

## OS3: Transdisciplinary Fluid Integration

### Fuji A

November 8, 2006

- 9:00-9:10      **OS-3 Opening Address**  
Toshiyuki Hayase (Tohoku University, Japan)
- OS3-1            **Aeronautical Design and Aviation Safety in Integrated**  
9:10-9:30      **FluidInformatics**  
Shigeru Obayashi and Shinkyu Jeong (Tohoku University, Japan)
- OS3-2            **Reality Coupled Computation of Complex Multiphase Flow**  
9:30-9:50      Jun Ishimoto (Tohoku University, Japan)
- OS3-3            **Collaborative Visualization Design R&Ds in Integrated Visual**  
9:50-10:10     **Informatics**  
Issei Fujishiro and Yuriko Takeshima (Tohoku University, Japan)
- 10:10-10:20    Break
- OS3-4            **Measurement of Boundary-Layer Transition by Towing Wind Tunnel**  
10:20-10:40    Shuya Yoshioka, Yasuaki Kohama, Takuma Kato, Fukuo Ohta,  
Masahiro Tokuyama and Satoshi Kikuchi (Tohoku University, Japan)
- OS3-5            **Integration of Measurement and Simulation in Complex Blood Flow**  
10:40-11:00    **Researches in Super-Real-Time Medical Engineering Laboratory**  
Toshiyuki Hayase (Tohoku University, Japan)
- OS3-6            **Ultimate Top-down Etching Processes for Future Nano-scale Devices**  
11:00-11:20    Seiji Samukawa (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 CO<sub>2</sub> in a circular**  
15:10-15:30    **tube**  
Hiroshi Yamaguchi and Xin-Rong Zhang