

International Symposium Series on Mechanical Systems Innovation

Takeda Conference Hall, The University of Tokyo

International Symposium on
Distributed Energy Systems and Micro Grids

「活」を極める。

小規模分散システムによるエネルギーの有効活用

December 7, 2005

December 8, 2005

Openings

9:20-9:40 Mechanical Systems Innovation
*Nobuhide Kasagi (Program Leader,
The University of Tokyo, Japan)*

1. Energy Vision and Energy Systems

9:40-10:25 Energy Vision "Triple 50" for
Sustainable Society

Naoki Shikazono (The University of Tokyo, Japan)

10:25-11:10 Limits of Distributed Generation
& Microgrids Deployment

Johan Driesen (Katholieke Universiteit Leuven, Belgium)

11:10-11:55 Holonic Energy Systems: Coevolution of
Distributed Energy Resources and Existing Network Energy
Hiroshi Asano (The University of Tokyo, Japan)

Lunch Break

13:00-14:30 **Student Session** (Oral Presentation)

14:30-15:00 **Coffee Break and Poster**

2. Fuel Cell and Hybrid Systems

15:00-15:45 A Realistic Intermediate Scenario toward
Hydrogen Society

Ken Okazaki (Tokyo Institute of Technology, Japan)

15:45-16:30 High Temperature Hybrid Systems
Modelling and Development

Aristide Massardo (Universita di Genova, Italy)

16:30-17:15 Hybrid Distributed Energy Systems Research
at the National Fuel Cell Research Center

Jack Brouwer

(University of California, Irvine, U.S.A.)

17:30-19:30 **Reception**

**3. Recent Development of
Distributed Energy Systems**

9:30-10:15 Development of MOLB type SOFC
*Koichi Takenobu (Mitsubishi
Heavy Industries, Ltd., Japan)*

10:15-11:00 Control of Distributed Resource Units in a
Micro-Grid

Reza Iravani

(University of Toronto, Canada)

11:00-12:30 **Poster Session**

Lunch Break and Poster

4. Recent Development of DES Related Components

13:30-14:15 Micro Gas Turbine and Gas Engine System for
Biomass Use
Shigehiko Kaneko

(The University of Tokyo, Japan)

14:15-15:00 Conventional and Innovative Choices for
MGT Combustion Systems

Raffaele Tuccillo (University of Naples, Italy)

15:00-15:30 **Coffee Break**

15:30-16:15 Application of Sodium Sulfur Battery
Tomio Tamakoshi

(NGK Insulators, Ltd., Japan)

16:15-17:00 Thermal Energy Storage and
Transportation Based on Absorption
Heat Pump Technology

Atsushi Akisawa

*(Tokyo University of Agriculture
and Technology, Japan)*

17:00-17:15 **Closing** *Shigehiko Kaneko*

Posters are displayed for two full days for
discussions during breaks.



主催：東京大学21世紀COEプログラム「機械システム・イノベーション」

The 21st Century COE Program: Mechanical Systems Innovation, The University of Tokyo

URL: <http://www.mechasys.jp/> E-mail: office-coe@thtlab.t.u-tokyo.ac.jp Tel.: +81-3-5841-7437