

## OS10: Two-Phase Thermal Control for Spacecraft

November 7, 2023

EX-4-A

- OS10-1      **Current Research and Future Prospects of Oscillating Heat Pipes (*Invited*)**  
14:50-15:30   Makiko Ando, Kousuke Tanaka, Atsushi Okamoto (Japan Aerospace Exploration Agency, Japan)
- OS10-2      **Numerical Analysis on the Heat Transport Performance of Oscillating Heat Pipe with Different Heating Section Arrangement**  
15:30-15:50   Ayumu Kawaguchi, Takeshi Yokouchi (Tohoku University, Japan), Makiko Ando (Japan Aerospace Exploration Agency, Japan), Tsubasa Ikami, Hiroki Nagai (Tohoku University, Japan)
- OS10-3      **Development of Dielectrophoretically-Enhanced Microchannel Evaporator with Diverging Electric Field**  
15:50-16:10   Masahito Nishikawara (Toyohashi University of Technology, Japan), Nathaniel J. O'Connor, Jamal. S. Yagoobi (Worcester Polytechnic Institute, USA)
- OS10-4      **Visualization Study of Hysteresis Phenomena in a Multi-evaporator Loop Heat Pipe**  
16:30-16:50   Xinyu Chang (Tohoku University, Japan), Noriyuki Watanabe (Nagoya University, Japan), Hiroki Nagai (Tohoku University, Japan), Hosei Nagano (Nagoya University, Japan)
- OS10-5      **Experimental Testing and Numerical Investigation of an Anti-Gravity LHP**  
16:50-17:10   Shawn Somers-Neal (Nagoya University, Japan), Toru Maeda, Atsuki Mitani, Ryohei Kobayashi (Sumitomo Electric Industries, Ltd., Japan), Hosei Nagano (Nagoya University, Japan)
- OS10-6      **Heat Transfer Limit Evaluation of Cryogenic Loop Heat Pipe**  
17:10-17:30   Takeshi Yokouchi, Xinyu Chang (Tohoku University, Japan), Kimihide Odagiri, Hiroyuki Ogawa (Japan Aerospace Exploration Agency, Japan), Hosei Nagano (Nagoya University, Japan), Hiroki Nagai (Tohoku University, Japan)
- OS10-7      **Visualization of Low Mass Flux Nitrogen Condensate Flow Inside a Cryogenic Loop Heat Pipe.**  
17:30-17:50   Atsuhiko Gomi (The University of Tokyo, Japan), Kimihide Odagiri, Yuki Sakamoto, Shun Okazaki (Japan Aerospace Exploration Agency, Japan), Hiroki Nagai (Tohoku University, Japan), Hiroyuki Ogawa (Japan Aerospace Exploration Agency, Japan)