

France - Japan Joint Workshop on Molecular Technology for Advanced Sensors



10:00 - 17:35, June 4th, 2018

Auditorium, WPI-MANA build., NIMS, Tsukuba



Registration

9:45 -

Opening

10:00 -10:10 *Welcome addresses*

Takayoshi Sasaki, NIMS fellow, Director, MANA, NIMS

Group Photo

Chair: Yutaka Wakayama

Ion Sensors 1

10:20-10:30 *“Introduction of ANR-JST joint project for ion-sensor”*

Anne Charrier, Researcher, Aix-Marseille University, CINA M/CNRS

10:30-11:00 *“When bonding makes you stronger: Supported lipid monolayer with unprecedented mechanical and dielectric properties: Application to ISFET sensors”*

Anne Charrier, Researcher, Aix-Marseille University, CINA M/CNRS

11:00-11:30 *“Chromophore design for anion and cation sensing”*

Jonathan Hill, MANA scientist, MANA, NIMS

11:30-12:00 *“Access to calixarenes for ions sensing and surface modification”*

Jean-Manuel Raimundo, Professor, Aix-Marseille University, CINA M/CNRS

Lunch: 12:00- 13:00

Chair: Jean-Manuel Raimundo

Ion sensors 2

13: 00-13:20 *“Water-gated organic field effect transistor-based ion sensor”*

Tin Phan Nguy, Ph.D student, MANA, NIMS

13: 20-13:40 *“Innovative organic semi-conductor/dielectric interface based on P3HT and lipid monolayer for FET sensor applications.”*

Volkan Klinc, Ph.D.student, Aix-Marseille University

Gas Sensors

13: 40-14:10 *“Nanomechanical Sensors towards Artificial Olfaction”*

Genki Yoshikawa, Group leader, MANA, NIMS

14:10-14:40 *“Carbon nanotube based chemical sensor for prompt detection of toxic gases”*

Shinsuke Ishihara, MANA scientist, MANA, NIMS

Coffee Break 14:40-15:00

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Moisture Sensors

15:00-15:30 *“Moisture Sensor; detection and size distinction of small aqua”*
Jin Kawakita, Group leader, MANA, NIMS

Optical Sensors 1

15:30-16:00 *“Spectroscopic/Nonspectroscopic Optical Sensors for Molecule Detections”*
Tadaaki Nagao, MANA PI, MANA, NIMS

16:00-16:20 *“Plasmonic antennas for trace molecular sensing”*
Duy Thang Dao, JSPS fellow, MANA, NIMS

Coffee Break 16:20-16:40

Chair: Matthieu Petit

Optical Sensors 2

16:40-17:10 *“An ultraviolet light sensor based on diarylethene-channel field-effect transistors”*
Ryoma Hayakawa, MANA scientist, MANA, NIMS

17:10-17:30 *“2D Materials and Heterostructures based Optoelectronic Sensor”*
Bablu Mukherjee, JSPS fellow, MANA, NIMS

Closing

17:30-17:35 Closing remarks
Yutaka Wakayama, Group leader, MANA, NIMS

Get Together (Workshop Banquet, Closed)

18:00-20:00