OS15: Turbulence: from Fundamentals to Applications

November 11, 2022 EX-4-B	
OS15-1 9:30-9:50	Searching for a Wall Model in LES using a Data-Driven Approach Golsa Tabe Jamaat, Yuji Hattori (Tohoku University, Japan)
OS15-2 9:50-10:10	On the Explicit Structure of the Spectrum of Internal Vibrations for Stratified Rotating Flows Andrei Giniatoulline (Los Andes University, Colombia)
OS15-3 10:10-10:30	Effect of Large Scale Motions on Taylor's Hypothesis and Attached Eddy Model Yoshiyuki Tsuji, Koki Mizuno (Nagoya University, Japan), Yoshinobu Yamamoto (University of Yamanashi, Japan)
OS15-4 10:40-11:00	Turbulence Statistics of Logarithmic Region in Pipe Flow at High Reynolds Number Noriyuki Furuichi (National Institute of Advanced Industrial Science and Technology, Japan), Marie Ono (National Institute of Advanced Industrial Science and Technology / Nagoya University, Japan), Yoshiyuki Tsuji (Nagoya University, Japan)
OS15-5 11:00-11:20	The Characteristics of Elongated Large-Scale Structures in a Wall-Confined Shear Layer <u>Takumi Akao</u> , Tomoaki Watanabe, Koji Nagata (Nagoya University, Japan)
OS15-6 11:20-11:40	Extraction of Boundary Layer Transition Process Using Controlled Free Stream Disturbance and Ensemble Averaging Asahi Yoshida, Takeo Anada, Ryo Takai, Koki Matsui, Kentaro Kato, Masaharu Matsubara (Shinshu University, Japan)
OS15-7 11:40-12:00	Nozzle-geometry Dependence of Diffusion Characteristics in Lobed Jets Ren Fukui, Mamoru Takahashi, Koichi Tsujimoto, Toshitake Ando, Toshihiko Shakouchi (Mie University, Japan)
OS15-8 13:20-14:00	Physical Insights on Turbulence from Numerical Simulation of Dissipative Weak Solution to the Euler Equations (Invited) <u>Takeshi Matsumoto</u> (Kyoto University, Japan)
OS15-9 14:00-14:20	Global- and Local-Analysis of Velocity Field in Grid Turbulence Yulin Zheng, Tomoaki Watanabe, Koji Nagata (Nagoya University, Japan)
OS15-10 14:20-14:40	Laminarization in Subcritical Taylor-Couette-Poiseuille Flow with Increasing Pressure Gradient Vuki Matsukawa Takahira Tsukahara (Tokyo University of Science Japan)

OS15-11 14:50-15:10	Application of a High Order LES Turbulence Model on Investigating the Effect of Vortex Generators on Film Cooling Effectiveness Debasish Biswas, Tomohiko Jimbo (Toshiba Research and Development Center, Japan)
OS15-12 15:10-15:30	Atmospheric Surface Layer Flows over a Dense City Lan Yao , Chun-Ho Liu (The University of Hong Kong, Hong Kong, China)
OS15-13 15:30-15:50	Morphological Effect on the Wake Flows after a Single Fractal Tree using Large-Eddy Simulation Shiyun Liu, Chun-Ho Liu (The University of Hong Kong, Hong Kong, China)
OS15-14 15:50-16:10	Amplitude Modulation of Velocity Fluctuations based on Atmospheric Flows over Real Urban Morphology Yixun Liu, Chun-Ho Liu (The University of Hong Kong, Hong Kong, China)
OS15-15 16:30-16:50	Analysis Of Lagrangian Droplet Dynamics Using Computational Singular Perturbation Lorenzo Angelill (King Abdullah University of Science and Technology, Saudi Arabia), Pietro Paolo Ciottoli (Sapienza University, Italy), Francisco E. Hernández-Pérez (King Abdullah University of Science and Technology, Saudi Arabia), Mauro Valorani (Sapienza University, Italy), Hong G. Im (King Abdullah University of Science and Technology, Saudi Arabia)
OS15-16 16:50-17:10	Heat Transfer Performance of Punched Holes on Fin Surface for the Flat Tube Bank Heat Exchanger Hayati Kadir Pazarlıoğlu (Aselsan Inc., Turkey), Ahmet Ümit Tepe (Tarsus University, Turkey), Kamil Arslan (Karabük University, Turkey)
OS15-17 17:10-17:30	Optimization of Influencing Parameters on Thermal Efficiency of Solar Air Heater with Elongated Impinging Jets and Dimpled Fin Ezgi Çalar, <u>Kamil Arslan</u> (Karabük University, Turkey), Hayati Kadir Pazarlıoğlu (Aselsan Inc., Turkey), Ahmet Ümit Tepe (Sinop University, Turkey)