

Hungary-Japan (HAS-JSPS) Workshop on Physics of Rheology and Fracture

Date & Time: 5th December, 2016 (Mon.), 9:55 – 17:00

Place: Room 910-2, West 4 Building, Ito Campus, Kyushu University

(Address: 744 Motoooka, Nishi-ku, 819-0395 Fukuoka

Access: <http://suisin.jimu.kyushu-u.ac.jp/en/info/index.html>)



Timetable:

9:55 – 10:00 Opening remarks, Akio Nakahara (Nihon Univ.)

Chair: Akio Nakahara (Nihon Univ.)

10:00 - 10:20 **Tetsuo Yamaguchi** (Kyushu Univ.) and Hiroshi Ohtsubo,
Prediction of catastrophic mechanical phenomena.

10:20 - 10:40 **Takeshi Tsuji** (Kyushu Univ.),
Fault displacement and fluid in the earth.

10:40 - 11:00 **Naoki Yoshioka** (RIKEN),
Jump statistics of epicenters in thermally-activated fiber-bundle model.

11:00 - 11:20 **Hiizu Nakanishi** (Kyushu Univ.) and Shin-ichiro Nagahiro,
Negative pressure in shear thickening bands of a dilatant fluid.

11:20 - 13:00 Lunch

Chair: Tetsuo Yamaguchi (Kyushu Univ.)

13:00 - 13:20 **Akio Nakahara** (Nihon Univ.), Ryota Yoneyama, Maruto Ito, Ryoma Ishikawa and Yousuke Matsuo, *Experiments to control crack formation by imprinting, rewriting and erasing memories in pastes.*

13:20 - 13:40 **Sho Sasagawa** (Nihon Univ.), Kento Yamamoto, Yousuke Matsuo and Akio Nakahara,
The rewriting of memory effect in magnetic paste.

13:40 - 14:00 **Chihiro Uemura** (Nihon Univ.), Akio Nakahara and Yousuke Matsuo,
Rheology and memory effect of hot paste.

14:00 - 14:10 Break

Chair: Nobuyasu Ito (Univ. Tokyo)

14:10 - 15:00 **Ferenc Kun** (Univ. Debrecen),
Discrete element modelling of the effect of magnetic field on dessiccation induced cracking.

15:00 - 15:20 **Zoltán Halász** (Univ. Debrecen),
The role of disorder in desiccation induced cracking.

15:20 - 15:30 Break

Chair: Naoki Yoshioka (RIKEN)

15:30 - 15:50 **Zsuzsa Danku** (Univ. Debrecen),
Fracture process in the limit of strong disorder.

15:50 - 16:00 **Miyuki Mano** (Nara Women's Univ.) and So Kitsunezaki,
Two-dimensional simulations of self-driven cracks in a cooling process.

16:00 – 16:10 **Risa Yoshioka** (Doshisha Univ.),
Transition of cracking pattern on drying starch paste.

16:10 - 16:20 Break

Chair: So Kitsunezaki (Nara Women's Univ.)

16:20 - 16:40 **Ai Hamada** (CRIEPI),
Analogue experiments for understanding of factors controlling morphological transition in columnar joints.

16:40 - 17:00 **Shio Inagaki** (Kyushu Univ.) and Masamichi Ooishi,
Segregation dynamics in a rotating cylinder depending on a rotational speed.

Closing Remarks: Akio Nakahara

Free discussion, Short labo tour, etc.

18:30 Banquet

Suginoya <http://www.suginoya.co.jp/index.html>



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