

2016 pre-summer-camp mini workshop on
Micro- and Nano- Materials and Thermal Engineering

Date: July 26th, 2016, 10:00-15:05

Place: Conference room 73C2 (7th Floor), Engineering Building II, The University of Tokyo

- 10:00-10:10 *Registration*
- 10:10-10:15 **Opening**
- 10:15-10:30 **Yang Qian (Shigeo Maruyama group, The University of Tokyo)**
Application of Single-Walled Carbon Nanotubes to CNT-Silicon Solar Cells
- 10:30-10:45 **Joseph Katz (Kenneth E. Goodson group, Stanford University)**
Enhancing Thermal Transport in Polymers
- 10:45-11:00 **Takeshi Okochi (Shigeo Maruyama group, The University of Tokyo)**
Rayleigh Scattering Spectroscopy of Single-Walled Carbon Nanotubes
- 11:00-11:15 **Jenny Ardelean (James Hone group, Columbia University)**
Characterization of Low Temperature Excitons in Monolayer MoSe₂
- 11:15-11:25 *Break*
- 11:25-11:40 **Lei Feng (Junichiro Shiomi Group, The University of Tokyo)**
Phonon Transport in Perovskite SrTiO₃ from First Principles
- 11:40-11:55 **Eric Ou (Li Shi group, UT Austin)**
Basal Plane Thermal Conductivity of Suspended Graphene Measured by the Four-probe Thermal Measurement Method
- 11:55-12:10 **Masaki Sota (Shigeo Maruyama group, The University of Tokyo)**
CVD Growth of Single-Crystalline Mono- and Bi-layer Graphene Using Ethanol
- 12:10-12:25 **Kankan Cong (Junichiro Kono group, Rice University)**
Ultrafast Optical Spectroscopy of (6, 5) Single-Wall Carbon Nanotubes
- 12:25-13:30 *Lunch break*
- 13:30-13:45 **Seungju Seo (Shigeo Maruyama group, The University of Tokyo)**
Selective Removal of Metallic Single-Walled Carbon Nanotubes
- 13:45-14:00 **Xiyang Liu (Yan Li group, Peking University)**
Layer-by-Layer Assembling of Catalyst Precursors for Growth of Horizontally Aligned Single-Walled Carbon Nanotubes
- 14:00-14:15 **Aun Ota (Junichiro Shiomi Group, The University of Tokyo)**
Covalent Bonding Effects on Thermal Interface of Carbon and Metal
- 14:15-14:30 **Er-Xiong Ding (Esko Kauppinen group, Aalto University)**
Growth of Morphology-Controllable Carbon Nanomaterials from Catalyst Prepared by Spray-coating Method
- 14:30-14:45 **Hiroya Minowa (Shigeo Maruyama group, The University of Tokyo)**
Chemical Reaction Analysis of Metal Clusters and Ethanol by FT-ICR Mass Spectroscopy
- 14:45-15:00 **Christine Jacob (John Hart group, MIT)**
Influence of Density Gradients on the Thermal Conductivity and Mechanical Compliance of Carbon Nanotube Forests
- 15:00-15:05 **Closing**
- 18:00- **Simple reception (Place: 3rd Floor, 31A)**