### 2017 TIMS-CENIDE-NTHU Joint Symposium on Nanoscience and Nanotechnology (Workshops of CiRfSE and Pre-Strategic Initiatives)

March 10th, 2017 (Friday) (Conference Room B0110)

Registration 9:00~9:30

2017 TIMS-CENIDE Joint Symposium on Nanoscience and Nanotechnology		
Opening Session		
9:30~9:35	Tatsuya Nabeshima (TIMS, CiRfSE, University of Tsukuba)	
	Opening Remarks	
9:35~9:55	Tobias Teckentrup (CENIDE, University of Duisburg-Essen)	
	Nano Research at the University of Duisburg-Essen: An Overview	
Scientific Session		
	Chairman: Jun-ichi Fujita (TIMS)	
9:55~10:35	Hermann Nienhaus (CENIDE, University of Duisburg-Essen)	
IL-1	Non-Adiabatic Effects in Gas-Surface Interactions	
10:35~10:55	Junji Nakamura (TIMS, CiRfSE, University of Tsukuba)	
IL-2	Active Sites of Nitrogen-Doped Carbon Materials for Oxygen Reduction	
	Reaction	
10:55~11:05	Coffee Break (Conference Room B0112)	
	Chairman: Junji Nakamura (TIMS, CiRfSE)	
11:05~11:25	Masashi Kijima (TIMS, University of Tsukuba)	
IL-3	Modifications of Carbazole-Based Conjugated Polymers for Each Application	
11:25~11:45	Masaki Yamamura (TIMS, University of Tsukuba)	
IL-4	Supramolecule and Photophysical Properties of Curved Molecules Containing	
	Phosphorus Atoms	
11:45~12:05	Akira Sekiguchi (TIMS, University of Tsukuba)	
IL-5	Silyl Radicals and Polysilynes: Application to the Energy Storage System	

	Chairman: Tatsuo Arai (TIMS)
13:30~13:50	Nicolas Woehrl (CENIDE, University of Duisburg-Essen)
IL-6	Low-Dimensional Carbon Nanomaterials by Plasma Assisted Chemical Vapor
	Deposition: From Bulk to 0D and Back
13:50~14:10	Yoshikazu Ito (University of Tsukuba)
IL-7	3D Graphene Provide New Ways for Creating Graphene Applications
	Chairman: Takaki Kanbara (TIMS, CiRfSE)
14:10~14:30	Ina Haxhiaj (CENIDE, University of Duisburg-Essen)
IL-8	Process-Stable and Highly Pure Active Nanomaterials for Energy Research
	Produced by Continuous Laser Technique
14:30~14:50	Yoshinobu Nishimura (TIMS, University of Tsukuba)
IL-9	Hydrogen-Bonding Interaction of Emissive Aromatic-Urea Compounds
14:50~15:10	Klaus Friedel Ortega (CENIDE, University of Duisburg-Essen)
IL-10	Top-Down Synthesis of Oxide Supported Metal Catalysts: New Materials and
	Insights from Co-Precipitated Precursor Decomposition

# Workshop of Pre-Strategic Initiatives: Ensemble of Light with Matter and Life for Discovery and Insights of Novel Phenomena

Chairman: Tatsuya Nabeshima (TIMS, CiRfSE)

15:25~15:45 **Yohei Yamamoto** (TIMS, CiRfSE, University of Tsukuba)

IL-11 Optical and Laser Microcavities by Self-Assembly of Conjugated Molecules and Polymers

15:45~16:05 **Hideaki Kano** (TIMS, CiRfSE, University of Tsukuba) **IL-12** Label-Free, Multi-Color Imaging of Live Cells and Tissues Using a White-Light Laser Source

Chairman: **Yohei Yamamoto** (TIMS, CiRfSE)

16:05∼16:45 **Hidefumi Hiura** (*IoT Device Research Laboratories, NEC Corporation*) **IL-13** Chemistry of Vibrational Ultrastrong Coupling: Towards Realizing a Universal Catalyst

16:45~17:25 **Tadaaki Nagao** (MANA, NIMS) **IL-14** Applications of Oxides and Nitrides Nanostructures for Photothermal/Photoelectric Energy Conversion

Chairman: Yasuhiro Hatsugai (TIMS, University of Tsukuba)

17:25~17:55 **Ta-Jen Yen** (National Tsing Hua University)

IL-15 A Three-Dimensional Negative Index Medium and a Miniature Surface Plasmon Polariton Amplitude Modulator

18:30∼ Dinner

#### March 11th, 2017 (Saturday) (Conference Room B0110)

Chairman: Eiji Nishibori (TIMS, CiRfSE)

9:30~9:50 **Takeaki Sakurai** (TIMS, University of Tsukuba)

**IL-16** Progress of Defect Study in Cu(In,Ga)Se<sub>2</sub> Based Solar Cells

9:50~10:10 **Yasuhiro Hatsugai** (TIMS, University of Tsukuba)

**IL-17** From Graphene to Topological Materials

10:10~10:30 Hidetaka Kasai (TIMS, CiRfSE, University of Tsukuba)

**IL-18** Advanced Charge Density Studies of TiS<sub>2</sub> and LaB<sub>6</sub> Using High-Resolution

X -Ray Diffraction Data

10:30~10:45 Coffee Break (Conference Room B0112)

## Workshop of CiRfSE, Research Core for Developing Energy and Environment-friendly Materials

Chairman: Yutaka Moritomo (TIMS, CiRfSE)

10:45~11:25 **Dam Hieu Chi** (School of Knowledge Science, JAIST)

IL-19 Knowledge Discovery from Materials Science Data

11:25~12:05 **Hiroshi Kondoh** (Department of Chemistry, Keio University)

IL-20 Operando Observations of Catalytic Reactions on Platinum Group Metal

Surfaces under Near Ambient Pressure XPS

12:05~12:10 *Closing Remarks* 

Kazuyuki Kanaya (CiRfSE, University of Tsukuba)