

OS3: Transdisciplinary Fluid Integration

Fuji A

November 8, 2006

- | | |
|----------------------|--|
| 9:00-9:10 | OS-3 Opening Address
<u>Toshiyuki Hayase</u> (Tohoku University, Japan) |
| OS3-1
9:10-9:30 | Aeronautical Design and Aviation Safety in Integrated Fluid Informatics
<u>Shigeru Obayashi</u> and Shinkyu Jeong (Tohoku University, Japan) |
| OS3-2
9:30-9:50 | Reality Coupled Computation of Complex Multiphase Flow
<u>Jun Ishimoto</u> (Tohoku University, Japan) |
| OS3-3
9:50-10:10 | Collaborative Visualization Design R&Ds in Integrated Visual Informatics
<u>Issei Fujishiro</u> and Yuriko Takeshima (Tohoku University, Japan) |
| 10:10-10:20 | Break |
| OS3-4
10:20-10:40 | Measurement of Boundary-Layer Transition by Towing Wind Tunnel
Shuya Yoshioka, <u>Yasuaki Kohama</u> , Takuma Kato, Fukuo Ohta, Masahiro Tokuyama and Satoshi Kikuchi (Tohoku University, Japan) |
| OS3-5
10:40-11:00 | Integration of Measurement and Simulation in Complex Blood Flow Researches in Super-Real-Time Medical Engineering Laboratory
<u>Toshiyuki Hayase</u> (Tohoku University, Japan) |
| OS3-6
11:00-11:20 | Ultimate Top-down Etching Processes for Future Nano-scale Devices
<u>Seiji Samukawa</u> (Tohoku University, Japan) |
| 11:20-13:30 | Lunch |

- OS3-7 **Multi-Disciplinary Optimisation, a New Challenge to CFD?**
13:30-14:30 Karkenahalli Srinivas (University of Sydney, Australia)
(Invited)
- OS3-8 **The Buckling Tendency of Jets and Wakes**
14:30-14:50 Ajit Godbole (University of Wollongong, Australia)
- OS3-9 **Boundary Element Method Simulations of Shockwave-Bubble**
14:50-15:10 **Interactions: Numerical and Experimental Comparisons**
Siew Wan Fong (Institute of High Performance Computing,
Singapore), Evert Klaseboer, Cary Turangan, Boo Cheong Khoo
(National University of Singapore, Singapore)
- OS3-10 **Flow phenomena of forced convective supercritical CO₂ in a circular**
15:10-15:30 **tube**
Hiroshi Yamaguchi and Xin-Rong Zhang