

International Workshop on Environmentally Friendly Vehicles



March 1-3, 2004 Tokyo, Japan

Open Workshop, Monday, March 1

EFV Initiatives in Japan, the U.S. and Europe

Open Workshop, Tuesday, March 2

Interim Report of Project to Promote
Development of Next-Generation
Low-Emission Vehicles

Open Workshop, Wednesday, March 3

Academic Forum-Advancement of
Academic Research on EFV

International Conference Hall, Ibuka Memorial Hall
Waseda University Science Information Center

March 1 (Mon.) Theme: "EFV Initiatives in Japan, the U.S. and Europe"

- 10:00-10:10 Opening address and greeting, Ministry of Land, Infrastructure and Transport
Satoshi Yabe, Director General for Policy Coordination, Ministry of Land, Infrastructure and Transport
- 10:10-10:50 Keynote Address: Developing Advanced Technologies for Environmentally Friendly Vehicles
Yasuhiro Daisho, Professor, Science and Engineering Faculty, Waseda University
- 10:50-11:30 Environmentally Friendly Vehicles: Initiatives in the United States
Michael P. Walsh, Independent Consultant
- 11:30-12:10 Support Activities for EFV Development in Europe

Lunch

- 13:30-14:10 Support Activities for EFV Development in Japan (Governmental)
Kohei Goto, Director, International Transport Policy Office, International Planning Division, Policy Bureau, Ministry of Land, Infrastructure and Transport
- 14:10-14:40 Environmentally Friendly Vehicles : GM's Strategy
Steven S. Carlisle, Vice President, Planning and R&D, General Motors Asia Pacific
- 14:40-15:10 Engine, Transmission and Hybrid-Component Optimization for High Efficient Passenger Car Powertrains
Thomas Pels, Manager Hybrid Propulsion Systems, Engineering and Technology Powertrain Systems, AVL List GmbH.

Break, coffee

- 15:40-16:10 The Ricardo Perspective of Environmentally Friendly Vehicle Engine Technologies for Europe
Richard Gordon, Manager, Business Operations, Ricardo Japan Ltd.
- 16:10-16:40 EFV Initiatives in KOREA
Simsoo Park, Professor, Dept. of Mechanical Engineering, Korea University
- 16:40-17:10 Activities toward EFV in the Japanese Automotive Industry
Nobutaka Morimitsu, Chairman, Emission and Fuel Efficiency Subcommittee, Japan Automobile Manufacturers Association, Inc.
- 17:10 Wrap-up

March 2 (Tues.) Theme: "Interim Report of Project to Promote Development of Next-Generation Low-Emission Vehicles"

- 9:30-9:35 **Greeting**
Tetsuro Ohashi, President, National Traffic Safety and Environment Laboratory
- 9:35-10:05 **General lecture: Significance and Background of Next-Generation Environmentally Friendly Vehicles**
Makoto Ikegami, Professor Emeritus of Kyoto University, Professor, Department of Mechanical Engineering, Fukui University of Technology
- 10:05-10:20 **General Outline of "Project to Promote Development of Next-Generation Low Emission Vehicles"**
Kazuyuki Narusawa, Principal Resercher, Environment Research Department, National Traffic Safety and Environment Laboratory
- 10:20-11:20 **Development Outline of DME Truck**
Yoshio Sato, Principal Researcher, Environment Research Department, National Traffic Safety and Environment Laboratory
Takayuki Tsuchiya, Research Engineer, Research Department, NISSAN DIESEL MOTOR CO., LTD.
- 11:20-12:20 **Development of Ultra Low Emission Heavy Duty Natural Gas Truck**
Yuichi Goto, Principal Researcher, Environment Research Department, National Traffic Safety and Environment Laboratory
Yoshiaki Miyata, General Manager, Natural Gas Vehicle Project Dept., The Japan Gas Association
Makoto Oguchi, Researcher, Energy and Environment Research Division, Japan Automobile Research Institute

Lunch

- 13:30-15:00 **Development Outline of Hybrid Bus and Hybrid Truck**
Morimasa Hayashida, Senior Researcher, Environment Research Department, National Traffic Safety and Environment Laboratory
Yoichiro Kono, Expert, HEV System Development Team Research & Development Office, MITSUBISHI FUSO TRUCK & BUS CORP.
Tetsuo Koike, General Manager, Hybrid Vehicle Development Division, Hino Motors, Ltd.

Break, coffee

- 15:30-16:30 **Development of Super Clean Diesel Engine**
Hajime Ishii Senior Researcher, Environment Research Department, National Traffic Safety and Environment Laboratory
Yuzo Aoyagi, Managing Director and General Manager, Research Department, New ACE. Institute Co., Ltd.
- 16:30-16:50 **Fleet Tests for Fuel Cell Bus**
Shigeru Ueki, Senior Researcher, Research and Survey Division, Organization for the Promotion of Low Emission Vehicles (LEVO)

March 3 (Wed.) Theme: "Academic Forum-Advancement of Academic Research on EFV"

- 10:00-10:40 **Keynote Address: Advanced Powerplants and Future Fuel Technologies**
Nigel Gale, Vice President, Southwest Research Institute
- 10:40 - 11:05 **HCCI at Lund University**
Bengt Johansson, Professor, Div. Combustion Engines, Lund University
- 11:05 - 11:30 **New Generation Hybrid Electric Technology**
Ken Tanoue, Project General Manager, Hybrid Project Power Train Planning Dept. Power Train Development Group, TOYOTA MOTOR CORPORATION
- 11:30 - 11:55 **Hydrogen Fuel Vehicles**
Yasuo Takagi, Professor, Environmental Energy Engineering, Musashi Institute of Technology

Lunch

- 13:10 - 13:35 **Future Conventional Fuels**
Michihiro Mohri, Director & General Manager, Central Technical Research Laboratory, Nippon Oil Corporation
- 13:35 - 14:00 **Gas to Liquids (GTL) Transportation Fuel**
Jack JACOMETTI, Vice President, GTL Global Development, Shell International Gas Limited
- 14:00 - 14:25 **Utilization Technologies of Dimethyl Ether (DME) and its wide use possibility in the Future**
Shuichi Kajitani, Professor, Ph.D., Faculty of Engineering, Ibaraki University
- 14:25 - 14:50 **Liquid Fuel Production from Biomass**
Shinya Yokoyama, Director, AIST Chugoku, National Institute of Advanced Science and Technology

Break, coffee

- 15:20 - 16:20 **Panel Discussion: Sustainable Mobility**
Coordinator: Masanobu Wada, General Manager, Environmental and Safety Engineering Department, NISSAN MOTOR CO., LTD.
- 16:20 - 16:50 **Research Activities at National Traffic Safety and Environment Laboratory**
Matsuo Odaka, Executive Director, National Traffic Safety and Environment Laboratory
- 16:50 - 17:20 **Recent Research Activities for Environmentally Friendly Power Systems and Vehicles at the Mobility Research Group, Waseda University**
Jin Kusaka, Ph. D., Associate Professor, Dept. of Mechanical Engineering, School of Science and Engineering, Waseda university

Closing Ceremony