

OS20: Multiphysics in Fluid Mechanics

November 11, 2025

EX-3A

- | | |
|-----------------------|--|
| OS20-1
9:15-9:30 | Proposal of an Instability Evaluation Method for a Liquid Jet Model Using Surface Texture
<u>Ayuki Minami</u> , Shota Nakashima, Yoshihide Mawatari, Masato Yamamura, Yasuhiro Saito (Kyushu Institute of Technology, Japan) |
| OS20-2
9:30-9:45 | Flow Visualization and Acoustic Characteristics of Underexpanded Jets from a Tabbed Convergent Nozzle
<u>Shunta Togoshi</u> , Shinichiro Nakao, Yoshiaki Miyazato (The University of Kitakyushu, Japan) |
| OS20-3
9:45-10:00 | Carbon Dioxide Driven Precipitation of Lithium Carbonate in a Bubble-Column Reactor
<u>Elia Colleoni</u> , Juan Restrepo Cano, Paolo Guida, William L. Roberts (King Abdullah University of Science and Technology (KAUST), Saudi Arabia) |
| OS20-4
10:00-10:15 | Temperature-Driven Leaching of Lithium Cobalt Oxide Black Mass: Experimental Insights and Pore-Scale Lattice Boltzmann Modeling
<u>Juan Restrepo-Cano</u> , Elia Colleoni, Elisa di Pieri, Paolo Guida, William L. Roberts (King Abdullah University of Science and Technology (KAUST), Saudi Arabia) |
| OS20-5
10:15-10:30 | Generation of Pulsed Discharges over Water Surface and Their Applications for Environment and Agriculture (<i>Invited</i>)
<u>Katsuyuki Takahashi</u> , Koichi Takaki (Iwate University, Japan) |
| 10:30-10:45 | BREAK |
| OS20-6
10:45-11:15 | Zero-defect Printing with DED-GMA via Adaptive Controls (<i>Invited</i>)
Götz-Friedrich Gottschalk (Technische Hochschule Brandenburg, Germany), Prashant Kumar Chaurasia (Bundesanstalt für Materialforschung und –prüfung, Germany), <u>Sven-F Goecke</u> (Technische Hochschule Brandenburg, Germany) |
| OS20-7
11:15-11:30 | Electron Energy Transport Process in Weakly Ionized Gases and Its Application to Arc Interruption (<i>Invited</i>)
<u>Naoto Kodama</u> (Nagoya University, Japan) |
| OS20-8
11:30-11:45 | Large Eddy Simulations of an Inverted Umbrella Aerator Using Smoothed Particle Hydrodynamics
<u>Masato Hirota</u> (Sumitomo Heavy Industries, Ltd., Japan) |
| OS20-9
11:45-12:00 | Numerical Investigation Of Two-Fluid Magnetohydrodynamics Flow In Channels With Heat Flux
Avick Sinha (University of Brighton, UK), <u>Shivasubramanian Gopalakrishnan</u> (Indian Institute of Technology Bombay, India), Saurabh Unni (Boyd Corp, India), Upendra Bhandarkar, Kowsik Bodi (Indian Institute of Technology Bombay, India) |