

International Workshop on Measurement and Diagnosis of Heat Transfer and Fluid Flow Systems

Date: April 21-22, 2005.

Venue: Institute of Fluid Science, Tohoku University, Sendai 980-8577, Japan
Sponsor: 21st Century COE Program, “International COE of Flow Dynamics”

April 22, Friday

Venue: 3rd Floor, COE Building, Institute of Fluid Science, Tohoku University,
Sendai 980-8577, Japan

8:30-8:50 Registration

8:50-9:00 Opening, Professor S. Maruyama, Chair of International Workshop

Morning Session

9:00-9:40 Validation and Initial Results from Direct Experimental Measurements
(DEM) of Shear Flow Turbulence
Professor W.J.A Dahm, University of Michigan, USA

9:40-10:20 A Wake Integration Method for Airplane Drag Prediction
Dr. K. Kusunose, COE Fellow, Tohoku University, Japan

10:20-10:40 Coffee Break

10:20-11:20 Combining Two Laser Diagnostic Techniques (LDA and CARS) to Measure
Simultaneously Fluid Velocity and Temperature in a Jet Flame
Professor K. Hanjalic, Delft University of Technology, Netherlands

11:20-12:00 Molecular Sensors for Shock-Induced Unsteady Flow Dynamics Research
Professor K. Asai, Tohoku University, Japan

12:00-13:00 Lunch

Afternoon Session

13:00-13:40 Laser Diagnostics for the Study of Dense fuel Sprays in Gas Turbines and
Internal Combustion Engines
Professor D. A. Greenhalgh, Cranfield University, UK

13:40-14:20 Recent Experimental and Theoretical Advances Describing Droplet and

Spray Impact Onto Walls and Liquid Films

Professor C. Tropea, Technical University Darmstadt, Germany

14:20-14:40 Coffee Break

14:40-15:20 AC Type Thermal Anemometry for Microflow Systems

Professor J. S. Lee, Seoul National University, Korea

15:20-16:00 Development of Precise Visualization System for Minimal Diffusion Field
Using Optical Interferometer

Dr. A. Komiya, Tohoku University, Japan

16:00-16:05 Closing

* Oral presentation will be 25 minutes and additional 15 minutes will be allocated for discussion