

OS14: Turbulence: from Fundamentals to Applications

EX-2

November 8, 2018

9:00-9:20 OS14-1

Turbulent Thermal Transport Over Sinusoidal Textured Superhydrophobic Surfaces

P.A. Fuaad, K. Arul Prakash

9:20-9:40 OS14-2

An Experimental Investigation on Film Cooling Performance

X. Tan, Y. Shan, X. Zhu

9:40-10:00 OS14-3

Very-Large Eddy Simulation of Convective Heat Transfer

X. Han, Z. Xia, J. Mao, Z. He

10:00-10:20 OS14-4

Influence and Improvement of Inlet Shape of Sirocco Fan

J. Lee, J. Lee, J.-G. Bak, H. Lee, J. Cho

10:40-11:20 OS14-5

Invited

The Large-Scale Anisotropic Structure of Small-Scale Turbulence

G. E. Elsinga, T. Ishihara, M.V. Goudar, C.B. da Silva, J.C.R. Hunt

11:20-11:40 OS14-6

Hierarchy of Vortices in Wall-bounded Turbulence

Y. Motoori, S. Goto

11:40-12:00 OS14-7

Three-dimensional Global Stability and Coherent Structure of Turbulent Shear Flow

A. Yakeno

13:10-13:50 OS14-8

Invited

Discussion on High-Reynolds Number Limit in a Fully-Developed Channel Flow

Y. Yamamoto, Y. Tsuji

13:50-14:30 OS14-9

Invited

Wall Modeling in Large-Eddy Simulation: A Path to Predicting High Reynolds Number Flows

S. Kawai

14:50-15:10 OS14-10

Entrainment and Diffusion Mechanism in a Round Jet Modified by Vortex Generators

Y. Ito, K. Naganawa, Y. Sakai, K. Iwano

15:10-15:30 OS14-11

Influence of Compressibility on Turbulent/non-turbulent Interface in Supersonic Planar Jet

R. Nagata, T. Watanabe, K. Nagata

15:30-15:50 OS14-12

Influence of Swirl on Coaxial Jets

P. Kadu, Y. Sakai, Y. Ito, K. Iwano, M. Sugino, T. Katagiri, T. Hayase

15:50-16:10 OS14-13

A Correction Method Based on Probability Density Function and Measurement Volume for Turbulence Intensity Profile Measured by LDV in Turbulent Pipe Flow

Y. Wada, N. Furuichi, E. Kusano, Y. Tsuji

16:30-16:50 OS14-14

Enhancing Jet Turbulence and Acoustics via a Coupled LES -Stochastic Model

J. Blake, A. Sescu, D. Thompson, Y. Hattori

16:50-17:10 OS14-15

Vortex Structure and Aerodynamic Sound behind the Self-excited Vibrating Slit Flow

S. Kosako, T. Tsuneyoshi, T. Ito, Y. Tsuji

17:10-17:30 OS14-16

Relationships between Small-Scale Motions and Inertial Particle Clustering in Turbulence: Comparison between Incompressible and Compressible Turbulence

Y. Sakurai, T. Ishihara

17:30-17:50 OS14-17

Turbulence Closure Theory based on the Double-Lagrangian Formalism

T. Ariki

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November 9, 2018

9:00-9:20 OS14-18

Studies on Unsteady Turbulence Characteristics During Flow Transition Under Simulated Low Pressure Turbine Conditions Based on High-order LES Model

D. Biswas

9:20-9:40 OS14-19

On Secondary Instability of Coherent Structure Artificially Excited in Two Dimensional Turbulent Channel Flow

J. Takahashi, T. Mizuno, M. Matsubara

9:40-10:00 OS14-20

Numerical Investigations into Diurnal Wind Characteristics

Y. Song, L. Tian, N. Zhao

10:00-10:20 OS14-21

Aerodynamic Effects of Offset between S-Duct Inlet and Flat Plate

J. Lee, S. Baeg, J. Cho

10:40-11:10 OS14-22

Invited

Control Forced Concurrent Precursor Method Applied to the LES of Turbulent Boundary Layers

J.S. Haywood, A. Sescu

11:10-11:30 OS14-23

Large-eddy Simulation of Turbulent Hydrogen Flame in a Vitiated Co-flow

Y. Hu, R. Kurose

11:30-11:50 OS14-24

Direct Numerical Simulation of Compressible Turbulence with Reactions and Rapid Temperature Growth

R. Kuno, T. Ishihara