OS6: New Dimensions of Magnetic Suspension and Balance System

November 6, 2019
EX-3

OS6-1
14:00-15:00
Demonstration of a Magnetic Suspension and Balance System with Transverse Magnetization *(Invited)*
Colin P. Britcher (Old Dominion University, USA), Mark Schoenenberger, David Cox (NASA Langley Research Center, USA)

OS6-2
15:00-15:20
Dynamic Characteristics of Freestream-Aligned Circular Cylinder with Fineness Ratio of 0.75 under Small-Amplitude Forced Oscillation in 1-m MSBS
Kento Shinji, Hiroyuki Okuizumi, Yasufumi Konishi, Taku Nonomura, Hideo Sawada, Keisuke Asai (Tohoku University, Japan)

OS6-3
15:40-16:00
A Force Evaluation Test of 5-Axis Controlled Model at High Angles of Attack in 1-m Magnetic Suspension and Balance System
Kasumi Sasaki, Yasuhumi Konishi, Hiroyuki Okuizumi, Shigeru Obayashi (Tohoku University, Japan)

OS6-4
16:00-16:20
Improvement of Sensor Subsystem for Rectangular Parallelepiped Model in 1-m Magnetic Suspended and Balance System
Masatoshi Horiguchi, Masahide Kuwata, Taku Nonomura, Keisuke Asai, Yasufumi Konishi, Hiroyuki Okuizumi, Shigeru Obayashi (Tohoku University, Japan)

OS6-5
16:20-16:40
Effect of Angle of Attack of up to 15 Degree on Aerodynamic Force on a Freestream-aligned Circular Cylinder of Aspect Ratio 1.0 in 0.3-m Magnetic Suspension and Balance System
Mehedi Hassan, Sho Yokota, Taku Nonomura, Keisuke Asai (Tohoku University, Japan)

OS6-6
16:40-17:00
Investigation of Characteristic Flow Structure around Circular Cylinders with Fineness Ratio 0.5 – 2.25 in 0.3-m MSBS
Sho Yokota, Taku Nonomura, Keisuke Asai (Tohoku University, Japan)

OS6-7
17:20-17:50
Flow Dynamics of Low Fineness Ratio Circular Cylinders Evaluated by IFS 0.1-m MSBS and Large-Eddy Simulation
Masahide Kuwata, Aiko Yakeno, Yoshiaki Abe, Shigeru Obayashi (Tohoku University, Japan)