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Shigeya Watanabe, Japan Aerospace
Exploration Agency (JAXA)

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Russell Cummings, United States Air Force
Academy
Kevin Knowles, Cranfield University
Shigeru Obayashi, Tohoku University
Philippe Planquart, von Karman Institute
Patrick Rambaud, von Karman Institute
Alistair Saddington, Cranfield University
Shigeya Watanabe, JAXA

Local Scientific Committee

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Takayuki Ito, Ochanomizu University
Takeshi Ito, JAXA
Masahiro Kanazaki, Tokyo Metropolitan
University
Hiromitsu Kawazoe, Tottori University
Yuichi Matsuo, JAXA
Shigeru Obayashi, Tohoku University
Akihiro Sasoh, Nagoya University
Keisuke Sawada, Tohoku University
Kojiro Suzuki, University of Tokyo
Makoto Tsubokura, Hokkaido University
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Kazuomi Yamamoto, JAXA
Kenji Yoshida, JAXA

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Kentaro Imagawa, JAXA
Shigeru Kuchi-Ishi, JAXA
Hiroyuki Kato, JAXA
Keiichi Murakami, JAXA
Toshiyuki Suzuki, JAXA
Kanako Yasue, JAXA

Symposium Venue

The Symposium will be held at JAXA Chofu Aerospace Center (CAC), Tokyo, JAPAN (http://www.jaxa.jp/about/centers/cac/index_e.html). JAXA CAC is located 20 km

west of the downtown Tokyo. It takes about two hours by train and bus from Narita International Airport, the main international airport in Tokyo area.



Important Dates

Online Abstract Submission Open: Feb. 1, 2012
Deadline for Abstract Submission: May 31, 2012
Notification of Acceptance: Jun. 22, 2012
Deadline for Early Registration: Jul. 27, 2012
Deadline for Paper Submission: Sep. 7, 2012

Registration Fee

Early Registration: JPY 30,000
On-site Registration: JPY 40,000
includes bus transport between hotel and conference location, proceedings, lunches, the reception, coffee breaks, and the banquet.

Hosts

Japan Aerospace Exploration Agency (JAXA)
7-44-1, Jindaiji-Higashi, Chofu
Tokyo 182-8522, JAPAN
http://www.jaxa.jp/index_e.html

Tohoku University
2-1-1, Katahira, Aoba-ku
Sendai 980-8579, JAPAN
<http://www.tohoku.ac.jp/english/>

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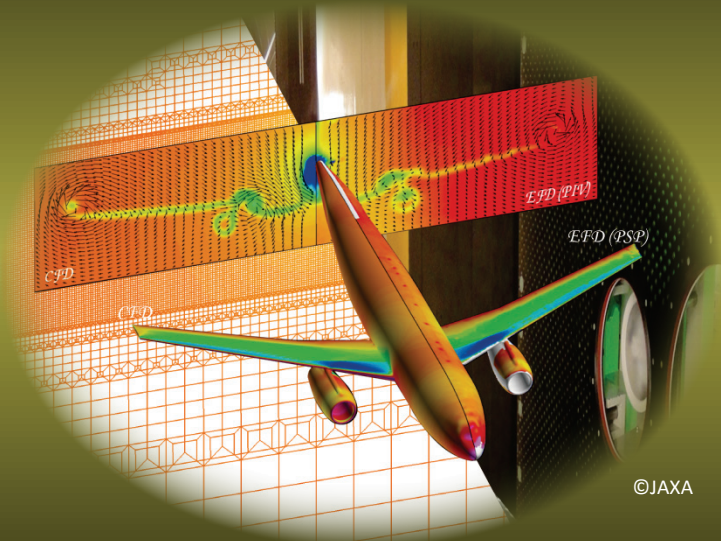
Japan Society for Aeronautical and Space Sciences (JSASS)
The Japan Society of Fluid Mechanics (JSFM)
The Japan Society of Mechanical Engineers (JSME)
The Japan Society for Industrial and Applied Mathematics (JSIAM)
The Visualization Society of Japan (VSJ)
Society of Automotive Engineers of Japan (JSAE)



Call for Papers

Integration 2012

*5th Symposium on
Integrating
CFD and Experiments
in Aerodynamics*



October 3-5, 2012

JAXA Chofu Aerospace Center
Tokyo, JAPAN

<http://integration2012.jaxa.jp>



Call for Papers

5th Symposium on Integrating CFD and Experiments in Aerodynamics: Integration 2012

October 3 – 5, 2012

Chofu Aerospace Center, Japan Aerospace Exploration Agency (JAXA), Tokyo, Japan

Scope and Topics

CFD practitioners and experimentalists have a common goal of understanding aerodynamics. It is therefore surprising that often the disciplines have only a very limited interaction, which usually involves the validation of CFD. This practice supports integration at the most basic level but often there is no interaction whatsoever between the experimentalist and the CFD practitioners. This situation is unsatisfactory from many points of view including:

- the need to have an appreciation of the flow before deciding what should be measured;
- the desirability to check experimental measurements as they are taken;
- the difficulty in making certain important measurements;
- the need to assess the influence of the experimental techniques on the measurements;
- the ability of CFD to provide detailed flow information and sensitivity at a reasonable cost for some cases;
- the large cost of CFD calculations for other cases;
- the lack of credibility for the CFD results for some flow categories.

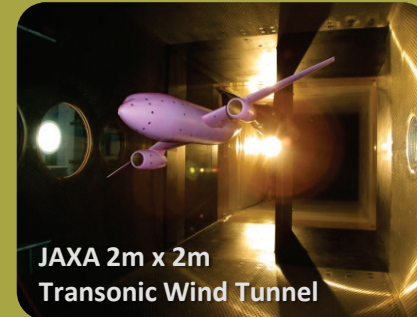
It could be argued that the process of aerodynamic investigation would be significantly enhanced if the integration of CFD and EFD (Experimental Fluid Dynamics) were much stronger. In particular, the design and reliability of EFD could be significantly enhanced by CFD, the scope of experimental measurements extended through CFD and the credibility of the simulation results enhanced by the availability of suitable measurements from EFD. This sort of closer integration is, however, rare. The aim of the symposium is to bring together leading researchers from both fields to initiate more careful consideration of these issues and to stimulate new ways of approaching aerodynamic studies, leading to synergy of the two disciplines.

The symposium is dedicated to the important topic of how to use CFD and EFD towards the goal of improved understanding of aerodynamics. It will be held over three days with different sessions (oral and poster sessions) covering the following topics:

- subsonic and transonic flows
- supersonic, hypersonic, and plasma flows
- internal flows and turbomachinery applications

Each oral session will feature an invited paper from a prominent researcher in the field and contributed talks. The sessions will aim to cover:

- Experimentalists and requirements from CFD
- CFD requirements from experiments
- Examples of Integrated CFD and Experimental studies
- Future perspectives on innovative integration



JAXA 2m x 2m
Transonic Wind Tunnel



JAXA Supercomputer System

Technical Tours

Participants will have opportunity to visit some large-scale facilities in JAXA Chofu Aerospace Center (CAC) on October 5, the last day of the symposium. The facilities will include large-scale wind tunnels such as 6.5 m x 5.5 m low-speed wind tunnel, 2m x 2m transonic wind tunnel, and 1.27 m hypersonic wind tunnel, JAXA Super Computer System (JSS), aeroengine test facilities, and so on.

Abstract and Paper Submission

Contributed talks are invited in any area relevant to the symposium topic. Authors should submit abstracts of about 300 words with supporting figures as appropriate in PDF format to the conference organizers through the conference website (<http://integration2012.jaxa.jp>) no later than May 31, 2012.

Proceedings of the invited and contributed talks will be produced on a USB memory and distributed to the participants at the conference. Papers should be 8-12 pages in length and received by September 7, 2012. Formatting details including templates for MS Word will become available on the website. Paper submissions will be accepted in PDF (preferred) or MS-Word format.

Contact

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MOMIJI-GOU at Mt. Takao

Photo by: Takao Tozan Railway Co., Ltd.



Mt. Fuji view from Mt. Takao

Photo by: Hachioji Tourism Association



Jindaiji Temple

Photo by: Chofu Sightseeing Association