

OS19: Multiphase Thermal Fluid Flow and Its Interface Dynamics

November 18, 2024

EX-4-A

- OS19-1 **Stress Induced by Droplets Impacting onto Soft Substrates** (*Invited*)
13:10-13:50 Yoshiyuki Tagawa, Kaie Matsunuma, Yoshinobu Iwasawa (Tokyo University of Agriculture and Technology, Japan), Hirokazu Maruoka, Yuto Yokoyama (Okinawa Institute of Science and Technology, Japan)
- OS19-2 **Drop Propulsion on Heated Plate with Asymmetric Heterogeneous Wettability**
13:50-14:20 Ryota Ato, Ryuhei Goto, Taimei Miyagawa, Minori Shirota (Hirotsuki University, Japan)
- OS19-3 **On the Dynamics of a Laser-induced Cavitation Bubble in a Corner of a Flexible Beam and a Rigid Wall**
14:20-14:40 Seiya Haranaga, Sorao Maruyama, Akihito Kiyama (Saitama University, Japan), Kotaro Sato (Kogakuin University, Japan), Donghyuk Kang (Saitama University, Japan)
- OS19-4 **Enhanced Pancake Model for Dynamics of Impacting Drops**
14:50-15:10 Takumu Yamaya, Ryoichiro Miura, Taimei Miyagawa, Minori Shirota (Hirotsuki University, Japan)
- OS19-5 **Predicting Shear-thinning Viscosity through Droplet Impact Using Machine Learning**
15:10-15:30 Masanori Naito, Shunsuke Kumagai, Shun Miyatake, Yoshiyuki Tagawa (Tokyo University of Agriculture and Technology, Japan)
- OS19-6 **Numerical Study of Droplet Thermocapillary Motion in Microchannels Using Lattice Boltzmann Method**
15:30-15:50 Xiaojin Fu, Guangtao Zhai, Chenguang Lai (Chongqing University of Technology, China)
- OS19-7 **Experimental Investigation on a Novel Coherent Structures Formed by Suspended Low-Stokes-Number Particles in a High-Aspect-Ratio Liquid Bridge**
15:50-16:10 Sho Shidomi, Shin Noguchi, Ichiro Ueno (Tokyo University of Science, Japan)
- OS19-8 **Microdroplet Impact Phenomena on a Heated Surface under Inertial Force Dominance**
16:30-16:50 Tomohiro Tabata, Misa Kawaguchi, Yoshiyuki Tagawa (Tokyo University of Agriculture and Technology, Japan)
- OS19-9 **Numerical Analysis of Liquid Film Formation in a Visco-Inertial Capillary Flow**
16:50-17:10 Daisuke Tsuneoka, Junnosuke Okajima (Tohoku University, Japan)
- OS19-10 **Hydrodynamic and Heat Transfer Characteristics of Oscillatory Gas-liquid Taylor Flow**
17:10-17:30 Hai Tao, Zhanying Zheng (Harbin Institute of Technology, China), Raghvendra Gupta (Indian Institute of Technology, India)

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EX-4-B

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| OS19-11
9:00-9:40 | Hot Liquid Marble (<i>Invited</i>)
Pritam Kumar Roy, Yui Takai, Rui Matsubara (The University of Tokyo, Japan),
Mizuki Tenjibayashi (National Institute for Materials Science (NIMS), Japan),
<u>Timothée Mouterde</u> (The University of Tokyo, Japan) |
| OS19-12
9:40-10:00 | Modelling Secondary Atomization of Multiphase Droplets for Cryogenic Carbon Capture
<u>Po-Han Chen</u> , Alberto Ceschin, Francisco E. Hernández-Pérez, Hong G. Im
(King Abdullah University of Science and Technology, Kingdom of Saudi Arabia) |
| OS19-13
10:00-10:20 | Experimental Investigation on Weber Number Effect on Heat Transfer of an Impacting Drop Containing Ice Particles
<u>Yuzuki Kimura</u> , Hiroto Echigo (Hirotsaki University, Japan), Junnosuke Okajima (Tohoku University, Japan), Minori Shirota, Takahiro Okabe (Hirotsaki University, Japan) |