OS6: Free Flight Experiment with MSBS and Ballistic Range

November 11, 2025 EX-3B

OS6-1 9:00-9:30	Studies of Tumbling Bluff Bodies at Low Speeds (Invited) Colin P. Britcher, Caleb Hull (Old Dominion University, USA), Mark Schoenenberger (NASA Langley Research Center, USA), Hisham Shehata (Analytical Mechanics Associates, USA)
OS6-2 9:30-9:50	Free-motion Wind Tunnel Testing of Lifting Capsules with Different Inertia Moments Naoki Kurosawa, Kazuyuki Ueno, Yuki Takeda, Keisuke Asai (Iwate University, Japan), Mamoru Kikuchi (Iwate Prefectural University Miyako Junior College, Japan), Hiroki Nagai, Tsubasa Ikami, Yoshihito Sasaki (Tohoku University, Japan)
OS6-3 9:50-10:10	Dynamic Stability of a Family of Earth Entry Vehicles using the Magnetic Suspension Dynamics Tunnel Caleb Hull, Colin Britcher (Old Dominion University, USA), Hisham Shehata (Analytical Mechanics Associates, Inc., USA), Mark Schoenenberger (NASA Langley Research Center, USA)
OS6-4 10:10-10:30	Investigation of Dynamic Instability for Hayabusa-type Reentry Capsule Using 1-m Magnetic Suspension and Balance System <u>Yoshihito Sasaki</u> , Hiroyuki Okuizumi, Tsubasa Ikami, Hiroki Nagai (Tohoku University, Japan)
10:30-10:45	BREAK
OS6-5 10:45-11:05	Experimental Investigation of Afterbody Geometry Effects on Dynamic Instability of Atmospheric Entry Capsule in Transonic Regime Jinyoung Kim (Seoul National University, Republic of Korea), Mithat Can Engin (Technical University of Berlin, Germany), Bok Jik Lee (Seoul National University, Republic of Korea), Hiroki Nagai (Tohoku University, Japan)
OS6-6 11:05-11:25	Comparison of Dynamic Stability of New Re-entry Capsule in Low Altitude Free-Flight Test at Different Flight Processes Hiroyasu Yoshimoto, Tsubasa Ikami, Koichi Takahashi (Tohoku University, Japan), Hiroki Takayanagi, Kazuhiko Yamada (Japan Aerospace Exploration Agency, Japan), Hiroki Nagai (Tohoku University, Japan)