensing system beyond evolution for the detection of extremely small amounts of substances”. Approximately fifteen prominent international experts will be invited. The wide ranging themes which we seek to address include: solid nanopore, three-dimensional nanowire, microfluidic technique, field effect transistor, molecular recognition technique, electronic noses, and pattern recognition for multiplexed sensing system of bacteria, viruses, hazardous molecules (low-molecular weight compounds), and PM2.5.

We will also discuss on the international standardization of this research field.

[Program]

[Day1] Tuesday, April 26, 2016

- 9:00- Reception Desk Opens**
- 10:00-10:10 Opening Remarks**
Seiichi Matsuo, President of Nagoya University
- 10:10-10:25 Program Overview**
Special: Reiko Miyata, JST & Nagoya University, Japan
- 10:25-11:45 Track1-1: Bacteria & Virus Chair: Masateru Taniguchi**
Plenary: Marija Drndic, University of Pennsylvania, USA
Plenary: Tomoji Kawai, Osaka University, NEDO, Japan
- 11:45-12:55 Lunch**
- 12:55-14:40 Track1-2: Bacteria & Virus Chair: Tomoji Kawai**
Invited: Hua Wang, Georgia Institute of Technology, USA
Invited: Jiro Yasuda, University of Nagasaki, Japan
Oral: Yukichi Horiguchi, Tokyo Medical and Dental University, Japan
Oral: Takao Yasui, Nagoya University, Japan
Oral: Naofumi Nakamura, Toshiba, Japan
- 14:40-14:55 Break (15)**
- 14:55-16:45 Track2-1: Hazardous Molecules Chair: Hiroaki Oka**
Plenary: Krishna Persaud, University of Manchesster, UK
Plenary: Kiyoshi Toko, Kyushu University, Japan
Invited: Hossam Haick, Israel Institute of Technology, Israel
- 16:45-17:00 Break**
- 17:00-18:15 Track2-2: Hazardous Molecules Chair: Kiyoshi Toko**
Invited: Takamichi Nakamoto, Tokyo Institute of Technology, Japan
Oral: Mina Okochi, Tokyo Institute of Technology, Japan
Oral: Takashi Washio, Osaka University, Japan
Oral: Akio Oki, Panasonic, Japan
- 18:15-20:00 Networking Reception Meeting Room F1, Noyori Conference Hall**

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[Day2] Wednesday, April 27, 2016

- 9:00-10:20** **Track3-1: PM2.5** **Chair: Noritada Kaji**
Plenary: Charles S. Henry, Colorado State University, USA
Plenary: Yoshinobu Baba, Nagoya University, Japan
- 10:20-10:35** **Break**
- 10:35-11:45** **Track3-2: PM2.5** **Chair: Yoshinobu Baba**
Invited: Kazuichi Hayakawa, Kanazawa University, Japan
Invited: Yutaka Matsumi, Nagoya University, Japan
Oral: Kaita Imai, Toshiba, Japan
- 11:45-12:45** **Lunch**
- 12:45-13:45** **Poster Session**
- 13:45-14:55** **Track4: International Standardization** **Chair: Hiroki Nakae**
Plenary: Shingo Ichimura, Nagoya University, Japan
Invited: Hiroki Nakae, JMAC, Japan
- 14:55-15:10** **Break**
- 15:10-15:40** **Keynote Speech**
Invited: Abraham P. Lee, University of California at Irvine, USA
- 15:40-16:40** **Panel Discussions**
- 16:40-16:50** **Closing Remarks**
Council for Science, Technology and Innovation, Cabinet Office, Japan



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