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.

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
      <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

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.
### Program for PKU-UTokyo summer camp

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<td><strong>July 20 (Mon.)</strong></td>
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<td>Students’ arrival, CA181 (An Hua) Hotel check in 1 access to hotel</td>
<td>Registration and reception 2 access to UT @ 2-31A</td>
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<td><strong>July 21 (Tues.)</strong></td>
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<td>Workshop of PKU-UTokyo program @ 2-31A</td>
<td>Lunch and discussion (Lunchbox provided)</td>
<td>Workshop of PKU-UTokyo @ 2-31A</td>
<td>Banquet @ Restaurant ABREUVOIR4 place information</td>
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<td><strong>July 22 (Wed.)</strong></td>
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<td>Student presentation 5 (Inoue) @ 2-301</td>
<td>Lab tour for students &amp; Group working6 (Inoue) @ 2-301</td>
<td>Professor meeting (if needed)</td>
<td>Group working @ 2-301 (If needed)</td>
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<td><strong>July 23 (Thurs.)</strong></td>
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<td>Lab tour for professors 7 (Maruyama)</td>
<td>Lunch and discussion</td>
<td>Group working @ 2-73C2 (Kehang)</td>
<td>Group working @ 2-73C2 (If needed)</td>
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<td><strong>July 24 (Fri.)</strong></td>
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<td>Group working @ 2-73C2 (Kehang)</td>
<td>Lunch and discussion</td>
<td>Professor meeting (if needed)</td>
<td>Final presentation 9 @ 2-31A</td>
<td>Discussion, dinner, refreshment</td>
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<td><strong>July 25 (Sat.)</strong></td>
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<td>Morning tour to Ueno Park (Chen Xiao)</td>
<td>Group working @ 2-31A (if needed)</td>
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*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.
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


13:40 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


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 (シャンドン 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.
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Organized by
- PKU-UTokyo Joint Research Center of Excellence for Nanocarbons
  PKU HP: http://www.chem.pku.edu.cn/page/liy/spectre/jrcoe/
- UTokyo Graduate Program for Mechanical Systems Innovation (GMSI)

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- 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)