

OS18: Flow measurements using PSP/TSP technique

November 12, 2025

EX-3B

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| OS18-1
9:00-9:40 | Boundary Layer Transition Measurement by Temperature-Sensitive Paint in Low-Speed Flow (<i>Invited</i>)
<u>Tsubasa Ikami</u> , Hiroki Nagai (Tohoku University, Japan) |
| OS18-2
9:40-10:00 | Study of the Micro-Scale Heat Transfer Enhancement by 3-D Acoustic Streaming Flow Using TSP
Wen-Shiuan Lee, <u>Wei-Hsin Tien</u> (National Taiwan University of Science and Technology, Taiwan) |
| OS18-3
10:00-10:20 | Temperature-Sensitive Paint Measurements and Numerical Analysis of Hybrid Thermal Management System using PCM and Microchannel Flow
Cheng-Yu Jou, <u>Jhih-Ling Lin</u> , Chih-Yung Huang, Tong-Miin Liou (National Tsing Hua University, Taiwan) |
| 10:30-10:45 | BREAK |
| OS18-4
10:45-11:05 | Application of Silica-based PSP to Unsteady Pressure Distributions on Delta Wing Surface During Wing Rock
<u>Yuma Yamagishi</u> , Masaki Okawa, Tsubasa Ikami, Hiroki Nagai (Tohoku University, Japan) |
| OS18-5
11:05-11:25 | Experimental Study in Supersonic Cavity Flow with Different External Stores
<u>Ting Tsung Chang</u> (National Chung-Shan Institute of Science and Technology, Taiwan) |
| OS18-6
11:25-11:45 | Investigation of Supersonic Micronozzles with Secondary Flow Injection at Different Locations
Yen-Ju Wu, <u>Huang-Ru Li</u> , Chih-Yung Huang (National Tsing Hua University, Taiwan) |
| OS18-7
11:45-12:05 | Basic Characteristics of Pressure-Sensitive Paint with Metal Nanoparticles
<u>Masaki Okawa</u> , Tsubasa Ikami, Tomoya Yoshihara, Kanako Watanabe, Hiroki Nagai (Tohoku University, Japan) |
| 12:15-13:30 | BREAK |
| OS18-8
13:30-13:50 | Investigation of Low-Speed Flow Characteristics Using Pressure-Sensitive Paint on a NASA TP-1803 Aircraft Model
Hong-Zhi Lin, <u>Wen-Jun Chiou</u> , Chih-Yung Huang (National Tsing Hua University, Taiwan) |
| OS18-9
13:50-14:10 | Application of Temperature-Sensitive Paint to Sub-millimeter Scale Riblet Surface
<u>Yuki Ito</u> , Tsubasa Ikami (Tohoku University, Japan), Mitsuru Kurita (Japan Aerospace Exploration Agency, Japan), Hiroki Nagai (Tohoku University, Japan) |

- OS18-10
14:10-14:30 **Analysis of Base Pressure Fluctuations on Dynamic Behavior of Re-entry Capsules**
Ryoya Hosaka, Daichi Yamashita, Masaki Okawa, Tsubasa Ikami (Tohoku University, Japan), Yasuhiro Egami (Aichi Institute of Technology, Japan), Kazuhiko Yamada (Japan Aerospace Exploration Agency, Japan), Hiroki Nagai (Tohoku University, Japan)
- OS18-11
14:30-14:50 **Flow Field Prediction Method Based on Pressure-Sensitive Paint Data**
Misato Kurosawa, Makoto Takagi, Ryuji Kokubo (Waseda University, Japan), Tsubasa Ikami (Tohoku University, Japan), Yasuhiro Egami (Aichi Institute of Technology, Japan), Hiroki Nagai (Tohoku University, Japan), Takahiro Kashikawa, Koichi Kimura, Yutaka Takita (Fujitsu Limited, Japan), Yu Matsuda (Waseda University, Japan)
- 15:00-15:15 BREAK
- OS18-12
15:15-15:35 **Numerical and Experimental Analysis of Uniform Temperature Control in Microchannel Flow**
Yu-Wei Wu, Chin-Yen Li, Chih-Yung Huang, Tong-Miin Liou (National Tsing Hua University, Taiwan)

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- OS18-13
9:00-9:20 **Temperature Sensitivity of Ru(phen) and Ru(trpy) Dye with Several Kinds of Binder Materials at Cryogenic Temperature**
Satoshi Someya, Yuki Morimoto, Toshie Koyama (Tokyo Denki University, Japan)
- OS18-14
9:20-9:40 **Investigation of Cryo-TSP Formulation for Cryogenic Flows**
Takeshi Yokouchi, Tsubasa Ikami (Tohoku University, Japan), Kimihide Odagiri, Hiroyuki Ogawa (Japan Aerospace Exploration Agency, Japan), Hiroki Nagai (Tohoku University, Japan)
- OS18-15
9:40-10:00 **Temperature-Sensitive Paint Visualization of Liquid-Film Evaporation in a Three-Phase Contact Line**
Shione Fujiwara, Tetsuya Fukunaga (Waseda University, Japan), Yusaku Abe (Tokyo University of Agriculture and Technology, Japan), Yasuhiro Egami (Aichi Institute of Technology, Japan), Osamu Kawanami (University of Hyogo, Japan), Yu Matsuda (Waseda University, Japan)
- OS18-16
10:00-10:20 **Investigation of Temperature-Sensitive Organic Dyes for Two-Color PSP**
Yasuhiro Egami, Norihiro Yoshii, Ryota Kanei, Tatsuya Yamada (Aichi Institute of Technology, Japan), Yu Matsuda (Waseda University, Japan)