

International Conference “Global/Local Innovations for Next Generation Automobiles”

Part1 : Special Session of Tenth International Conference on Fluid Dynamics(ICFD2013)

OS5: “Global/Local Innovations for Next Generation Automobiles”

オーガナイザー: A. Miyamoto(Tohoku University), P. Kapsa(Ecole Central de Lyon)

日付:2013年11月25日(月) – 27日(水)

会場: 仙台国際センター

登録料:

事前登録 (10/3 まで):一般 20,000 円 学生 2,000 円

当日登録: 一般 25,000 円 学生 3,000 円

ウェブサイト: <http://www.miyagacar.com/icfd-english/>
<http://www.ifs.tohoku.ac.jp/icfd2013/>

11月25日(月)

12:00-12:50 Session OS5 ランチミーティング (桜1)

OS5 Session オープニング 13:00-13:10

Akira Miyamoto and Philippe Kapsa

司会: Yasutaka Iguchi, Nozomu Hatakeyama

OS5-1 13:10-13:50

Convergence of Transportation and Energy in the Future

Mark C. Williams (URS, USA)

OS5-2 13:50-14:30

Research and development of fully automated vehicles

Keiji Aoki (Japan Automobile Research Institute, Japan)

OS5-3 14:30-15:10

Human Factor Research Using a Driving Simulator

Kimihiko Nakano (The University of Tokyo, Japan)

休憩 15:10-15:30

司会: Masuo Okada, Masahiro Nishizawa

OS5-4 15:30-16:10

Vehicle Innovations Bring Regional Community into the New Age – Fuel Cell Vehicle and Hydrogen Move to the 2015 Introduction –
Katsuhiko Hirose (Toyota Motor Corporation, Japan)

OS5-5 16:10-16:50

Research and Development of Transport Simulation
Alexandre Torday (Transport Simulation Systems, Australia)

司会: Shigenao Maruyama, Tsutomu Ito

OS5-6 16:50-17:30

NDT-Innovations in The Automotive Industrial Sector And To Light-Weight Materials
Gerd Dobmann (Fraunhofer-IZFP, Germany)

OS5-7 17:30-18:00

Compact-Sizing of Optical Topography Technology (NIRS)
Kiyoshi Hasegawa (Hitachi, Ltd., Japan)

OS5 Session デイナーパーティー 19:00-21:00

会場：ウエスティンホテル 25階 月

11月26日(火)

司会: Shiro Takegami, Akira Yoshikawa

9:00-10:30 ポスターショートプレゼン - 1

司会: Tsunemoto Kuriyagawa, Hitoshi Takamura

10:40-12:00 ポスターショートプレゼン - 2

12:00-12:50 Session OS5 ランチミーティング (桜1)

13:00-14:30 ポスター交流会

司会: **Noriko Behling, Masayoshi Esashi**

OS5-8 14:30-15:00

Understanding the Triple Helix Model and the Finance of Innovation:
Implications for Japan

Masato Hisatake (Tohoku University, Japan)

OS5-9 15:00-15:40

Understanding the Triple Helix Model and the Finance of Innovation

Erik P. M. Vermeulen (Tilburg University, The Netherlands)

OS5-10 15:40-16:20

Innovation, University Entrepreneurship and the Role of Triple Helix

Shigeo Kagami (The University of Tokyo, Japan)

休憩 16 : 20-16 : 30

司会: **Kazumi Nishijima, Hiroshi Inomata**

OS5-11 16:30-17:10

Can Functional Brain Imaging Prompt Innovations in Next-generation
Automobiles?

Ryuta Kawashima (Tohoku University, Japan)

OS5-12 17:10-17:50

Alzheimer's disease from pathology to therapeutics

Takeshi Iwatsubo (The University of Tokyo, Japan)

18:00-20:30 ICFD バンケット (桜)

11月27日(水)

司会: **Tsugio Sato, Junichi Kawamura**

OS5-13 9:00-9:30

The Japanese Next Generation Vehicle Strategy: A Successful Strategy to
Achieve CO₂ Emission Reduction and Global Green Vehicle Leadership

Noriko Behling (Author, USA)

OS5-14 9:30-10:00

NH₃-DeNO_x Performance of the Composite [Fe-Beta + Fe(Mn)MCM-48]
Catalyst: Combining SCR Activity and NH₃ Oxidation Activity for NH₃ Slip
Removal

Alexandr Yu. Stakheev, Dmitry A. Bokarev, Alina I. Mytareva (N. D.
Zelinsky Institute of Organic Chemistry, Russia), Rajesh Kumar Parsapur
and Parasuraman Selvam (Indian Institute of Technology Madras, India)

OS5-15 10:00-10:30

Li-ion Battery Module for Small Electric Vehicles
Hiroshi Matsuo (Micro Vehicle Lab. Ltd., Japan)

休憩 10:30-10:40

司会: **Mark C. Williams, Tetsuo Shoji**

OS5-16 10:40-11:00

Research and Development of Tribological Techniques for Automotive Parts
Naruhiko Inayoshi, Keiji Sasaki and Ryoichi Hombo (DENSO
CORPORATION, Japan)

OS5-17 11:00-11:20

Starved Lubrication: Contribution of Laser Surface Micro-Texturing
Florian Brémond (IREIS, France), Denis Mazuyer (Ecole Centrale de Lyon,
France), Philippe Maurin-Perrier (IREIS, France) and Juliette ayer-Barrioz
(Ecole Centrale de Lyon, France)

OS5-18 11:20-12:00

Traffic Management Future
Reinhard Pfliegl (A3PS, Austria)

12:00-12:50 Session OS5 ランチミーティング (桜1)

司会: **Akihiro Isomura, Hiroki Sato**

OS5-19 13:00-13:30

Tribology for the future: Biomimetism and Surface Engineering
Philippe Kapsa (Ecole Centrale de Lyon, France)

OS5-20 13:30-14:10

Synthetic Biofuels From Biomass

Joachim Knebel, Nicolaus Dahmen and Jörg Sauer (Institute for Catalysis
Research and Technology, Germany)

OS5-21 14:10-14:50

VEHICLE TECHNOLOGY & ENERGY CENTRE Canadian Applied

Research Experience at Red River College

Ray Hoemsen (Red River College, Canada)

休憩 14:50-15:00

司会: **Tatsuhiko Yoshimura, Kazuhiro Kosuge**

OS5-22 15:00-15:20

RED RIVER COLLEGE VEHICLE TECHNOLOGY & ENERGY CENTER

Applied Research Project Selection: “Student & Staff Centered”

Neil Cooke (Red River College, Canada)

OS5-23 15:20-16:00

Modeling, Simulation, Analysis and Control of Freeway Traffic Corridors

Roberto Horowitz (University of California, USA)

終わりに: **Akira Miyamoto and Philipe Kapsa**

<送迎バスにて、秋保温泉へ移動>

Worldwide Leaders Dinner Party of Next Generation Automobiles

18:00-20:00

会場: 秋保温泉 佐勘

Part2 : “Worldwide Leaders Meeting on Global/Local Innovations for Next Generation Automobiles”

オーガナイザー: A. Miyamoto (Tohoku University) and K. Nakatsuka(ICR)

日付: 11月28日(木)

会場: 仙台トラストタワー

登録料: 無料

ウェブサイト: <http://www.miyagicar.com/icfd-english/>

11月28日(木)

10:00-10:10 はじめに Akira Miyamoto

司会: Katsuto Nakatsuka, Kazuhiro Kosuge

10:10-10:40 Regional Innovation Cluster Policy of MEXT

Hiroki Takaya (Ministry of Education, Culture, Sports, Science and Technology (MEXT))

10:40-11:10 VisLab’s latest Autonomous Driving challenges: from intercontinental to urban tests

Alberto Broggi (VisLab, The Artificial Vision and Intelligent Systems Lab.)

司会: Toshio Kato, Akira Miyamoto

11:10-12:00 地域イノベーション・次世代自動車の発展のための My Idea-Part 1
プレゼンテーション約10名(各4分)

12:10-13:50 ランチミーティング (ウェスティンホテル仙台 一舞庵)

司会: Katsuto Nakatsuka

14:00-14:30 Next-Generation Advanced Mobility System

Fumihiko Hasegawa (Tohoku University, Japan)

司会: Toshio Kato, Akira Miyamoto

14:30-16:00 地域イノベーション・次世代自動車の発展のための My Idea-Part 2
プレゼンテーション約18名(各4分)

16:00-16:10 まとめ