## 61st Workshop on "Investigation and Control of Transition to Turbulence"

Venue: Rm#802, Bld#East-4, the University of Electro-Communications (UEC), Chofu, Tokyo, Japan

- September 20 (Wed.), 2017
- Chairperson: Masaharu Matsubara (Shinshu University)
- 15:00-15:40 Reynolds stress transport by inter-scale interaction in turbulent rotating plane Couette flow
- Takuya Kawata (Tokyo University of Science), Henrik Alfredsson (KTH)
- 15:40-16:20 Decay of grid-generated turbulence and effects of weak fluid acceleration
- Hiroki Suzuki, Shinsuke Mochizuki (Yamaguchi University)
  Transitional structures of a compressible square cylinder wake subjected to free-stream 16:20-17:00 disturbance
- •Yohei Inoue, Yuma Tasai, Tsuyoshi Kanuma, Hiroshi Maekawa (UEC)

17:00-17:30 Laboratory Tour

- September 21 (Thu.), 2017
- Chairperson: Ayumu Inasawa (Tokyo Metropolitan University, TMU)
- 9:30-10:20 Advanced fluid research on drag reduction in turbulence experiments(AFRODITE)
- Invited Speaker: oJens H.M. Fransson (Royal Institute of Technology, KTH)
- 10:20-11:00 Relaminarization of turbulent Poiseuille flow by buoyancy force
- Koji Fukudome, Yoshifumi Ogami (Ritsumeikan University)
- 11:00-11:40 Robustness and universality of turbulent stripe
  - oTakahiro Tsukahara (Tokyo University of Science)
    - <Lunch>
- Chairperson: Masahito Asai (Tokyo Metropolitan University)
- 13:20-14:10 Diagnosis of well-behaved turbulent boundary layers
- Invited Speaker: ORamis Örlü (Royal Institute of Technology, KTH)
- 14:10-14:50 Wall pressure fluctuation in high-Re-number channel flow
  - oAli Mehrz (Nagoya University), Yoshinobu Yamamoto (Yamanashi University),
  - Yoshiyuki Tsuji (Nagoya University)
- 14:50-15:30 Oscillatory instability of double layers of immiscible fluids in a rectangular cavity heated from below
  - oJiro Mizushima (Doshisha University)
- <Break>
- Chairperson: Hiroshi Maekawa (University of Electro-Communications)
- A Closer Look at the Process Whereby Wall Turbulence Develops Log-Law Overlap Layer 16:00-16:50 Invited Speaker: OMichio Nishioka (Prof. Emeritus, Osaka Prefecture University)
- Effect of uniform blowing/suction in spatially developing turbulent boundary layers 16:50-17:30
- Yukinori Kametani (Univ. of Tokyo), Koji Fukagata (Keio Univ.), Ramis Örlü, Philipp Schlatter (KTH)
- 17:30-18:10 New scenario of turbulence theory and streak structure of wall turbulence
  - Tsutomu Kambe (Former Professor, University of Tokyo) <18:30- Party at University Center, UEC >

September 22 (Fri.), 2017

- Chairperson: Masaharu Matsubara (Shinshu University)
- 9:30-10:20 Theoretical and data-enabled predictions of boundary-layer transition
- Invited Speaker: OTamer Zaki (Johns Hopkins University)
- Experiments on the stability of flow in a channel with riblets 10:20-11:00
- Ho Quang Huy, Masahito Asai (Tokyo Metropolitan University)
- 11:00-11:40 Inertia-induced transitions in Rayleigh-Benard convection confined by a horizontal magnetic field
  - •Yuji Tasaka, Takatoshi Yanagisawa, Megumi Akashi (Hokkaido University),
    - Tobias Vogt, Sven Eckert (HZDR)

<Lunch>

- Chairperson: Yohei Inoue (University of Electro-Communications)
- 13:20-14:10 On the understanding of structured convection
- Invited Speaker: OMohammad Zakir Hossain (University of Western Ontario)
- 14:10-14:40 Research experiences in Stanford university
- Tsuyoshi Kanuma (UEC)
- 14:40-15:10 Internship experiences in University of Science and Technology Beijing Hiroharu Matsubara (UEC)
- 15:10- Closing remarks (Hiroshi Maekawa, University of Electro-Communications)

September 23 (Sat.), 2017

Laboratory Tour (UEC/TMU)

Organizers: Yohei Inoue, Hiroshi Maekawa, Ayumu Inasawa, Yuji Tasaka, Nobumasa Sekishita, Masaharu Matsubara

**100th Anniversary Commemorative Event in UEC/** 30th Anniversary Commemorative of the Workshop on "Investigation and Control of Transition to Turbulence"