

OS1: Innovative Aerospace Theory and Technology

SUEHIRO

November 7, 2006

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| OS1-1 | An Overview of CFD at Bombardier Aerospace |
| 14:20-15:20 | <u>Ian Fejtek</u> (Bombardier Aerospace, Canada) |
| OS1-2 | Numerical Prediction of Aircraft Noise |
| 15:20-15:40 | - Recent Research Work at JAXA - |
| | <u>Kazuomi Yamamoto</u> , Shunji Enomoto, Taro Imamura, Junichi Kazawa, Osamu Nozaki (Japan Aerospace Exploration Agency, Japan) |
| OS1-3 | Vortical Structures in Flap-tip Flowfield of Commercial Aircraft Model |
| 15:40-16:00 | Applying CFD and WTT |
| | <u>Masafumi Kuroda</u> (Tohoku University, Japan), Yuzuru Yokokawa, Mitsuhiro Murayama (Japan Aerospace Exploration Agency, Japan) and Kazuhiro Nakahashi (Tohoku University, Japan) |
| 16:00-16:10 | Breaks |
| OS1-4 | Design Optimization of Elements' Setting for a High-Lift Airfoil Based on Data Mining Technique |
| 16:10-16:30 | <u>Masahiro Kanazaki</u> (Japan Aerospace Exploration Agency, Japan), Shinkyu Jeong (Tohoku University, Japan), Mitsuhiro Murayama, Yuzuru Yokokawa, and Kazuomi Yamamoto (Japan Aerospace Exploration Agency, Japan) |
| OS1-5 | Winglet Shape Optimization Based on Drag Decomposition Method |
| 16:30-16:50 | <u>Wataru Yamazaki</u> , Kisa Matsushima, and Kazuhiro Nakahashi (Tohoku University, Japan) |
| OS1-6 | Numerical Evaluation and Design of Optical Setup for Compressible Flow Visualization |
| 16:50-17:10 | <u>Mingyu Sun</u> (Tohoku University, Japan) |

November 8, 2006

- OS1-7 **Low-boom Small-sized SST designed using Silent Supersonic Technology**
9:30-09:50 Takeshi Furukawa, Yoshikazu Makino and Shigeru Horinouchi
 (Japan Aerospace Exploration Agency, Japan)
- OS1-8 **An Approach to Avoiding Choked Flow for Supersonic Biplane**
09:50-10:10 Hiroshi Yamashita, Masahito Yonezawa, Shigeru Obayashi (Tohoku University, Japan), Kazuhiro Kusunose (Japan Defense Agency, Japan)
- OS1-9 **Sweep Effect in Three-dimensional Busemann Biplane**
10:10-10:30 Masahito Yonezawa, Hiroshi Yamashita, Shigeru Obayashi (Tohoku University, Japan), Kazuhiro Kusunose (Japan Defense Agency, Japan)
- OS1-10 **Aerodynamic Assessment of a Biplane Airfoil as Future Supersonic Transport Based on Busemann Biplane**
10:30-10:50 Daigo Maruyama, Kisa Matsushima (Tohoku University, Japan), Kazuhiro Kusunose (Japan Defense Agency, Japan), Kazuhiro Nakahashi (Tohoku University, Japan)
- OS1-11 **Experimental Study on Aerodynamics of Supersonic Biplane for Sonic-Boom Reduction**
10:50-11:10 Naoshi Kuratani, Toshihiro Ogawa, Hiroshi Yamashita, Masahito Yonezawa, Shigeru Obayashi (Tohoku University, Japan)
- 11:10-13:00 Lunch
- OS1-12 **Innovative aerodynamic and acoustic design of a Supersonic Business Jet**
13:00-14:00 Gilbert Roge (Dassault Aviation, France)
- 14:00-14:10 Breaks

- OS1-13 **Active Control of Asymmetric Forebody Vortices Using Plasma**
14:10-14:30 **Actuators**
Takashi Matsuno, Hiromitsu Kawazoe (Tottori University, Japan),
Robert C. Nelson and Thomas C. Corke (University of Notre Dame,
USA)
- OS1-14 **Performance Evaluation of a Micro Thruster Utilizing Hydrogen**
14:30-14:50 **Peroxide Decomposition**
Jeongsub Lee, Sungyong An, Sejin Kwon (Korea Advanced Institute of
Science and Technology, Korea)
- OS1-15 **MHD Free convection and mass transfer flow in a porous media with**
14:50-15:10 **simultaneous rotating fluid (Part-II)**
Ferdows Mohammad and Koji Kaino
(Toyota Technological Institute, Japan)