## OS24: Dynamics of Flow of Matter in Moving Contacts

## November 10, 2025 EX-4B

OS24-1 13:30-14:10	Evaluation of Friction between Intravascular Device and Biomodel (Invited)  Kazuto Takashima (Kyushu Institute of Technology, Japan), Makoto Ohta (Tohoku University, Japan), Kiyoshi Yoshinaka, Toshikatsu Washio, Kiyoyuki Chinzei (National Institute of Advanced Industrial Science and Technology, Japan)
OS24-2 14:10-14:30	Investigation of Superlubricity Mechanisms of Double Network Hydrogels under Lactic Acid Environments for Biological Surface Applications  Motoyuki Murashima, Jules Tricot, Teita Tada, Koshi Adachi (Tohoku University, Japan)
OS24-3 14:30-14:50	Wear of Solid Lubricants Under Different Tribological Conditions <u>Vincent Fridrici</u> (Ecole Centrale de Lyon, France)
15:00-15:15	BREAK
OS24-4 15:15-15:35	Necessary Conditions for Continuous Super-low Friction in Tribological Systems with Hydrogenated Carbon Coatings under Dry Conditions <a href="Maintenancements">Kazuya Kuriyagawa</a> , Koshi Adachi (Tohoku University, Japan)
OS24-5 15:35-15:55	Anodization for Self-Formation of Low-Friction Interface in a Tribosystem Using Aluminum Alloy in Engine Oil Boundary Lubrication  Théo Yamana, Shota Inoue, Motoyuki Murashima, Koshi Adachi (Tohoku University, Japan)
OS24-6 15:55-16:15	Simulations for Flow of Molecules Through Carbon Nanotubes <a href="Sheng-Feng Huang">Sheng-Feng Huang</a> , Takashi Tokumasu (Tohoku University, Japan)
OS24-7 16:15-16:35	Gallate Spinels For Micro Energy Harvesting Systems  Musa Mutlu Can (Istanbul University, Turkey), Jingjun Liu (Key Laboratory of Electrochemical Process and Technology for Materials, China), Satoru Kaneko (Kanagawa Institute of Industrial Science and Technology (KISTEC) / Institute of Science Tokyo, Japan), Takashi Tokumasu (Tohoku University, Japan)
16:45-17:00	BREAK
OS24-8 17:00-17:20	Molecular Insights into the Adsorption Behavior of PFAS on Montmorillonite, Polyethylene, and Polypropylene: A Molecular Dynamics Study Qiao Wang, Rui Xu, Fusheng Zha, Long Xu, Bo Kang, Heming Han (Hefei University of Technology, China)
OS24-9 17:20-17:40	Friction Control of Tread Rubber under Lubrication by Controlling Fluid Flow at the Contact Interface  Arata Ishizako, Aoi Nishimoto, Toshiaki Nishi, Takeshi Yamaguchi (Tohoku University, Japan)