

# The Fifth RIKEN-NCTU Symposium on Physical and Chemical Science

Lecture Room 353, Science Building III, NCTU

交通大學基礎科學教學研究大樓 353 室

15 – 16 December 2017

## 15 December (Friday)

08:40 – 09:00	Registration	
09:00 – 09:10	Opening Dean Yung-Fu Chen	
	Chair: Dr. Yuan-Pern Lee	
09:10 – 09:50	Dr. Takuzo Aida (RIKEN & The University of Tokyo)	Stimuli-Responsive Smart Soft Materials Fabricated under Nonequilibrated Conditions
09:50 – 10:30	Dr. Kazuo Takimiya (RIKEN)	Thiophene-Fused Naphthalene Diimides: New Building Blocks for Electron Deficient $\pi$ -Functional Materials
10:30 – 10:50	Coffee break	
10:50 – 11:30	Dr. Yen-Ju Cheng (NCTU)	Design and Synthesis of Organic and Polymeric Conjugated Materials for Organic Photovoltaics and Transistors
11:30 – 12:10	Dr. Keisuke Tajima (RIKEN)	Role of Surfaces on Crystallization of Organic Semiconductors in Thin Films
12:10 – 13:30	Lunch	
13:30 – 14:10	Dr. Bor-Ran Li (NCTU)	Rapid Pathogens Detection via Integrated Nano-Techniques
14:10 – 14:50	Dr. Jun Akimoto (RIKEN)	Development of a Cancer Treatment System Utilizing Structure Change of Thermoresponsive Polymeric Micelles
14:50 – 15:30	Dr. Tung-Kung Wu (NCTU)	Ruthenium-Based Biomimetic H-Clusters for Efficient Photocatalytic Hydrogen Generation from Formic Acid Dehydrogenation
15:30 – 15:50	Coffee break	
15:50 – 16:30	Dr. Yong-Jin Pu (RIKEN)	Non-Polycyclic $\pi$ -Conjugated Molecules Showing Singlet Exciton Fission Character for Organic Photovoltaics
16:30 – 17:10	Dr. Eric W.-G. Diau (NCTU)	Inverted Planar Heterojunction Perovskite Solar Cells
17:10 – 17:50	Ph.D. Student Chun-Fu Chang (RIKEN & The University of Tokyo)	Ultra-Broadband Femtosecond Time-Resolved Absorption Spectroscopy of $\text{CH}_3\text{NH}_3\text{PbI}_3$ Perovskite Thin Films from Visible to Near-Infrared Region
18:30 – 20:30	Banquet	

\* The Speaker will serve the chair of the next speaker.

## 16 December (Saturday)

09:00 – 09:40	Dr. Naoki Ogawa (RIKEN)	Directional Photocontrol of Electron/Spin
09:40 – 10:20	Postdoctoral Fellow Sheng-Shiuan Yeh (NCTU)	Probing Nanocrystalline Grain Dynamics in Nanodevices
10:20 – 10:40	Coffee break	
10:40 – 11:20	Dr. Fumito Araoka (RIKEN)	Supramolecular Liquid Crystals for Paintable Ferroelectrics
11:20 – 12:00	Dr. Yu-Miin Sheu (NCTU)	Photocreating Supercooled Spiral-Spin States in a Multiferroic Manganite
12:00 – 12:40	Dr. Yu-Chieh Lin (RIKEN)	Optical Parametric Amplification of Ultrabroadband Infrared Pulses in BBO Crystals Pumped by Red Femtosecond Pulses
12:40 – 14:00	Lunch	
14:00 – 20:00	Lab Tour & Dinner	

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