

**The 20th International Conference on Flow Dynamics**  
**Best Presentation Award for Young Researcher**  
**List of Awardees**

We are pleased to announce that the following presenters were awarded the 20<sup>th</sup> International Conference on Flow Dynamics Best Presentation Award for Young Researcher. Congratulations!

Co-chairs of the ICFD2023  
Takashi Tokumasu, Professor  
Jeongmin Ahn, Professor

GS1-12: "Numerical Investigation of Droplet Collision Using the Lattice-Boltzmann Model"

**Juan Restrepo-Cano**, Francisco E. Hernández-Pérez, Hong G. Im (King Abdullah University of Science and Technology (KAUST), Saudi Arabia)

GS1-24: "Visualization Study on the Ultrasonic-Driven Rectangular Synthetic Jet"

**Hikari Furukawa**, Kiiro Adachi, Katsushi Furutani, Taro Handa (Toyota Technological Institute, Japan)

OS2-4: "Short-Lived Intermediates Detection in Trimethyl Phosphate Pyrolysis using Vacuum Ultraviolet Synchrotron Radiation"

**Keisuke Kanayama** (Tohoku University, Japan / Paul Scherrer Institute, Switzerland), Hisashi Nakamura, Kaoru Maruta (Tohoku University, Japan), Andras Bodi, Patrick Hemberger (Paul Scherrer Institute, Switzerland)

OS2-10: "Study on the Ignition-to-Flame Propagation Transition of Spherically Propagating Flame Initiated by Spark Discharge and Low-Temperature Heat Source"

**Takashi Kakizawa**, Keisuke Akita, Takuya Tezuka, Youhi Morii, Hisashi Nakamura, Kaoru Maruta (Tohoku University, Japan)

OS2-22: "Global Multiscale Sampling (GMS) Method Empowering Deep Neural Networks To Solve High-dimensional Stiff ODEs In Combustion Simulation"

Zhi-Qin John Xu, Junjie Yao, Yuxiao Yi (Shanghai Jiao Tong University, China), **Tianhan Zhang** (Southern University of Science and Technology, China)

OS4-2: "Combustion of Metallized Fuels for Hybrid Rocket Applications"

**James C. Thomas** (Texas A&M University, USA)

OS5-18: "Chirality-Activated Vortex Flow and Its Reversal Mode in Liquid Crystals"

**Shunsuke Takano**, Takuya Nakanishi, Kenta Nakagawa, Toru Asahi (Waseda University, Japan)

OS6-2: "Analysis of Unsteady Wake Structure behind Magnetically Levitated Circular Cylinder with Pitch Angles in 0.3-m MSBS"

**Sho Yokota**, Takayuki Nagata, Yoshinori Oka, Miku Kasai, Taku Nonomura (Tohoku University, Japan)

OS7-10: "Simulation Framework for Wake-Induced Aeroelastic Phenomena"

**Keisuke Otsuka**, Tomoki Yamazaki, Yoshiaki Abe (Tohoku University, Japan), Takanori Haga (Japan Aerospace Exploration Agency, Japan)

OS9-1: "Developing Nanofibrous Coatings For Cardiovascular Stent Wires"

**Constantinos Voniatis**, Angela Jedlovszky-Hajdu (Semmelweis University, Hungary)

OS9-3: "The Effect of Oscillatory Shear Index (OSI) on Endothelial Cell Behavior Observed in a Flow Chamber"

**Hanif Saifurrahman**, Zi Wang, Hitomi Anzai, Makoto Ohta (Tohoku University, Japan)

OS11-3: "Effective Viscosity Estimation Using Resultant Wave of Wall Shear Stress Distribution in Plane Poiseuille Suspension Flow"

**Misa Kawaguchi** (Tokyo University of Agriculture and Technology, Japan), Tomohiro Fukui (Kyoto Institute of Technology, Japan), Kenichi Funamoto (Tohoku University, Japan)

OS14-3: "Accuracy Considerations Concerning 3D Printed Fracture Models"

**Michael Kröhn** (GRS gGmbH, Germany), Anna Suzuki (Tohoku University, Japan)

OS16-15: "A Monte Carlo Approach to the N-vortex Problem on the Unit Sphere"

**Kota Takeda** (Kyoto University / RIKEN Center for Computational Science, Japan), Takashi Sakajo (Kyoto University, Japan)

OS17-7: "Evaluation of Organic Solvent Diffusion in Pressurized CO<sub>2</sub> Gas Utilizing Dynamic Pendant Drop Volume Analysis"

**Ryuhi Mukai**, Yuki Kanda (Tohoku University, Japan), Yingxue Hu (Xi'an Jiaotong University, China), Lin Chen (Chinese Academy of Sciences / University of Chinese Academy of Sciences, China), Atsuki Komiya (Tohoku University, Japan)

OS18-10: "Visualization of Leading Edge Vortex in Low Reynolds Number Rotor by cntTSP"

**Ren Nishimura**, Tsubasa Ikami, Hiroki Nagai (Tohoku University, Japan)