

## The 2<sup>nd</sup> Workshop on “Fracture, Cracking, Dislocation”

Date : August 31<sup>st</sup> (Fri) - September 1<sup>st</sup> (Sat), 2012  
Venue : Room 05-202, 5<sup>th</sup> floor, Mid-Campus Open Laboratory Bldg. No.2,  
Research Institute for Electronic Science(RIES),  
Hokkaido University, N12W7, Kita-Ward, Sapporo, Japan

### Schedule: August 31<sup>st</sup>, 2012

13:25-13:30 **Opening**

13:30-14:30 **Session 1 : Jian Ping GONG** (Laboratory of Soft & Wet Matter, Hokkaido Univ.)  
“Tough Hydrogels Based on Sacrificial Bond Principle”  
『犠牲結合によるハイドロゲルの高靱性化』

14:30-15:30 **Session 2 : Ken NAKAJIMA** (Soft Materials Group, WPI-AIMR, Tohoku Univ.)  
“Fracture mechanics investigated by nano-palpatation AFM”  
『ナノ触診AFMで調べる破壊力学』

15:30-16:00 **Coffee break**

16:00-17:00 **Session 3 : Nariya UCHIDA** (Theoretical Condensed Matter and Statistical Physics Group,  
“Synchronization and collective dynamics of microfluidic rotors” Tohoku Univ.)  
『マイクロ流動回転子の同期現象と集団動力学』

### Schedule: September 1<sup>st</sup>, 2012

10:00-11:00 **Session 4 : Shinji DEGUCHI** (Dept. of Bioengineering and Robotics, Tohoku Univ.)  
“Roles of stress fibers in the regulation of pro-inflammatory signaling”  
『炎症促進シグナルの沈静化におけるストレスファイバーの役割』

11:00-12:00 **Session 5 : Toshinori FUJIE** (Device/System Group, WPI-AIMR, Tohoku Univ.)  
“Investigation of Nano-Structure and Property of Polymeric Ultra-Thin Films  
for Biodevice Development”  
『高分子超薄膜のナノ構造および物性を利用したバイオデバイス開発』

12:00-13:30 **Lunch**

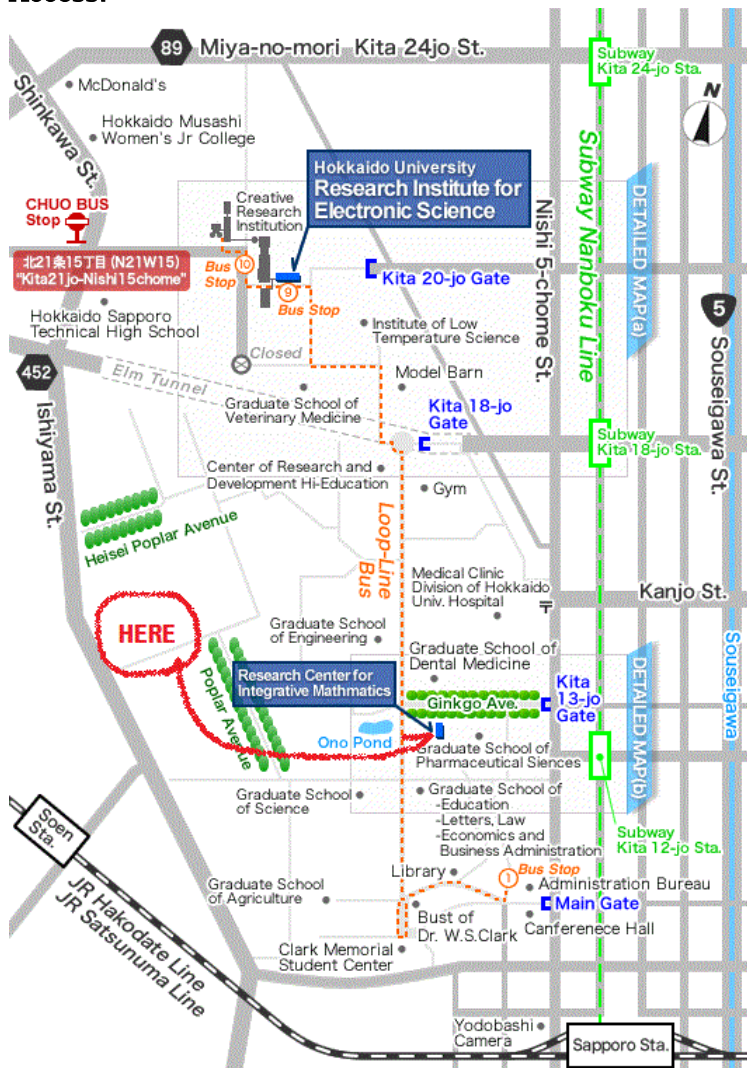
13:30-14:30 **Session 6 : Tasuku NAKAJIMA** (Laboratory of Soft & Wet Matter, Hokkaido Univ.)  
“Internal Fracture Behavior of Tough Double Network Hydrogels”  
『超高強度ダブルネットワークゲルの内部破壊現象』

14:30-15:30 **Session 7 : Masakazu AKIYAMA** (Lab. of Mathematical Modeling, RIES, Hokkaido Univ.)  
“A Mathematical Model of Cleavage” 『卵割の数理モデル』

15:30-17:00 **Discussion with coffee**

**Organizers:** Yasumasa Nishiura, Natsuhiko Yoshinaga (Mathematics Unit, WPI-AIMR, Tohoku Univ.)  
Masakazu Akiyama (Laboratory of Mathematical Modeling, RIES, Hokkaido Univ.)

## Access:



## How to Access the RIES (Mid-Campus Open Laboratory Building No.2)

### From JR Sapporo Sta.

- Walk 10 min. to the university main gate and from there walk 7 min. to the RIES building (Mid-Campus Open Laboratory Building No.2).
- There is a bus service every 15 min. from "the Administrative Bureau" which is located on the right side of the main gate where you can ride a bus for 4 min. and get off at [Chuo-Doro-Kogakubu-Mae] (4th bus stop). You can see the RIES building on your right side.

Bus service: 8:30-9:30 (every 10min.)  
 : 9:30-17:00 (every 15min.)  
 : 17:00-18:00 (every 10min.)  
 : 18:00-18:30 (every 15min.)

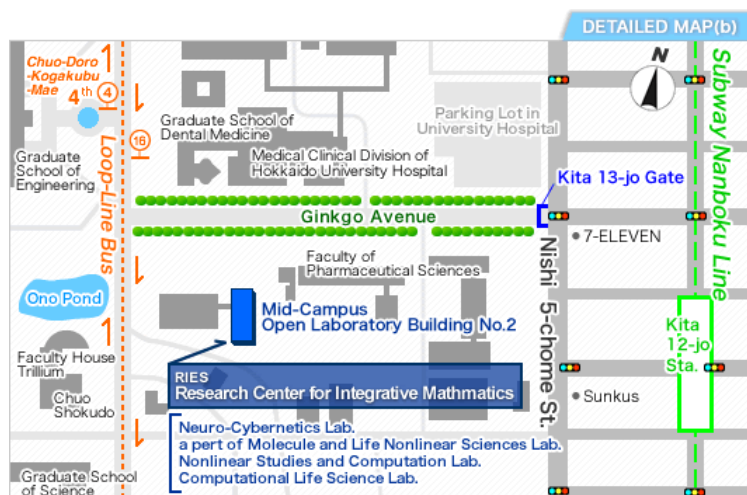
### From Kita-12-Jo Sta. (Subway Nanboku Line for Asabu)

- Walk 5 min. to the Kita 13-Jo gate and walk 3 min. to the RIES building (Mid-Campus Open Laboratory Building No.2)

## Contact

Local organizer: Masakazu Akiyama  
 (Laboratory of Mathematical Modeling,  
 RIES, Hokkaido Univ.)

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