

OS6: New Dimensions of Magnetic Suspension and Balance System

October 29, 2021

ROOM1

- OS6-1 **Further Development of an Electromagnetic Position Sensor with Digital Processing** (*Invited*)
8:00-8:20 Colin P. Britcher, Michelle E. Weinmann (Old Dominion University, USA)
- OS6-2 **Position Sensing Method for Rotating Sphere in 1-m Magnetic Suspension and Balance System**
8:20-8:40 Hiroyuki Okuizumi, Hideo Sawada, Yasufumi Konishi, Shigeru Obayashi, Keisuke Asai (Tohoku University, Japan)
- OS6-3 **Blunt Body Pitch Damping Measurements from Multiple Subsonic Free-to-Pitch Magnetic Suspension Trials**
8:40-9:00 Mark Schoenenberger, David Cox (NASA Langley Research Center, USA), Colin Britcher (Old Dominion University, USA)
- OS6-4 **Effect of Angle of Attack on Freestream-Aligned Circular Cylinder with Fineness Ratio of 1.0 - Update of Experimental Research in 0.3-m MSBS**
9:20-9:38 Sho Yokota, Taku Nonomura, Keisuke Asai (Tohoku University, Japan)
- OS6-5 **Magnetic Levitation of Reentry Capsule Towards Wind Tunnel Testing**
9:38-9:56 Chiharu Inomata, Sho Yokota, Taku Nonomura, Keisuke Asai (Tohoku University, Japan)
- OS6-6 **CFD-based Feasibility Study of Pressure Reconstruction from PIV in MSBS**
9:56-10:14 Tsubasa Nambu, Syunsuke Igarashi, Yuta Ozawa, Taku Nonomura, Keisuke Asai (Tohoku University, Japan)
- OS6-7 **Measurements of Aerodynamic Characteristics of Square-Cylinder Models with Low Fineness Ratio Using 1.0-m Magnetic Suspension and Balance System**
10:14-10:32 Rintaro Makino, Yuki Wajima, Masatoshi Horiguchi, Hiroyuki Okuizumi, Keisuke Asai, Shigeru Obayashi (Tohoku University, Japan)
- OS6-8 **Aerodynamic Characteristics of the Slanted Cylinder Afterbody Investigated in 0.3-m Magnetic Suspension and Balance System**
10:32-10:50 Kodai Tashiro, Sho Yokota (Tohoku University, Japan), Fernando Zigunov (FAMU-FSU College of Engineering, USA), Yuta Ozawa, Taku Nonomura, Keisuke Asai (Tohoku University, Japan)