

**OS1: The First International Symposium on Integrated Flow Science I & III
Advanced Materials and its Energy Application
&
Multiphase Energy Science and Technology (Combination of Monozukuri-Fluid
Science / Engineering)**

November 6, 2023
CON-SHIRAKASHI 2

- OS1-1 **Mathematical Modeling of the Sensible Regions of Leaked Hydrogen Around a Flying Quad-Rotor Drone (*Invited*)**
14:10-14:50 Kazuo Matsuura (Ehime University, Japan), Alisa Slabbinck Matsumoto (KU Leven, Belgium)
- OS1-2 **A Comparison of Solid Oxide Fuel Cell Performance on Ammonia Versus Hydrogen**
14:50-15:10 Cole Wilhelm, Jeongmin Ahn (Syracuse University, USA)
- OS1-3 **Metal-Doped Fungi Biomass for Battery Electrode Material**
15:10-15:30 Kassidy Fields, Cole Wilhelm, Jeongmin Ahn, Scott Erdman (Syracuse University, USA)
- OS1-4 **Optimal Operating Conditions for an Electric ECS in Ground Parking Status**
15:50-16:10 Yuto Amano (Akita University, Japan), Hidefumi Saito (Shimadzu co. ltd., Japan), Takahiro Adachi (Akita University, Japan)
- OS1-5 **Study on Flow Characteristics of a Control Valve in a Perforated Cage by CFD Analysis**
16:10-16:30 Yuki Kurosawa, Chongho Youn (Azbil Corporation, Japan)
- OS1-6 **Blowoff Limits of the Smoldering Processes**
16:30-16:50 Pichayaporn Viriya-amornkij, Kazunori Kuwana (Tokyo University of Science, Japan)
- OS1-7 **Detection of Severe Fire Events by Image Processing**
16:50-17:10 Nicharee Thinnakornsutibutr, Kazunori Kuwana, Masayuki Mizuno (Tokyo University of Science, Japan)
- OS1-8 **Visualization of Longitudinal Vortex Structure in the Wake of a Flat Plate Airfoil at Low Reynolds Number**
17:30-17:50 Akihiro Wakabayashi, Keiichiro Hamaguchi (Doshisha University, Japan), Takanori Uchida, Kenichiro Sugitani, Ao Takada (Kyushu University, Japan), Katsuya Hirata (Doshisha University, Japan)
- OS1-9 **Effects on the Aerodynamics of a Spinning Hollow Cylinder in Flight**
17:50-18:10 Daiki Tanaka, Tomoya Wada, Yusuke Naito (Doshisha University, Japan), Masami Nakano, Jun Ishimoto (Tohoku University, Japan), Hirochika Tanigawa (National Institute of Technology, Maizuru College, Japan), Katsuya Hirata (Doshisha University, Japan)
- OS1-10 **Flow around a Cylinder Moving near the Ground**
18:10-18:30 Kazuki Matsuno, Ryo Kobayashi, Katsuya Hirata (Doshisha University, Japan)