

# NanoCarbon Workshop of PKU-UTokyo

**July 21 (Tuesday), 2015 9:25-18:00**

Engineering Building II, 3rd Floor, **Conference room 31A**,  
7-3-1 Bunkyo-ku, Tokyo 113-8656, The University of Tokyo

**Co-Chairs: Shigeo Maruyama and Zhongfan Liu**

PKU-UTokyo Joint Research Center of Excellence for Nanocarbons is established to promote collaborative research for nanocarbons (fullerene, nanotubes, and graphene) and exchange of graduate students and young researchers.

## Program

9:25 **Opening**

9:30 **Zhongfan Liu** (PKU): Controlling synthesis of 2-D nanocarbons: From graphene to graphdiyne

10:00 **Tatsuya Okubo** (UTokyo): Nanoporous materials as host of nanomaterials

10:20 **Shohei Chiashi** (UTokyo): Synthesis and applications of horizontally-aligned single-walled carbon nanotubes

10:35-10:50 *Break*

10:50 **Jin Zhang** (PKU): Growth of High Density SWNTs Array on Surface using Trojan Catalysts

11:20 **Shinji Yamashita** (UTokyo): Short-pulse fiber lasers using carbon nanotube and graphene

11:40 **Kosuke Nagashio** (UTokyo) : Layer-by-layer dielectric breakdown of hexagonal boron nitride

12:00-13:20 *Lunch & Discussion*

13:20 **Yutaka Matsuo** (UTokyo): Functionalization of Fullerenes for Organic Solar

## Cells Application

13:40 **Rong Xiang** (UTokyo): Synthesis of small-diameter SWNTs and mechanism investigation by in-plane TEM

13:55 **Yan Li** (PKU): Chirality selective growth of single-walled carbon nanotubes

14:25 **Yasushi Shibuta** (UTokyo): Atomistic-scale simulation of carbon nanotube growth

14:45 **Yuichiro Kato** (UTokyo): Single-carbon-nanotube photonics and optoelectronics

15:05 **Anyuan Cao** (PKU): Carbon Nanotube Sponges

15:35-16:00 *Break*

16:00 **Shigeo Maruyama** (UTokyo): Carbon nanotubes and graphene for solar cell application

16:20 **Lianmao Peng** (PKU): Light emission and detection with carbon nanotubes

16:50 **Reo Kometani** (UTokyo): Performance enhancement of graphene mechanical resonator for high-sensitivity sensing

17:05 **Ryo Shimano** (UTokyo): Quantum Faraday effect in graphene

17:25 Short talks by young faculties

**Kehang Cui** (UTokyo), **Pei Zhao** (Zhejiang University), **Xiao Chen** (UTokyo), **Taiki Inoue** (UTokyo), **Ahmed Shawky** (UTokyo)

17:50 **Closing**

19:00 **Reception** at Abreuvoir (Yayoi Campus)

### *Organized by*

PKU-UTokyo Joint Research Center of Excellence for Nanocarbons

- UTokyo HP: <http://www.photon.t.u-tokyo.ac.jp/~maruyama/PKU-UTokyo/PKU-UTokyo.html>
- PKU HP: <http://www.chem.pku.edu.cn/page/liy/spectre/jrcoe/>

UTokyo Graduate Program for Mechanical Systems Innovation (GMSI)

### *Sponsored by*

- Top Global Program at UTokyo
- Sakura Exchange Program in Science (JST): <http://ssp.jst.go.jp/EN/index.html>
- The Fullerenes and Nanotubes Research Society
- Grant-in-Aid for Scientific Research (S): 15H05760