



# JSPS Core-to Core Sanken Program Purdue University and Osaka University

**Thursday, June 22, 2017**

**10:00 – 3:00 PM**

**Birck Nanotechnology Center, Room 1001**

## Seminar for Sensing Technology by Nano Materials

10:00-10:10 AM	<b>"Welcome"</b> David Janes, Professor Purdue Univ. and Kazuhiko Matsumoto, Osaka Univ.
10:10-10:50 AM	<b>"Nanomagnet Networks as Building Blocks for Ising Computing"</b> by: Zhihong Chen, Purdue Univ.
	<b>"Quantum Device and Spin Control"</b> by: Akira Oiwa, Osaka Univ.
10:50-11:30 AM	<b>"VO<sub>2</sub> Oxide Material and Device"</b> by: Hidekazu Tanaka, Osaka Univ.
	<b>"2D Materials for Electronics and Optoelectronics"</b> by: Joerg Appenzeller, Purdue Univ.
11:30-12:30 PM	Lunch and networking
12:30-1:50 PM	<b>"Pathogen Detection using Graphene with Microreactor"</b> by: Takao Ono, Osaka Univ.
	<b>"Graphene-wrapped Microparticles for Viral Detection"</b> by: Lia Stanciu, Purdue Univ.
	<b>"Microfluidic and Paperfluidic Nucleic Acid-based Biosensors"</b> By: Jacqueline Linnes, Purdue Univ.
	<b>"Virus Detection by Graphene FET"</b> by: Kazuhiko Matsumoto, Osaka Univ.
1:50-2:20 PM	Networking break
2:20-3:05 PM	<b>"Implantable Senors and Actuators for Neurological Applications"</b> by: Hyowon (Hugh) Lee, Purdue Univ.
	<b>"Brain Wave Measurement System"</b> by: Takafumi Uemura, Osaka Univ.
3:00-3:05 PM	Concluding remarks David Janes, Purdue Univ.

# Birck Nanotechnology Center

The Institute of Scientific and Industrial Research at Osaka University,  
Osaka, Japan



**Kazuhiko Matsumoto**  
Professor



**Hidekazu Tanaka**  
Professor



**Akira Oiwa**  
Professor



**Takafumi Uemura**  
Specially-appointed  
Associate Professor



**Ono Takao**  
Professor

## Purdue University

Electrical and Computer Engineering, Biomedical Engineering, and Materials Engineering



**David Janes**  
Professor



**Zhihong Chen**  
Professor



**Joerg Appenzeller**  
Professor



**Lia Stanciu**  
Professor



**Jacqueline Linnes**  
Assistant Professor



**Hyowon (Hugh) Lee**  
Assistant Professor