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東京大学グローバルCOEプログラム  
機械システム・イノベーション国際拠点  
<http://www.mechasys.jp/>

# 1st International Symposium on Global Center of Excellence for Mechanical Systems Innovation The Aerospace Innovation Workshop

School of Engineering Bldg. 11 Auditorium, Sanjo Conference Hall, Hongo Campus, The University of Tokyo

## February 2, 2009

### ■ 14:00-14:20 Opening Address :

*Takahira Aoki (Head of the Department of Aeronautics and Astronautics, The University of Tokyo, Japan)*

### Plenary Oral Session 1:

#### ■ 14:20-15:10 Imagine Air Traffic Management in 20 Years

*Karl Rein-Weston (Boeing, U.S.A.)*

#### ■ 15:10-16:00 Future Civil Aero Engine Propulsion Systems

*Pete Price (Rolls Royce, U.K.)*

#### ■ 16:00-16:20 Coffee break

### Plenary Oral Session 2:

#### ■ 16:20-16:50 Research Activities for Environmentally Friendly Jet Propulsion

*Toshinori Watanabe (The University of Tokyo, Japan)*

#### ■ 16:50-17:40 The Generic Nanosatellite Bus: from Space Astronomy to Formation Flying Demo to Responsive Space

*Freddy Pranajaya (University of Toronto, Canada)*

#### ■ 18:00-20:00 Banquet at Sanjo Conference Hall

#### ■ 11:10-11:30 Study on Free-surface Flow in Aerospace Propulsion Systems

*Takehiro Himeno (The University of Tokyo, Japan)*

#### ■ 11:30-11:50 Numerical Simulation of Jet Engine Surge Process

*Susumu Teramoto (The University of Tokyo, Japan)*

#### ■ 11:50-13:10 Lunch Break

### General Oral Session 2: (Related Fundamental Research)

#### ■ 13:10-13:30 Recent Study on the Applicability of Advanced Composites to Cryogenic Fuel Tanks

*Tomohiro Yokozeki, (The University of Tokyo, Japan)*

#### ■ 13:30-13:50 Trajectory Optimization and Flight-Test Results

*Takeshi Tsuchiya (The University of Tokyo, Japan)*

#### ■ 13:50-14:10 Research and Development of VTOL UAVs at JAXA

*Daisuke Kubo (Japan Aerospace Exploration Agency, Japan)*

#### ■ 14:10-14:30 Hydrogen Fuelled Sustainable Transport Aircraft - Conceptual Design Results from Student Design Project

*Kenichi Rinoie (The University of Tokyo, Japan)*

#### ■ 14:30-14:50 Coffee break

**Short Oral and Poster Presentation: Presentation by the graduate students**

#### ■ 14:50-16:00 Short Oral Presentation (3 minutes per person)

#### ■ 16:00-17:00 Poster Session

#### ■ 17:00-17:10 Closing

## February 3, 2009

### Plenary Oral Session 3:

#### ■ 10:00-10:50 3D PLM as Innovation Driver in Aerospace Industry

*Luc Jammes (Dassault Systems K.K. Japan)*

### General Oral Session 1: (Related Fundamental Research)

#### ■ 10:50-11:10 The Technical Features of Infrared Astrometry Nano-satellite "Nano-JASMINE"

*Nobutada Sako (The University of Tokyo, Japan)*