



i²plus 3rd Int. Symp. on Interfacial Thermo-Fluid Dynamics

Tokyo University of Science (Katsushika Campus), 25th & 26th Feb. 2015

*place: Room K502, Lecture Hall, Tokyo University of Science (Katsushika)
6-3-1 Niijuku, Katsushika, Tokyo 125-8585*

Program

as of 20150220

25th Feb

- 09:00 ~ room open
- 09:50 ~ opening remarks
I. Ueno (TUS)
- 10:00 ~ 10:55 keynote #1
Highlights of research on interfacial instability done at the University of Florida
R. Narayanan (U. Florida, USA)
- 11:00 ~ 12:10 oral session #1
- 11:00 ~ 11:30 *Direct numerical simulations on micro-scale multiphase flows: controls of contact line and droplet*
T. Tsukahara (TUS)
- 11:35 ~ 12:05 *Rapid rupturing of ultra-thin liquid film*
S. Kono, T. Kaneko & I. Ueno (TUS)
- 12:10 ~ 13:45 lunch break
- 13:45 ~ 14:40 keynote #2
Nonlinear dynamics of a thin liquid film on a laterally vibrating corrugated surface in the high-frequency limit
A. Oron & S. Duruk (Technion, Israel)
- 14:45 ~ 16:15 poster session #1
- 16:20 ~ 17:25 oral session #2
- 16:20 ~ 16:50 *Interfacial chemistry in room temperature ionic liquids*
H. Sakai, T. Misono, K. Sakai (TUS)
- 16:55 ~ 17:25 *Semi-local friction factors of gas flow in rectangular microchannels*
C. Hong, T. Nakamura (Kagoshima U.) & I. Ueno (TUS)
- 17:30 ~ 17:45 Group Photo
- 18:00 ~ 19:00 lab tour
- 19:15 ~ 21:00 banquet

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26th Feb

- 9:30 ~ room open
- 10:00 ~ 10:55 keynote #3
Example of patterns at liquid interfaces
F. Zoueshtiagh (U. Lille 1, France)
- 11:00 ~ 12:10 oral session #3
11:00 ~ 11:30 *External-field-induced microfluidics*
M. Motosuke (TUS)
11:35 ~ 12:05 *Molecular design for controlling interfacial phenomena*
T. Kaneko (TUS)
- 12:10 ~ 13:45 lunch break
- 13:45 ~ 14:40 keynote #4
Wave-induced momentum transport in (falling) liquid films: simulations, experiments and modeling
G. F. Dietze (U. Paris-Sud, France)
- 14:45 ~ 16:05 poster session #2
- 16:10 ~ 16:40 oral session #4
16:10 ~ 16:40 *Particle-contact line interaction in droplet spreading*
H. Himeda, T. Eguchi & I. Ueno
- 16:40 ~ closing

Poster presentation (25th & 26th Feb)
(alphabetical order)

Microscopic temperature imaging of fluid based on fluorescent anisotropy
T. Aida (M1), Y. Kameya & M. Motosuke

Condensation/collapse of vapor bubble on horizontal circular heated surface in subcooled pool boiling
J. Ando (M1), T. Saiki, T. Kaneko & I. Ueno

Numerical simulation of micro droplet manipulated by temperature-dependent interfacial force
N. Kazuno (B4), T. Tsukahara & M. Motosuke

Direct numerical simulation of dynamic wetting around small particle considering capillary force
Y. Miyazaki (M2), T. Tsukahara & I. Ueno

Continuous separation of tumor cells by two-step dielectrophoresis
T. Shimizu (M1), Y. Kameya & M. Motosuke