OS19: Multiphase Thermal Fluid Flow and Its Interface Dynamics

November 10, 2025 EX-3A

OS19-1 13:30-14:10	Making Melting More Complicated (Invited) Sander G. Huisman (University of Twente, The Netherlands)
OS19-2 14:10-14:30	Evaporation-Induced Freezing Dynamics of Droplets Levitated in Acoustic Field Koji Hasegawa, Misaki Mitsuno (Kogakuin University, Japan), Xiao Ma (National Maritime Research Institute, Japan)
OS19-3 14:30-14:50	Scale Estimation of Defect-Free and Striated Regions in Solidification during Molten Metal Drop Impact Minori Shirota, Takahiro Okabe, Taimei Miyagawa, Yuma Yamagami, Ryusei Sugita (Hirosaki University, Japan)
15:00-15:15	BREAK
OS19-4 15:15-15:35	Molecular Dynamics Simulation of Near-Wall Bubble Collapse Induced by Shock Wave Keita Moriyama, Takanori Mori, Satoshi Watanabe, Shin-ichi Tsuda (Kyushu University, Japan)
OS19-5 15:35-15:55	Three-Dimensional Numerical Simulation of Microchannel Taylor Bubble: Effects of Internal Flow Structures on Liquid Film Formation <u>Daisuke Tsuneoka</u> , Junnosuke Okajima (Tohoku University, Japan)
OS19-6 15:55-16:15	Investigation of Wide Temperature Range Flow Regimes and Lubricating Film Properties in Rotating Disc Chunhui Wei (Beijing Institute of Technology, China / INSA-Lyon, France), <u>Daniel Nelias</u> , Valery Botton (INSA-Lyon, France), Wu Wei, Yi Liu (Beijing Institute of Technology, China)
OS19-7 16:15-16:35	Numerical Study of Microlayer Formation and its Dynamics During Nucleate Boiling of Dielectric Liquid Junnosuke Okajima, Hikaru Ishibashi, Koki Ota (Tohoku University, Japan), Peter Stephan (Technical University of Darmstadt, Germany)
16:45-17:00	BREAK
OS19-8 17:00-17:20	Results of Experimental Studies and Modeling Concerning the Asymmetry of Liquid Film Thickness for Different Tube Diameters Andrzej I. Nowak, Tomasz Duraziński (Wrocław University of Science and Technology, Poland), Daisuke Tsuneoka, Junnosuke Okajima (Tohoku University, Japan)
OS19-9 17:20-17:40	Thermal Performance of Boron-Based Nanofluid in a Battery Thermal Management System Bilal Kursuncu, Abid Ustaoglu, Ferhat Yıldız (Bartin University, Turkey), Junnosuke Okajima (Tohoku University, Japan)

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OS19-10 13:30-13:50	Pressure Estimation of Acoustic and Shock Waves through Calibrated Schlieren Imaging Gianmaria Viciconte, Paolo Guida, Tadd T. Truscott, William L. Roberts (King Abdullah University of Science and Technology (KAUST), Saudi Arabia)
OS19-11 13:50-14:10	Bubbly Shock Waves Characterization in Aerated Cavitating Flows in Water and Dodecane via Computer Vision Tools Elad Zur , Igal Gluzman (Israel Institute of Technology, Israel)
OS19-12 14:10-14:30	Is There a Chance to Absorb Atmospheric Moisture for an Evaporating Methanol Drop? Ajay Kumar Mannem, <u>Deepak Kumar Mandal</u> (Indian Institute of Technology Dhanbad, India)
OS19-13 14:30-14:50	Visualization Investigation of the Methanol/Diesel Spray-To-spray Impingement Characteristics Yuming Zhang, Zunhua Zhang, Dongsheng Dong, Gesheng Li, Xinyu Xie (Wuhan University of Technology, China)
15:00-15:15	BREAK
OS19-14 15:15-15:35	Experimental Investigation of Drops Gyrating on Heated Surfaces with Asymmetric Wettability Hiroto Kurita, Takahiro Okabe (Hirosaki University, Japan)
OS19-15 15:35-15:55	Condensation-Induced Non-Contact Bouncing Failure Guillaume Deschasaux, Jiaxing Shen, Yuki Serata (The University of Tokyo, Japan), Mizuki Tenjimbayashi (National Institute for Materials Science, Japan), <u>Timothée Mouterde</u> (The University of Tokyo, Japan)
OS19-16 15:55-16:15	Evaluation of Viscous Dissipation with Rim Development in Drop Impact <u>Tousei Kishi</u> , Takumu Yamaya, Taimei Miyagawa, Minori Shirota (Hirosaki University, Japan)
OS19-17 16:15-16:35	Dominant Role of Solid Particles in Drop-Impact Heat Transfer <u>Taku Sakurai</u> , Kento Kudo, Minori Shirota, Takahiro Okabe (Hirosaki University, Japan)