



Center of Asian  
Safe Mobility Research  
Hiroshima University, Japan



JSPS

Japan Society for the Promotion of Science

## International Symposium on Creation of Safe Mobility Society and International Cooperation

- Organizers** School of Traffic and Transportation, Beijing JiaoTong University (NJTU),  
Center of Asian Safe Mobility Research, Hiroshima University
- Sponsors** JSPS (Japan Society for the Promotion of Science),  
Fukuyama Transportation Co., Ltd.
- Date** December 8, 2008 (Monday)
- Venue** Hong Guo Yuan Hotel, Beijing JiaoTong University

### OUTLINE

With the continual development of the Asian economy and the improvement of the living standard, the traffic safety has been attracting increasing attention among policy makers as well as the citizens. As a result, various countermeasures have been comprehensively taken in various countries towards a safe traffic environment. For instance, in recent years, the number of traffic fatalities in Japan has been reduced to one-third of the record in history. The techniques and measures adopted by the authorities of the Japanese government and their valuable experiences for traffic safety management are worth being utilized by the other Asian countries for reference. Moreover, since the increasing importance has been attached to the traffic safety in USA, the traffic fatalities have been stably controlled to merely about 40,000 annually, despite the huge amount of auto-trips because of its highly developed motorization. In Europe, even the goal of no traffic fatalities has been impressively put forward. In China, traffic safety has been highly recognized by the national and local governments and the people, and as a result the traffic fatalities have been

decreasing in a sustaining manner, due to the various effective measures, such as “Smooth Driving Project”, “Safety Protection Project”, and “Safety Action Plan; however, the total number of traffic fatalities is too big compared with other countries. Accordingly, the traffic safety in China is still a worrying issue.

Under such circumstances, this symposium is held jointly by the National Key Technology R&D Program “Traffic Safety Evaluation and Warning Technologies”, School of Traffic and Transportation, Beijing JiaoTong University, and Center of Asian Safe Mobility Research, Hiroshima University (ASMO Center), and partially sponsored by JSPS (Japan Society for the Promotion of Science) and Fukuyama Transportation Co., Ltd. The aims of this symposium is to discuss the theories, techniques and methods about traffic accident analysis, prevention, warning and evaluation from different perspectives, and to seek for better international cooperation for a safe mobility society.

## PROGRAM

### 09:00-12:30 Plenary Session (the 3rd floor)

09:00 - 9:20 Opening Ceremony Presided by Dr. Junyi ZHANG,  
Assoc. Prof., Hiroshima University

Opening addresses

Beijing Center Director, Hiroshima Univ. Prof. Toshiyuki SATO

Vice-President, NJTU to be decided

Beijing Center Director, JSPS Prof. Hiroshi FUKUNISHI

### 09:20 - 12:30 Session of Keynote Speeches

09:20 - 09:45 Traffic Safety Issues and Policies in Japan  
Prof. Akimasa FUJIWARA, Director of ASMO Center  
Hiroshima University, Japan

09:45 - 10:10 Framework of Road Safety Protection Project in China and its Effects  
Dr. Yong HE, Director of Road Safety Engineering Research Center,  
Research Institute of Highway, Ministry of Communications, China

- 10:10 - 10:25 Tea Break, Photo of Gathering
- 10:25 - 10:50 Traffic Safety Issues and Policies in Korea  
 Dr. Backjin LEE, Research Fellow  
 Korea Research Institute for Human Settlements
- 10:50 - 11:15 Study of Traffic Accidents in Beijing  
 Dr. Jifu GUO, Director, Beijing Transportation Research Center, China
- 11:15 - 11:40 Traffic Safety Issues and Policies in USA  
 Dr. Kyle LIANG, Senior Engineer  
 Department of Transportation, USA
- 11:40 - 12:05 Implementation Framework of “Safe and Smooth Counties of China Roads”  
 and its Effects  
 Prof. HuaPu LU, Tsinghua University, China
- 12:05 - 12:30 Traffic Safety Measures on the Roads with Successive and  
 Long Downward Slopes in China  
 Prof. HaoXue LIU, ChangAn University, China
- 12:40 - 14:20 Lunch
- 14:30 - 17:20 Parallel Sessions**
- Parallel Session (1) Methodologies of Traffic Safety Research (the 3rd floor)**  
 Presided by Prof. Mitsuo HAYASHI, Vice-Director of ASMO  
 Center, Hiroshima University, and  
 Prof. YiBing LI, Tsinghua University
- 14:30 - 14:50 A Decision Support System for Traffic Safety Evaluation  
 RuiMin LI, Tsinghua University
- 14:50 - 15:10 Traffic Safety Evaluation/Warning Technologies and Methods  
 Xi ZHU, Chinese People’s Public Security University
- 15:10 - 15:30 Short-Time Transient Sleep for Preventing the Traffic Accidents  
 Due to Falling Asleep at the Wheel  
 M. HAYASHI, Hiroshima University

- 15:30 - 15:50      Characteristics of the Vehicle-Related Traffic Accidents in China  
YiBing LI, Tsinghua University
- 15:50 - 16:00      Tea Break
- 16:00 - 16:20      Development of a Deterministic Traffic Signal Control System for  
Urban Road Network  
Hikaru SHIMIZU, Masaaki KOBAYASHI, Fukuyama University  
Haruko FUJII, Yuge National College of Marinetime Technology
- 16:20 - 16:40      Evaluation of the Effects of In-Vehicle Real-Time Traffic Safety  
Warning Information  
Wonchul KIM, J. ZHANG and A. FUJIWARA, Hiroshima University
- 16:40 - 17:00      An Integrated Model of Traffic Safety Evaluation  
YiBing LI, Tsinghua University
- 17:00 - 17:20      A Simultaneous Modeling of Injury Severity and Collision Type  
Focusing on National Highway Intersections in Japan  
J. ZHANG, A. FUJIWARA, Hiroshima University  
M.A.H. PATWARY, Roads and Highways Department, Bangladesh
- 14:30 - 17:20      Parallel Sessions**
- Parallel Session (2)      Traffic Safety Technologies and Policies (the 2nd floor)**  
Presided by Prof. A. FUJIWARA, Director of ASMO Center,  
Hiroshima University, and  
Prof. ChunFu SHAO, Beijing JiaoTong University
- 14:30 - 14:50      Analysis of Factors Causing Traffic Accidents on the Expressways in  
Chogoku Region of Japan based on a Statistical Model  
H. SHIMAMOTO, J. ZHANG, A. FUJIWARA, Hiroshima University  
Yasuhiro KUSUHASHI, NEXCO
- 14:50 - 15:10      Characteristics of Fatal Traffic Accidents in China  
JunLi WANG and SheQiang MA  
Chinese People's Public Security University

- 15:10 - 15:30 Characteristics of Traffic Accidents on Hanshin Expressways and their Countermeasures  
Noriyuki INOUE and Teruo FUJIOKA, Fukuyama University
- 15:30 - 15:50 An Indicator System for Traffic Safety Evaluation  
ChunFu SHAO and ZhuangLin MA, Beijing JiaoTong University
- 15:50 - 16:00 Tea Break
- 16:00 - 16:20 Experimental and Computational Investigations for the Development of New TRIP Steel with the Higher Impact Energy Absorption Characteristic  
Takeshi IWAMOTO, Toshiyuki SAWA, Hiroshima University
- 16:20 - 16:40 Effects of a Warning Information System on Reducing Traffic Accidents Based on a Social Experiment in Hiroshima  
A. FUJIWARA, J. ZHANG, Hiroshima University  
Koji SUTO, Chuden Engineering Consultants Co., Ltd.
- 16:40 - 17:00 Installation of Local Road Signs Based on Visibility and Traffic Safety  
BiYing YU and ZhuangLin MA, Beijing JiaoTong University
- 17:00 - 17:20 Prediction and Prevention of Traffic Accidents  
JianHua YUAN, Traffic Management Research Institute,  
Ministry of Public Security
- 17:25 - 17:35 Closing ceremony**  
Closing addresses  
School of Traffic and Transportation, NJTU      Prof. ChunFu SHAO  
Fukuyama Transportation Co. Ltd.              CEO Shigehiro KOMARU

## LANGUAGE

Formal language is English, in principle. Interpreters are available for those speaking Chinese.

## DEADLINE FOR PAPER SUBMISSION

December 1, 2008

# TECHNICAL TOUR AFTER SYMPOSIUM

After the symposium, a technical tour is prepared for the participants from Japan to visit the traffic safety facilities on the BADALING Expressway with successive and long downward slopes in the morning of December 9.

## INQUIRY

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## VENUE

