



## The 3<sup>rd</sup> Workshop on “Fracture, Cracking, Dislocation”

Date : March 9<sup>th</sup> (Sat) – 11<sup>th</sup> (Mon), 2013

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: March 9th, 2013

13:30-14:00 **Opening**

14:00-15:30 **Session 1 : Yoshimi Tanaka (Yokohama National University)**

Control of contact edge shape leads to enhancement of adhesive strength.

A case study in capillary adhesion of soft matter

『形状を制御し接着強度を高める:ソフトマターの毛管接着の場合』

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

16:00-17:30 **Continuation of Session 1**

### Schedule: March 10th, 2013

10:00-12:00 **Session 2 : Takeshi Takaishi (Hirosima Kokusai Gakuin University)**

J-integral of the phase-field model of the crack growth

『フェーズフィールドモデルとJ積分』

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

13:30-15:00 **Session 3 : Katsuhiko Sato (RIKEN Center for Developmental Biology)**

Maxwell fluids implemented by a variational principle

『流れる弾性板:2次元Maxwell fluidを変分原理で実装する』

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

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

### Schedule: March 11th, 2013

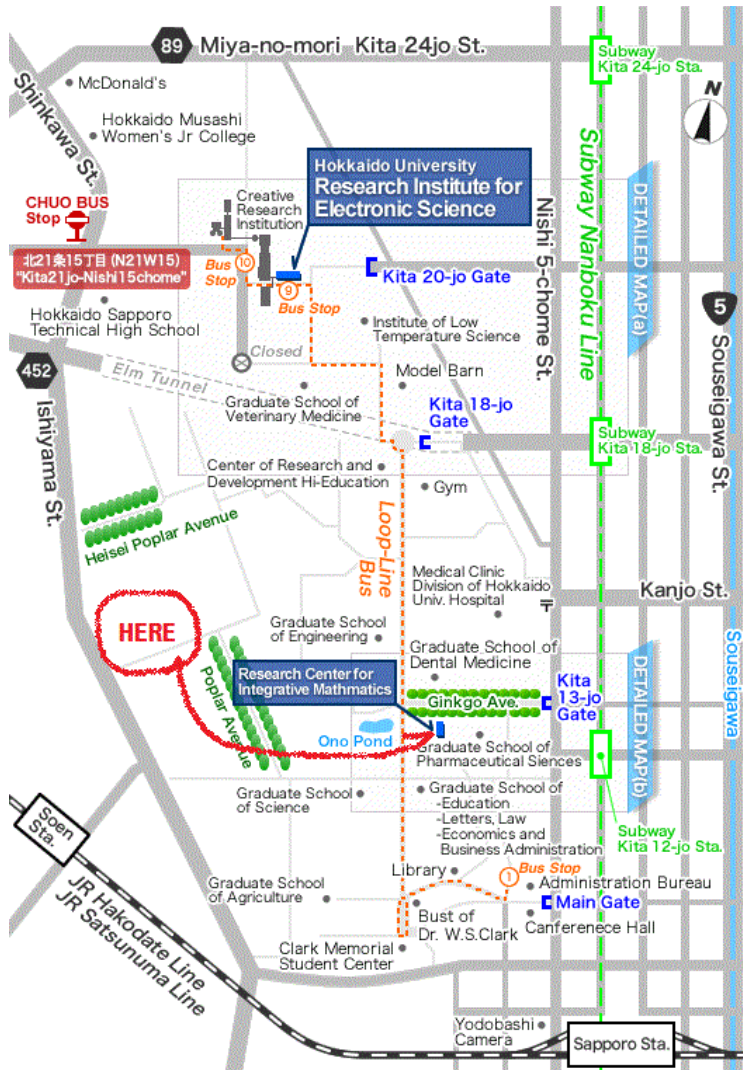
10:00-12:00 **Session 4 : Natsuhiko Yoshinaga (WPI-AIMR, Tohoku University)**

Continuum description of fracture and inhomogeneity with Eshelby tensor in an elastic material

『Eshelby tensorを用いた不均一な弾性体としての破壊の記述への試み』

**Organizers:** Yasumasa Nishiura, Natsuhiko Yoshinaga (Mathematics Unit, WPI-AIMR, Tohoku Univ.)

**Access:**



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

**From JR Sapporo Sta.**

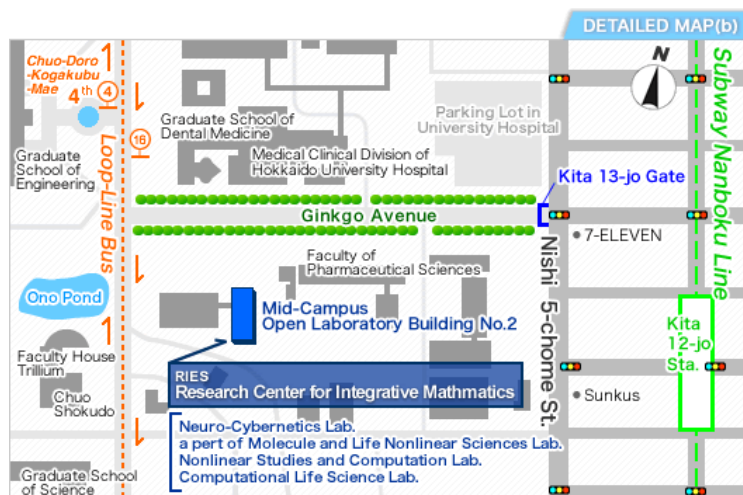
- Walk 10 min. to the university main gate and from there walk 7 min. to the RIES building (Mid-Campus Open Laboratory Building No.2).
- There is a bus service every 15 min. from "the Administrative Bureau" which is located on the right side of the main gate where you can ride a bus for 4 min. and get 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)



**Access Map URL** <http://www.es.hokudai.ac.jp/english/about/>