

2015 PKU-UTokyo Summer Camp

General information

This year's Summer Camp will bring together 40 participants, including 15 (5 faculty members and 10 graduate students) from PKU, and 25 (15 faculty members + 10 students) from UTokyo. For a week time, participants will intensively discuss recent progress in Nano-carbon research, and propose potential collaborations between PKU and UTokyo.

On 21st, we will hold a one day workshop where representatives from both sides will give lectures on their recent results related to nano-carbon research. All participants are suggested to attend.

From 22nd, student participants will be divided into 5 teams for independent work and discussion. Each team will propose a potential collaborative research direction between PKU and UTokyo. To help everybody know each other, a self-introduction session will be held, and all students give a 5 min presentation including brief introduction of themselves and their research.

After intensive work and discussion, students give their final report and presentation on 24th.

The official language of summer camp is English.

Notes:

Participants from PKU *must* give your boarding pass to our staff at the registration. Please send a scanned copy of the boarding pass for your return flight.

The dress code for the Camp is casual; you do not need any formal clothing.

Summers in Tokyo are fairly hot and humid, expecting temperature is 25-30°C, and it may rain.

Contacts:

Email: maruyama (at) photon.t.u-tokyo.ac.jp (Prof. Shigeo Maruyama)
xiangrong (at) photon.t.u-tokyo.ac.jp (Assistant Prof. Rong Xiang)

TEL: <Mon.-Fri. worktime> Maruyama office: +81-3-5841- 6421
Prof. Shigeo Maruyama
<Afterwork time> Rong Xiang

Facilitators:

Hua An (安华): anhua (at) photon.t.u-tokyo.ac.jp
Xiao Chen (陈啸): chen (at) photon.t.u-tokyo.ac.jp
Kehang Cui(崔可航): cui (at) photon.t.u-tokyo.ac.jp

Students

Professors

Both

Program for PKU-UTokyo summer camp

	8 am	9	10	11	12	1 pm	2	3	4	5	6	7	8	9
July 20 (Mon.)					Students' arrival, CA181 (An Hua) Hotel check in ¹ access to hotel			Registration and reception ² access to UT @ 2-31A		Prof. arrival, CA167 (Xiang Rong) Hotel check in @ Forest Hongo				
July 21 (Tues.)		Registration	Workshop of PKU- UTokyo ³ program @ 2-31A		Lunch and discussion (Lunchbox provided)	Workshop of PKU-UTokyo @ 2-31A				Banquet @ Restaurant ABREUVOIR ⁴ place information				
July 22 (Wed.)		Student presentation ⁵ (Inoue) @ 2-301		Lunch and discussion	Lab tour for students & Group working ⁶ (Inoue) @ 2-301				Group working @ 2-301 (If needed) ⁸ Internet information					
		Lab tour for professors ⁷ (Maruyama)			Professor meeting (if needed)									
July 23 (Thur.)		Group working @ 2-73C2 (Kehang)		Lunch and discussion	Group working @ 2-73C2 (Kehang)				Group working @ 2-73C2 (If needed)					
		Professor meeting (if needed)			Professor meeting (if needed)									
July 24 (Fri.)		Morning tour to Ueno Park (Chen Xiao)		Lunch and discussion Group working @ 2-31A (if needed)		Final presentation ⁹ @ 2-31A		Discussion, dinner, refreshment			Summary and Awards @ 2-31A			
July 25 (Sat.)		Visits & Discussions												
July 26 (Sun.)		Departure to Beijing, CA182 (An Hua)												

*All activities except Banquet are held in engineering building 2; Room 2-31A, 2-301 are on 3rd floor, and 2-73C2 is on 7th floor.

1. Hotel for students

Hotel information:

<http://www.tokyustay.co.jp/e/hotel/SUI/>

Hotel name: Tokyu Stay Suidobashi

Address: 1-1-12 Misaki-cho, Chiyodaku, Tokyo, 101-0061

Phone number: 03-3293-0109

Check-in date: 2015-07-20 (Mon.)

Check-out date: 2015-07-26 (Sun.)

Check scheduled time: 18:00←It is possible from 13:00 p.m.

Type of room: single A semi double bed-non-smoking 15 square meter x 1 room

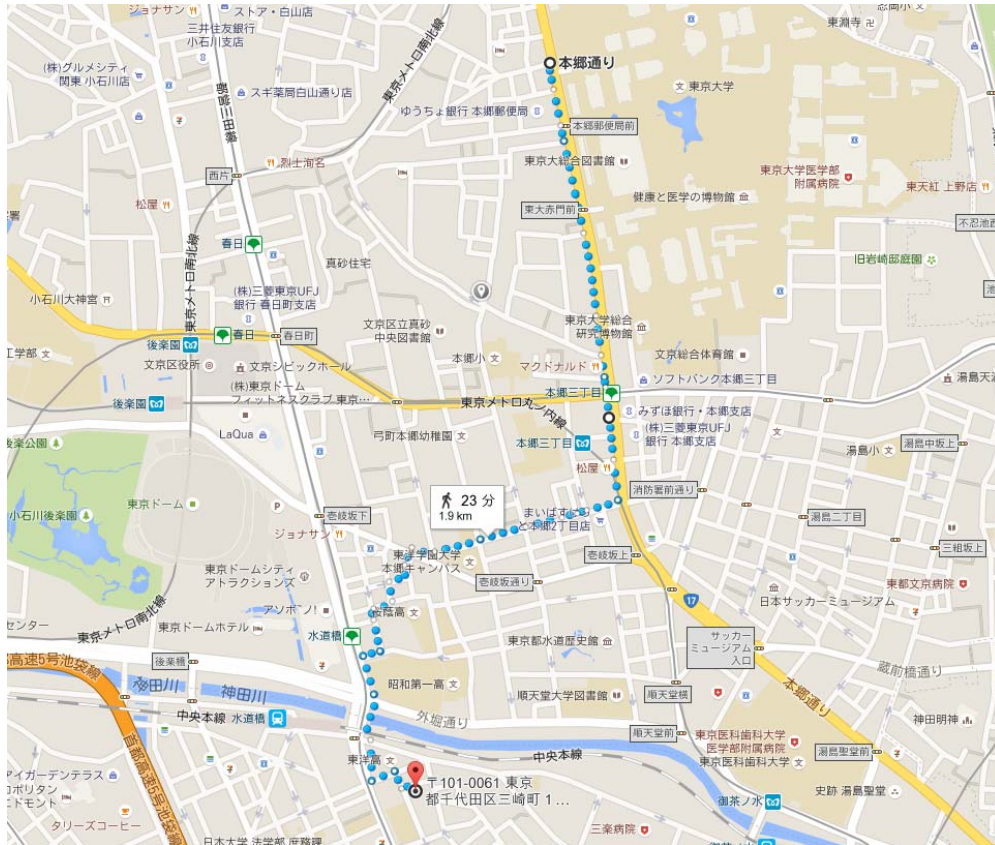
Free Internet access equipped with washing drying machine with Simmons's bed

Capacity per room per person (adult 1)

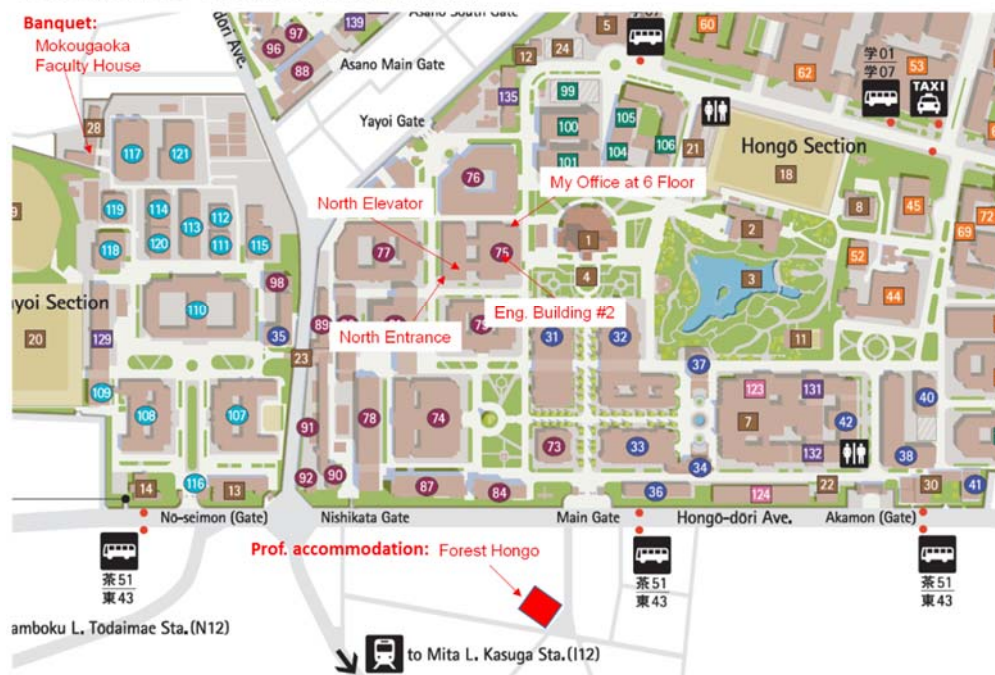
2. Access to UTokyo, Engineering Building #2

Students are recommended to walk (20 min) from hotel to UTokyo. It is a good exercise.

Taking subway (Mita line 三田線) for only one stop from Suidoubashi (水道橋) to Kasuga (春日) is not always more convenient.



Maruyama Chiashi Lab. in Engineering Building 2, Office room number 63C2
Registration at 3rd floor, room number 2-31A



3. Workshop program



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

4. Banquet information

Everybody (both faculties and students) from PKU and UTokyo is invited to banquet.

Banquet:

July 21, 19:00-21:00

Restaurant ABREUVOIR

The University of Tokyo, Yayoi Campus,

1-1-1 Yayoi, Bunkyo-ku, Tokyo 113-0032 Japan

TEL 03-5805-2505 FAX 03-5805-2565

http://www.u-tokyo.ac.jp/campusmap/cam01_00_30_j.html

!!Important!!

Due to fund regulation in Japan, unfortunately, all participants must share the cost for the drinks (Food is covered).

We will collect money at end of Banquet

Professor: 2000 yen

Student: 1000 yen



5. Students presentation

All the student participants from both PKU and UT side will be asked to give a 5 min presentation including your self-introduction and research direction. Please prepare PowerPoint file and test its functioning before the presentation (22nd)

6. Grouping

You are suggested to form 5 team x 4 people. In general, please make teams freely, but each team is suggested to have 2 PKU students and 2 UT students. A team with all Chinese is not allowed.

7. Lab tours

We will visit

Okubo-lab @ Chemical System Engineering

<http://www.zeolite.t.u-tokyo.ac.jp/>

Place: 5B07 (工学部 3 号館)

Contact:

Zhendong Liu (シヤンドン リュー)

Keoh Sye Hoe (キョー・サイ・ホー)

5 階につきましたら、内線 27368 に連絡下さい

Kato-lab @ Institute of Engineering Innovation:

<http://ykkato.t.u-tokyo.ac.jp/index.en.html>

Place: 407 (工学部 9 号館)

Contact: (AM)加藤 雄一郎 内 21820

(PM)東出 紀之 内 27702

Kometani-lab @ Mech. Engineering

<http://www.nanome.t.u-tokyo.ac.jp/>

Place: B11C1 (工学部 2 号館)

Contact: 前田 悦男, 内 26336, 21639

Maruyama-lab @ Mech. Engineering

<http://www.photon.t.u-tokyo.ac.jp/>

Place: B11A1 (工学部 2 号館)

Contact: Keigo Otsuka, 内 26408

Details:

Professors (Attended by S. Maruyama)

9:30-10:15 Maruyama-Chiashi Lab.

10:15-10:30 Transfer

10:30-11:00 Okubo Lab.

11:00-11:15 Transfer

11:15-11:45 Kato Lab.

Students Group A (Attended by Hua An)

13:30-14:00 Maruyama-Chiashi Lab.

14:00-14:30 Kometani Lab.

14:30-14:45 Transfer

14:45-15:15 Okubo Lab.

15:15-15:30 Transfer

15:30-16:00 Kato Lab.

Students Group B (Attended by Il Jeon)

13:30-14:00 Okubo Lab.

14:00-14:15 Transfer

14:15-14:45 Kato Lab.

14:45-15:00 Transfer

15:00-15:30 Maruyama-Chiashi Lab.

15:30-16:00 Kometani Lab.

8. Internet

All participants from PKU side will be provided by a guest account for wifi access in UT at registration.

Participants from UT side please use your own wifi access (utroam, istmember, etc.) and please do NOT share your account with our visitors (due to the recent network attack to UT known in newspapers, UT is now very sensitive to the security issue).

9. Final presentation

- ✓ Each team proposes a potential collaborative project between PKU and UT
- ✓ Topic should be related but not limited to Nano-carbon research
- ✓ Each team gives a 10 min presentation on their proposal. (10 min talk + 5 min Q&A)
- ✓ All members of a team need to present, and the contributions of each member need to be clarified at beginning of the presentation.
- ✓ Each team needs to submit one page summary (format not limited), as well as their presentation PowerPoint for final score.

10. Participant list

	Name	Name in 漢	Affiliation	Position	e-mail
1	Zhongfan Liu	刘 忠范	Peking University	Professor	zfliu(at)pku.edu.cn
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4	Yan Li	李 彦	Peking University	Professor	yanli(at)pku.edu.cn
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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)