

**2017 TIMS-CENIDE-NTHU Joint Symposium on Nanoscience and Nanotechnology  
(Workshops of CiRfSE and Prestrategic Initiative)**

Date: Friday, March 10, 2017 9:30~17:55

Saturday, March 11, 2017 9:30~12:10

Venue : Room 0110, Laboratory of Advanced Research B ,University of Tsukuba

Dinner : March 10, 2017 18 : 30~20 : 30 University Hall Restaurant “Tsukuba Demi”

◇Number of Participants	:	72
Invited Speakers		10
Academics (University of Tsukuba)		33
Students		29

◇Dinner		
Attendance at Dinner		27

**Program**

**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

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

12:05~13:30 Lunch

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

### 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)

			
<b>Tatsuya Nabeshima</b>	<b>Tobias Teckentrup</b>	<b>Hermann Nienhaus</b>	<b>Junji Nakamura</b>
			
<b>Masashi Kijima</b>	<b>Masaki Yamamura</b>	<b>Akira Sekiguchi</b>	<b>Nicolas Woehrl</b>
			
<b>Yoshikazu Ito</b>	<b>Ina Haxhiaj</b>	<b>Yoshinobu Nishimura</b>	<b>Klaus Friedel Ortega</b>

			
<b>Yohei Yamamoto</b>	<b>Hideaki Kano</b>	<b>Hidefumi Hiura</b>	<b>Tadaaki Nagao</b>
			
<b>Ta-Jen Yen</b>	<b>Takeaki Sakurai</b>	<b>Yasuhiro Hatsugai</b>	<b>Hidetaka Kasai</b>
			
<b>Dam Hieu Chi</b>	<b>Hiroshi Kondoh</b>	<b>Kazuyuki Kanaya</b>	

