

GS1: General Session

October 27, 2021

ROOM3

- GS1-1 **Measurement of Temperature and Pressure Inside a Heat Pipe Equipped with Electrowetting Technique**
11:10-11:30 Kazuya Suzuki, Motohiro Nakahata, Kippeï Yoshida, Naoki Ono (Shibaura Institute of Technology, Japan)
- GS1-2 **Effect of Evaporator Preheating on Startup Behavior of Capillary Pumped Loop**
11:30-11:50 Masaru Hirata (The University of Tokyo, Japan), Kimihide Odagiri, Hiroyuki Ogawa (Japan Aerospace Exploration Agency, Japan)
- GS1-3 **A Study on Cooling of Heat Generated by Applying Electromagnetic Pressure in a Manufacturing Process of Metal Thin Plate**
11:50-12:10 Tomokazu Ideguchi, Takanori Machida, Yuki Ito, Ryosuke Yonekura, Naoki Ono (Shibaura Institute of Technology, Japan)
- GS1-4 **A Potential of Temperature Distribution Control using Near-infrared Laser Irradiation and Gold Nanorods**
12:10-12:30 Akiyoshi Obonai, Yuki Kanda, Atsuki Komiya (Tohoku University, Japan)
- GS1-5 **Investigation of Evaporation Behavior and Estimation of Drying Rate in Drying Process for Producing Coating Material**
13:30-13:50 Takahiro Ono, Yutaro Asanuma (Shibaura Institute of Technology, Japan), Keisuke Sato (Mitsui Chemicals Tohcello, Inc., Japan), Naoki Ono (Shibaura Institute of Technology, Japan)
- GS1-6 **Temperature-sensitive Paint Measurements On Microchannel Flow With Side Wall Heating**
13:50-14:10 Po-Ju Tsai, Yu-Chia Fan, Tong-Miin Liou, Chih-Yung Huang (National Tsing Hua University, Taiwan)
- GS1-7 **Numerical Analysis of Two-Phase Mechanically Pumped Fluid Loop for Thermal Control of Electric Aircraft Motors**
14:10-14:30 Xinyu Chang, Koji Fujita, Hiroki Nagai (Tohoku University, Japan)
- GS1-9 **Influence of Pitching Amplitude and Phase Difference between Periodic Flow and Pitching Wing on Thrust and Lift Coefficients**
15:20-15:40 Yoshitaka Isoda, Yohsuke Tanaka, Shigeru Murata (Kyoto Institute of Technology, Japan)
- GS1-10 **Influence of Phase Difference between Periodic Flow and Oscillating Wing on Maneuverability of a Robotic Fish**
15:40-16:00 Maoto Kawano, Yohsuke Tanaka, Shigeru Murata (Kyoto Institute of Technology, Japan)

GS1-12 **Suppression of Artificial Viscosity Induced Post-Shock Oscillations in High-Order Spectral Difference Methods**
16:00-16:20 Guido Lodato, Luc Vervisch (Normandie Université, CNRS, INSA et Université de Rouen, France), Jean-Baptiste Chapelier (ONERA Aerospace Laboratory, France)

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GS1-13 **High-Speed Schlieren Visualization of Two Jets Flapping in Anti-Phase at High Frequency**
11:10-11:30 Tsuyoshi Shoji, Taro Handa (Toyota Technological Institute, Japan)

GS1-14 **Experimental Study on Pressure-Ratio Dependence of High-Frequency Flapping Jets**
11:30-11:50 Satoshi Yuura, Taro Handa (Toyota Technological Institute, Japan)

GS1-15 **Suppression of Thermoacoustic Oscillations in a Sondhauss Tube Using Genetic Programming**
11:50-12:10 Bo Yin, Yu Guan, Stephane Redonnet (The Hong Kong University of Science and Technology, Hong Kong, China), Vikrant Gupta (Southern University of Science and Technology, China), Larry K. B. Li (The Hong Kong University of Science and Technology, Hong Kong, China)

GS1-16 **Ruelle-Takens-Newhouse Route to Chaos in a Forced Low-density Jet**
12:10-12:30 Zhijian Yang, Yu Guan, Stephane Redonnet (The Hong Kong University of Science and Technology, Hong Kong, China), Yuanhang Zhu (Brown University, USA), Vikrant Gupta (Southern University of Science and Technology, China), Larry K. B. Li (The Hong Kong University of Science and Technology, Hong Kong, China)

GS1-17 **Experimental Study on the Characteristics of FLEET Emission in Air**
13:30-13:50 Wakako Yamaguchi, Toshiya Yanase, Jun Ishihara, Asuka Nakatani, Taro Handa (Toyota Technological Institute, Japan), Yosuke Sugioka, Shunsuke Koike (Japan Aerospace Exploration Agency, Japan)

GS1-18 **Behavior and Aerodynamic Characteristics of Self-Oscillating Elastic Flat Plate in the Flow**
13:50-14:10 Takahiro Kagawa, Akira Urita, Taro Handa (Toyota Technological Institute, Japan)

GS1-19 **Flow Field and Drag Coefficient Analysis of The Feather Shuttlecock's Permutation**
14:10-14:30 Wei-Chieh Chen, Min-Kai Wu, Shao-Wei Chen, Chih-Yung Huang (National Tsing Hua University, Taiwan)

GS1-20 **Sample Tests of PSP/TSP Using Machinable Ceramics and Prepolymer**
14:30-14:50 Shinya Matsubara, Nobuyoshi Fujimatsu (Toyo University, Japan)

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- GS1-22 **Assessment of Linearized Shock-cell Models for Axisymmetric Underexpanded jets by Rainbow Schlieren Deflectometry**
9:20-9:40 Muhammad Minarul Islam (The University of Kitakyushu, Japan / Bangabandhu Sheikh Mujibur Rahman Science and Technology University, Bangladesh), Ryota Fukunaga, Shinichiro Nakao, Yoshiaki Miyazato (The University of Kitakyushu, Japan)
- GS1-23 **Investigation of Unstable Disturbances in a Hypersonic Boundary Layer around Elliptic cone by Global Stability Analysis**
9:40-10:00 Soma Aokage, Yousuke Ogino (Kochi University of Technology, Japan)
- GS1-24 **Numerical Investigation on Water Entry of Simple Geometry Using a CIP Method**
10:00-10:20 Yawara Sugiura, Nobuyoshi Fujimatsu (Toyo University, Japan)
- GS1-25 **Unsteady Flows through Three-Stage Stator-Rotor Blade Rows in Intermediate-Pressure Steam Turbine with Various Blade Shapes**
11:10-11:30 Hironori Miyazawa, Shohei Funahazama, Takashi Furusawa, Satoru Yamamoto (Tohoku University, Japan)
- GS1-26 **Collective Behavior in a Network of Four Ring-coupled Turbulent Combustors**
11:30-11:50 Yu Guan (The Hong Kong University of Science and Technology, Hong Kong, China), Kihun Moon, Kyu Tae Kim (Korea Advanced Institute of Science and Technology, Korea), Larry K. B. Li (The Hong Kong University of Science and Technology, Hong Kong, China)