

2015 pre-summer-camp mini workshop on  
**Micro- and Nano- Materials and Thermal Engineering**

Date: July 29<sup>th</sup>, 2015, 9:45-15:00

Place: Conference room 31A (3rd Floor), Engineering Building II, The University of Tokyo

- 9:45-9:55      **Registration**
- 9:55-10:00    **Shigeo Maruyama (the University of Tokyo)**  
*Opening talk*
- 10:00-10:20   **Ryo Yoshikawa (Maruyama Group, the University of Tokyo)**  
*Molecular Dynamics simulation of defect free single walled carbon nanotube*
- 10:20-10:40   **Christopher Samuel DiMarco (James Hone group, Columbia)**  
*Multiscale Modeling of Failure of CVD Grown Polycrystalline Graphene*
- 10:40-11:00   **Hua An (Maruyama Group, the University of Tokyo)**  
*Chirality selective growth of SWNTs from sputtered Co-W catalyst*
- 11:00-11:20   **Sean Evan Wisniewski Sullivan (Li Shi group, UT Austin)**  
*Optical excitation and probing of optical and acoustic phonon temperatures in suspended graphene*
- 11:20-11:40   **Lei Feng (Junichiro Shiomi Group, the University of Tokyo)**  
*Phonon transport in perovskite SrTiO<sub>3</sub> from first principles*
- 11:40-11:50   *Break*
- 11:50-12:10   **Fumiya Katsutani (Junichiro Kono group, Rice University)**  
*Single-shot magneto-optical spectroscopy of two-dimensional systems with a table-top pulsed high-field magnet*
- 12:10-12:30   **Takahiro Sakaguchi (Maruyama Group, the University of Tokyo)**  
*Perovskite solar cells with single-walled carbon nanotube cathodes*
- 12:30-13:20   *Lunch break*
- 13:20-13:40   **IL Jeon (Matsuo Group, the University of Tokyo)**  
*Application of Carbon Nanotubes as Electrodes in Photovoltaic Devices*
- 13:40-14:00   **Miri Seo (Esko Kauppinen group, Aalto University)**  
*Individual SWNTs for FETs*
- 14:00-14:20   **Clement Delacou (Maruyama Group, the University of Tokyo)**  
*Growth of single-walled carbon nanotube films for solar cell electrodes*
- 14:20-14:50   **Zeyao Zhang (Yan Li group, Peking University)**  
*Graphene oxide as a unique conductive 2D catalyst support in electrochemical reaction*
- 14:50-15:00   **Closing**
- 18:00-         **Simple Reception /w Murayama-lab farewell party (Place: 31A, same room)**