

**The 5th Advanced Forum on Tribology,
2014 Fuji**

Program

April 13, 2014 (Sunday)

April 14, 2014 (Monday)

8:00	0		
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9:00	0	09:00-09:40 Registration	
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	40	09:40-09:50 Opening remarks, <i>J.Luo & M.Masuko</i>	
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10:00	0	09:50-11:35 Session I Chair: Y. Ando	
	10		09:50-10:25 (Keynote) <i>Shigeka Yoshimoto</i>
	20		10:25-11:00 (Keynote) <i>Tianmin Shao</i>
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	40	11:00-11:35 (Special Lecture) <i>Yoshitsugu Kimura</i>	
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11:00	0		
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12:00	0	11:35-12:35 < Group photo > at Minato park	
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13:00	0	12:35-13:35 < Lunch & Exhibition >	
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14:00	0	13:35-15:40 Session II Chair: J. Luo	
	10		13:35-14:00 (Invited) <i>Chengqing Yuan</i>
	20		14:00-14:25 (Invited) <i>Toru Kamiya</i>
	30		14:25-14:50 (Invited) <i>Yongzhen Zhang</i>
	40		14:50-15:15 (Invited) <i>Takeshi Yamamoto</i>
	50	15:15-15:40 (Invited) <i>Fei Zhou</i>	
15:00	0		
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16:00	0	15:40-16:20 < Poster session & Exhibition >	
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17:00	0	16:20-18:00 Session III Chair: K. Tanaka	
	10		16:20-16:45 (Invited) <i>Hideaki Mitsui</i>
	20		16:45-17:10 (Invited) <i>Jian Li, Wuhan</i>
	30		17:10-17:35 (Invited) <i>Eiji Nagatomi</i>
	40	17:35-18:00 (Invited) <i>Fengyuan Yan</i>	
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18:00	0		
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19:00	0		
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20:00	0	19:00-21:00 < Banquet > at Hotel Grand Fuji	
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21:00	0		

08:40-08:50	Opening remarks, <i>Seiji Honda</i>
08:50-10:15 Session IV Chair: Y. Zhang	08:50-09:25 (Keynote) <i>Hitoshi Nagakura</i>
	09:25—09:50 (Invited) Dong Zhu
	09:50-10:15 (Invited) <i>Feng Guo</i>
10:15-10:35	< Coffee break & Exhibition >
10:35-12:00 Session V Chair: Y. Murakami	10:35-11:10 (Keynote) <i>Jianmin Chen</i>
	11:10-11:35 (Invited) <i>Kenji Sunahara</i>
	11:35-12:00 (Invited) <i>Wenzhong Wang</i>
12:00-12:45	< Lunch >
12:45-13:30	< Poster session & Exhibition >
13:30-14:45 Session VI Chair: D. Zhu	13:30-13:55 (Invited) <i>Koji Miyake</i>
	13:55-14:20 (Invited) <i>Jiadao Wang</i>
	14:20-14:45 (Invited) <i>Kentaro Tanaka</i>
14:45-15:00	Closing remarks, <i>Takahisa Kato</i>

15:15-17:10	< Lab. tour >
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18:30-20:30	< JATCO Dinner > at Apa Hotel, Fuji-Chuou
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The 5th Advanced Forum on Tribology 2014, Fuji

April 13, 2014 (Sunday)

- 09:00-09:40 Registration
- 09:40-09:50 Opening remarks
***Masabumi Masuko**, Tokyo Institute of Technology, Japan*
***Jianbin Luo**, Tsinghua University, China*
- 09:50-11:35 Session I (Chair: **Yasuhisa Ando**, Tokyo University of Agriculture and Technology)
- 09:50-10:25 (Keynote) Applications of CFD to Fluid-Film Lubrication
*(**Shigeka Yoshimoto**, Tokyo University of Science, Japan)*
- 10:25-11:00 (Keynote) Adhesion in Thin Solid Coatings
*(**Tianmin Shao**, Tsinghua University, China)*
- 11:00-11:35 (Special Lecture) Global Predictive Maintenance System Through Internet:
Expected Role of Tribology
*(**Yoshitsugu Kimura**, The University of Tokyo and Kagawa University, Japan)*
- 11:35-12:35 < Group photo >
- 12:35-13:35 < Lunch & Exhibition >
- 13:35-15:40 Session II (Chair: **Jianbin Luo**, Tsinghua University)
- 13:35-14:00 (Invited) Study on Wear Behaviour and Wear Model of Nitrile Butadiene
Rubber (NBR) Under Water Lubricated Conditions
*(**Chengqing Yuan**, Wuhan University of Technology, China)*
- 14:00-14:25 (Invited) The Analysis Method of Wear Particles of DLC Film and Diagnosis for
the Wear of DLC/DLC Contact under Oil-Lubrication
*(**Toru Kamiya**, JTEKT Corporation, Japan)*

14:25-14:50 (Invited) Dry Sliding Tribological Characteristics of Metallic Materials Under Magnetic Environment
(Yongzhen Zhang, Henan University of Science and Technology, China)

14:50-15:15 (Invited) Development of the Start-Off Element for JATCO CVT8 Hybrid-Equipped Vehicles
(Takeshi Yamamoto, JATCO Ltd, Japan)

15:15-15:40 (Invited) Tribological Properties of Cr/a-C Coatings in Aqueous Solutions
(Fei Zhou, Nanjing University of Aeronautics and Astronautics, China)

15:40-16:20 < Poster session & Exhibition >

16:20-18:00 Session III (Chair: **Kentaro Tanaka**, Tokyo University of Marine Science and Technology)

16:20-16:45 (Invited) Advanced Fluid Technology for Push-Belt Continuously Variable Transmissions
(Hideaki Mitsui, Afton Chemical Japan Corporation, Japan)

16:45-17:10 (Invited) Effect of Aging on Tribological Properties of TMPTO Synthetic Lubricant
(Jian Li, Wuhan Research Institute of Materials Protection, China)

17:10-17:35 (Invited) The Development to Control Simultaneously Both Viscosity and Separation Temperature of a Two Phase Lubricant for Practical Use
(Eiji Nagatomi, Showa Shell Sekiyu K. K., Japan)

17:35-18:00 (Invited) Tribological Behaviours of Polymers in the Sea Water
(Fengyuan Yan, Lanzhou Institute of Chemical Physics, China)

19:00-21:00 < Banquet >

April 14, 2014 (Monday)

- 08:40-08:50 Opening remarks
Seiji Honda, JATCO Ltd, Japan
- 08:50-10:15 Session IV (Chair: **Yongzhen Zhang**, Henan University of Science and Technology)
- 08:50-09:25 (Keynote) Evolution of JATCO CVTs
(Hitoshi Nagakura, JATCO Ltd, Japan)
- 09:25-09:50 (Invited) Plasto-Elastohydrodynamic Lubrication
(Dong Zhu, Sichuan University, China)
- 09:50-10:15 (Invited) Interface Affinity Effect of Thin Film Lubrication at Micro-Scale
(Feng Guo, Qingdao Technological University, China)
- 10:15-10:35 < Coffee break & Exhibition >
- 10:35-12:00 Session V (Chair: **Yasuhiro Murakami**, Afton Chemical Japan Corporation)
- 10:35-11:10 (Keynote) Research on Application of Superlubricative Carbon-Based Film in Space Technology
(Jianmin Chen, Lanzhou Institute of Chemical Physics, China)
- 11:10-11:35 (Invited) Selection of Lubricants for Avoiding Electrical Pitting
(Kenji Sunahara, Yaskawa Electric Corporation, Japan)
- 11:35-12:00 (Invited) Lubricant Distribution on Bearing Raceway and Its Effect on the Lubrication Performance
(Wenzhong Wang, Beijing Institute of Technology, China)
- 12:00-12:45 < Lunch >
- 12:45-13:30 < Poster session & Exhibition >

13:30-14:45 Session VI (Chair: **Dong Zhu**, Sichuan University)

13:30-13:55 (Invited) Molecular Behavior of Imidazolium-Based Ionic Liquids at Friction Surface

(Koji Miyake, AIST, Japan)

13:55-14:20 (Invited) Locomotion and Anti-Adhesion of a Benthic Diatom

(Jiadao Wang, Tsinghua University, China)

14:20-14:45 (Invited) Sliding Friction by a Liquid Bridge

(Kentaro Tanaka, Tokyo University of Marine Science and Technology, Japan)

14:45-15:00 Closing remarks

Takahisa Kato, The University of Tokyo, Japan

15:15-17:10 < Lab. tour >

18:30-20:30 < Dinner >

Poster session

Grease Leakage Prevention by Modifying Cage Shape for Double-Row Angular Ball Bearings

(Tomoya Sakaguchi, NTN Corporation, Japan)

A Novel Polymer-Like a-C:H:Si Film Grown from Energetic Ions for Superlubricity

(Xinchun Chen, The University of Tokyo, Japan)

Structure Characterization of Ion-Vapor Deposited a-(Si:)C:H Coating by Solid State NMR

(Jiao Xu, The University of Tokyo, Japan)

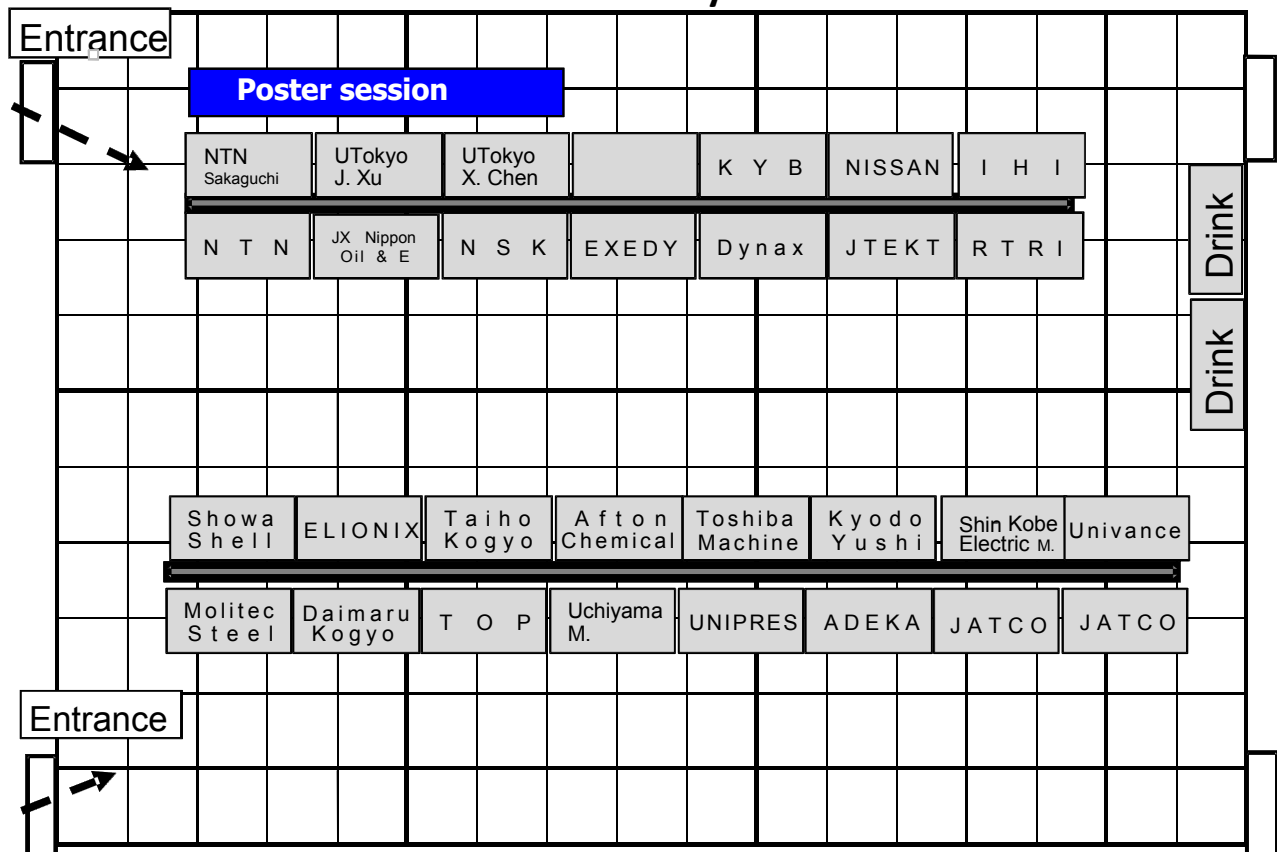
THE FIFTH ADVANCED FORUM ON TRIBOLOGY 2014, FUJI EXHIBITION

EXHIBITORS:

ADEKA Corporation
 Afton Chemical Japan Corporation
 Daimaru Kogyo, Ltd.
 Dynax Corporation
 ELIONIX INC.
 EXEDY Corporation
 IHI Corporation
 JATCO Ltd
 JTEKT Corporation
 JX Nippon Oil & Energy Corporation
 KYB Corporation
 Kyodo Yushi Co., Ltd.

Molitec Steel Co., Ltd.
 Nissan Motor Co., Ltd.
 NSK Ltd.
 NTN Corporation
 Railway Technical Research Institute
 Shin-Kobe Electric Machinery Co., Ltd.
 Showa Shell Sekiyu K.K.
 Taiho Kogyo Co., Ltd.
 TOP Co., Ltd.
 Toshiba Machine Engineering Co., Ltd.
 Uchiyama Manufacturing Corporation
 UNIPRES Corporation
 UNIVANCE Corporation

Hall South Layout



- Main venue JATCO Ltd, <http://www.jatco.co.jp/company/network/office/head/headquarter.html>
 (ジヤトコ本社, 静岡県富士市今泉 700-1)
- Banquet Hotel Grand Fuji, <http://www.grandfuji.co.jp>
 (ホテルグランド富士, 静岡県富士市平垣本町 8-1)
- JATCO Dinner Apa Hotel, Fuji-Chuou, http://www.apahotel.com/hotel/toukai/06_fuji-chuou/
 (アパホテル<富士中央>, 静岡県富士市日乃出町 38)

