

OS6: Free Flight Experiment with MSBS and Ballistic Range

November 11, 2022

EX-3-B

- OS6-1 **An Investigation of Bluff Body Blockage Corrections Using the NASA/ODU 6-inch MSBS** *(Invited)*
9:00-9:30 Colin P. Britcher, Brendan McGovern (Old Dominion University, USA), David E. Cox, Mark Schoenenberger (NASA Langley Research Center, USA)
- OS6-2 **Evaluation of Reentry Capsule Magnetic Levitation Towards Wind Tunnel Testing**
9:30-9:50 Chiharu Inomata, Sho Yokota, Taku Nonomura (Tohoku University, Japan)
- OS6-3 **Flow Field and Aerodynamic Characteristics of Next-generation Re-entry Capsules of Different Shapes at Transonic Free Flight**
9:50-10:10 Yukiya Takikawa, Yota Hosono, Kouichi Takahashi, Toshihiro Ogawa, Hiroki Nagai (Tohoku University, Japan), Kazuhiko Yamada (Japan Aerospace Exploration Agency, Japan)
- OS6-4 **Effect of Reynolds Number on Critical Geometry of Magnetically Supported Cylinder Body**
10:10-10:30 Kintaro Fuchigami, Hiroyuki Okuizumi, Sho Yokota, Shigeru Obayashi, Taku Nonomura (Tohoku University, Japan)
- OS6-5 **Time-Resolved Stereo PIV Measurement with 0.3-m MSBS toward Analysis of Three-Dimensional Wake Structure behind Freestream-Aligned Circular Cylinder**
10:40-11:00 Sho Yokota, Taku Nonomura (Tohoku University, Japan)
- OS6-6 **Measurement of Aerodynamic Forces Acting on a Vibrating Javelin**
11:00-11:20 Ryuichi Ishiai, Kazuya Seo (Kougakuin University, Japan), Daiya Tsudou, Ryuya Sakaue (Yamagata University, Japan), Hiroyuki Okuizumi, Yasufumi Konishi, Shigeru Obayashi (Tohoku University, Japan), Shinichiro Ito, Masaki Hiratsuka (Kougakuin University, Japan)