

16th International Conference

Road Safety on Four Continents

Beijing, China, 15-17 May 2013

Program



vti

Swedish National Road and
Transport Research Institute



交通运输部公路科学研究院

Research Institute of Highway
Ministry of Transport



BEIJING UNIVERSITY OF TECHNOLOGY
Beijing University
of Technology



The Swedish National Road and Transport Research Institute (VTI), together with the Research Institute of Highway (RIOH), and the Transportation Research Center at Beijing University of Technology, and with support of the Ministry of Transport of the People's Republic of China, have the pleasure of welcoming you to the 16th international conference "Road Safety on Four Continents" in Beijing, China 15-17 May 2013.

Deaths and personal injuries in traffic have been one of the largest global health problems for a long time. Every 30 seconds a person is killed in a road crash – more than 3,000 per day – and almost 1.2 million people per year die in road crashes worldwide. As many as 50 million people are injured. More than 85 per cent of the road traffic deaths and injuries occur in low income and middle income countries. This is the extent of the global road safety problem.

"Road Safety on Four Continents" is one of the premier and prestigious conferences in the road safety area. The conference in Beijing will be the 16th in a series of conferences starting in 1987 with emphasis on two continents, Europe and North America and later on organized also in Africa and Asia including four continents. However, the organisers have welcomed participation from other continents and a great number of delegates from South America and Australia have participated.

China will be a key player for the future global automotive market and is the fastest growing market in this respect. With the growing motorization come the negative effects of transport. Road safety has in recent years become a top priority in China and it is with great satisfaction this RS4C conference is organized together with partners and supporters for the first time in China.

This conference will be an important event, which allows experts, decision makers, practitioners and other delegates with an interest in road safety development to come together in fruitful discussions and exchange of information in all different aspects of Road Safety. It will be a meeting place and during these days we will share results and experience between organisations, countries, continents and most important between people.

Kent Gustafson
Chairman Scientific Committee

Workshop

Sharing Road Safety – International Workshop in Scientific Safety Estimation

Co-sponsors: Research Institute of Highway of China, Beijing University of Technology, ITF/OECD, TRB, VTI

09.00-12.00 Morning Session: Highway Safety Manual Development and Deployment

Presenters: Karen Dixon and John Milton

- Overview of HSM
- HSM Applications
- Ongoing R&D supporting HSM

14.00 -17.00 Afternoon Session: International Sharing and Collaboration

International Transport Forum (ITF) Work on Sharing Road Safety
Stephen Perkins, ITF/OECD

Research Framework proposed by ITF
Blair Turner, Australia

Country/Region Experiences
China , Zhou Ronggui, RIOH
Australia, Blair Turner, Australia
Europe, Harri Peltola, Finland

International Efforts
FHWA/FEHRL Collaboration, Blair Turner, Australia
iRAP, Greg Smith

Potential for International Collaboration,
Panel Discussion
Moderator: Xiaoduan Sun, United States
Blair Turner, Australia
Karen Dixon, United States
Laurent Carnis, France
Greg Smith, iRAP

What's Next?
Workshops: Washington, DC (January 2014);
Paris, France (April 2014); Vancouver, Canada
(June 2015)
Blair Turner

TRB Subcommittee on International Safety Research
Karen Dixon

Committees and chairmen

Organising committee

- Chairman Prof. Zhou Wei, President of RIOH, China
- Vice Chairman Kent Gustafson, Deputy Director General of VTI, Sweden
- Kaimin Niu, RIOH, China
- Ronggui Zhou, RIOH, China
- Chengcheng Tang, RIOH, China
- Gaoqiang Zhang, RIOH, China
- Bin Shu, RIOH, China
- Yan Guo, RIOH, China
- Ying Jiang, RIOH, China
- Xiaoduan Sun, Beijing University of Technology, China
- Yanyan Chen, Beijing University of Technology, China

Scientific committee

Kent Gustafson, Chairman	VTI	Sweden
Zhou Wei	Director of RIOH	China
Xiaoduan Sun	University Of Louisiana	China/USA
Wang Xiaojing	RIOH	China
Gao Hailong	RIOH	China
Li Aimin	RIOH	China
Li Bin	RIOH	China
Zhou Ronggui	RIOH	China
Tang Chengcheng	RIOH	China
Liu Huixue	RIOH	China
Guo Zhongyin	The School of Transportation Engineering, Tongji University	China
Liu Haoxue	Chang'an University	China
Wang Changjun	Traffic Management Research Insititute	China
Yanyan Chen	Beijing University of Technology	China
Yulong He	Beijing University of Technology	China
Rong Jian	Beijing University of Technology	China
Liu Xiaoming	Beijing Municipal Commission of Transport	China
Alberto José Silveira	Luchemos por la vida	Argentina
Mary Lydon	University of Adelaide	Australia
Michael Tziotis	AARB	Australia
Georg Hauger	Technical University of Vienna	Austria
Peter Silverans	Belgian Road Safety Institute	Belgium
Michael Lenné	MUARC	Australia
Bhagwant Persaud	Ryerson University	Canada
Karel Pospisil	CDV - Transport Research Centre	Czech Republic
Juha Luoma	VTT	Finland
Laurent Carnis	INRETS	France
Horst Schultze	Bast	Germany
George Giannopoulos	Hellenic Institute of Transport	Greece
Evangelos Bekiaris	CERTH/HIT	Greece
Péter Holló	KTI	Hungary
Tuenjai Fukuda	Nihon University	Japan
Atsushi Fukuda	Nihon University	Japan
Terje Assum	TØI	Norway



Fridulf Sagberg	TØI	Norway
Rune Elvik	TØI	Norway
Joanna Zukowska	Gdansk University of Technology	Poland
João Cardoso	LNEC	Portugal
Ho Seng Tim	LTA	Singapore
Pieter Venter	ITSE	South Africa
András Várhelyi	Lund University	Sweden
Anna Vadeby	VTI	Sweden
Björn Peters	VTI	Sweden
Åsa Forsman	VTI	Sweden
Astrid Linder	VTI	Sweden
Robert Thomson	VTI	Sweden
Jan Andersson	VTI	Sweden
Magnus Hjalmdahl	VTI	Sweden
Nils Petter Gregersen	VTI	Sweden
Yaser Hawas	UAE University Al-Ain	UAE
Richard Cuerden	TRL	United Kingdom
Richard Pain	TRB	USA
Karl Kim	University of Hawaii	USA
Michael Griffith	FHWA	USA
Mohamed Abdel-Aty	University of Central Florida	USA
Kohinoor Kar	Arizona DOT	USA
Azim Eskandarian	The George Washington University	USA
Kenneth Opiela		USA

Registration 08.00 - 09.00



Opening Ceremony

09.00-10.00

Welcome addresses

Chairman: Mr. ZHANG Jinquan, vice-president of RIOH, China

Mr WENG Mengyong, Deputy Minister of Ministry of Transport (MOT), China

Mrs Ingela Bendrot, State Secretary to the Minister for Infrastructure, Ministry of Enterprise, Energy and Communications, Sweden

Prof. ZHOU Wei, President of RIOH, China

Mr Jonas Bjelfvenstam, Director General, VTI, Sweden

Prof. Ailin Zhang, Vice-President, Beijing University of Technology, China

Coffee 10.00 - 10.30

Plenary Session

10.30-12.00

Chairman: Mr. ZHANG Jinquan, vice-president of RIOH

History and Development of Road Safety in China

Prof. Zhou Haitao, Chief Engineer, Ministry of Transport (MOT), China

Key note speech

Dr Stephen Perkins, Head of the Transport Research Centre International Transport Forum, France

Key note speech

Dr Margie Peden, Coordinator, Unintentional Injury Prevention WHO

Key note speech

Prof. Xiaojing Wang, Chief Engineer, RIOH, China

Lunch 12.00-13.30

Session 1	Session 2	Session 3
<p>13.30-15.00 Road safety plans and strategies</p> <p>Chairman: Laurent Carnis, IFSTTAR, France</p> <p>Vision Zero a policy innovation – From Vision to Reality Christer Löfving, Swedish Transport Administration, Sweden</p> <p>Forecasting the Public Health Effect of a National Road Safety Programme Stefan Siegrist, Swiss Council für Accident Prevention bfu, Switzerland</p> <p>Road Safety Within the “Integrated System of Transport Safety” Lech Michalski, Gdansk University of Technology, Poland</p> <p>Linking the Fifth Pillar to the First in the UN Decade of Action Mark King, Queensland University of Technology, Australia</p> <p>SNIP2 – A Tool for Developing a Strategic Safety Improvement Plan by Multiple Agencies Andrew P. Tarko, Purdue University, USA</p>	<p>13.30-15.00 Speed management</p> <p>Chairman: Xiaoduan Sun, Beijing University of Technology, China</p> <p>Speed Adaption Control by Self-Explaining roads. SPACE Leif Sjögren, VTI, Sweden</p> <p>Engineering Based Measures to Manage Speeds on Rural Roads Blair Turner, ARRB Group Ltd, Australia</p> <p>Speed Management in Sweden: Evaluation of a New Speed Limit System Anna Vadeby, VTI, Sweden</p> <p>Using Variable Speed Limits to Reduce Rear-End Collision Risks Near Recurrent Bottlenecks Zhibin Li, Southeast University, China</p> <p>Perceptual Pavement Markings and Their Application Li Chang-cheng, Beijing University of Technology, China</p>	<p>13.30-15.30 GRSF and World Bank session I</p> <p>Sharing solutions for transitioning economies</p> <p>Welcome and Opening Addresses: Setting the Context</p> <ul style="list-style-type: none"> • Global Road Safety Facility • The World Bank • Research Institute of Highways <p>Roundtable Panel: Sharing Solutions for Transitioning Economies</p> <ul style="list-style-type: none"> • Scale of injury and risk factors • National policy goals – similarities and divergences • Coordinated response mechanisms at central, state and local level • Where are the low-hanging fruit? <p>Deputy Director, State Administration for Work Safety, China</p> <p>Prof. Dinesh Mohan, India Institute of Technology, India</p> <p>Ms. Le Minh Chau, Deputy Director, Department of Traffic Safety, Vietnam</p> <p>Mr. Djoko Murjanto, Director General, Directorate General of Highways, Indonesia</p> <p>Moderated by Mark Lundell, Sector Manager, the World Bank</p>

Session 4	Session 5	Session 6
<p>16.00-17.30 Road safety plans and strategies II</p> <p>Chairman: Richard Krystek, Motor Transport Institute, Poland</p> <p>Road Safety Observatories – an Element of Systemic Road Safety Action on the Example of the Polish Region of Warmia and Mazury Joanna Zukowska, Gdansk University of Technology, Poland</p> <p>Road Safety Knowledge Exchange and Capacity Building Between China and Australia Ann Yuan, Global Road Safety Partnership, China</p> <p>Road Safety Management Tools at Country Strategic Level Kazimierz Jamroz, Gdansk University of Technology, Poland</p> <p>Is Cycling a Safe Mode? Comparing Apples with Apples Dr Glen Koorey, University of Canterbury, New Zealand</p>	<p>16.00-17.30 Crash recording systems and black spot evaluation</p> <p>Chairman: Horst Schulze, Federal Highway Research Institute, Germany</p> <p>Identifying Black Spots Using Property Damage Only Equivalency (PDOE) Factors Simon Washington, Queensland University of Technology, Australia</p> <p>Motor Vehicle Crashes Registered by Casualties' Place of Accidence or Place of Residence. Urban and Rural Differences in Norway. Stig H. Jørgensen, Norwegian University of Science and Technology (NTNU), Norway</p> <p>Fatal Motorcycle Collisions in Malaysia, 2007-2011 Jennifer Oxley, Monash University Accident Research Centre (MUARC), Australia</p> <p>Comparing Police- and Health Authority-based Road Traffic Injury Surveillance Systems in Ulaanbaatar, Mongolia Celestin Karamira, Royal Tropical Institute Amsterdam, Germany</p> <p>Urban Road Accidents in Dhaka, Bangladesh Ishtiaque Ahmed, University Technology Malaysia (UTM), Malaysia</p>	<p>16.00-17.30 GRSF and World Bank session II</p> <p>The International Road Assessment Program (iRAP) Rob McInerney, CEO, iRAP</p> <p>Building ChinaRAP Greg Smith, Regional Director, iRAP Asia Pacific</p> <p>ChinaRAP case studies Zhang Tiejun, Senior Engineer, Research Institute of Highway (RIOH), Ministry of Transport</p> <p>Wrap up and conclusions Global Road Safety Facility</p>

19.00 Conference Dinner

GRSF and World Bank session no. 3 and 6

The World Bank, through the Global Road Safety Facility (GRSF), is fully committed to the objective of significant and sustained reductions in road traffic injuries, through activities designed to accelerate and scale-up the efforts of low and middle-income countries to build their technical and managerial capacities, implement cost-effective road safety programs and meet their commitments under the UN Decade of Action for Road Safety.

As part of the 16th edition of “Road Safety on Four Continents”, held for the first time in the world’s most populated country, the Global Road Safety Facility will be hosting an international session on injury risk factors & mitigating measures adapted to the context and dynamics of rapidly transitioning economies.

Adopting a shared framework

The Asia-Pacific region includes some of the world’s fastest growing and largest emerging market economies, accounting for almost 50% of the global increase in cars in circulation. With rapidly expanding vehicle fleets and unprecedented road network investments, the region will be instrumental in reaching the overall goals of the UN Decade of Action 2011-2020.

Asian economies stand at a crossroads as they seek to avert the road injury carnage that so often accompanies economic growth; both by applying well documented practices and by developing innovative and country-appropriate responses. With many commonly shared challenges, Asian economies have a real opportunity to share good practices and learn from each other.

Target audience

This session is of particular interest to delegates representing road safety agencies, public works departments, transport research institutes and industry with a stake in the international knowledge-sharing agenda.

Structure & expected outcomes

The session will elicit a multi-country review of road traffic injury risk factors prevailing in rapidly transitioning economies and the potential offered by policy responses and engineering measures, drawing on the findings of recent road assessment programs funded by the World Bank. Guest panellists will discuss what improvements need to be made both at country level and within the international collaboration framework to ensure good practices are adopted much faster than today.

trans
guide

Questions about transport research?

BIC has the answers

The VTI Library and Information Centre (BIC) has the responsibility for providing and disseminating information and knowledge within the area of transport research in Sweden. As a part of this responsibility, BIC runs and develops Transguide, a website where much of the information is exposed. The contents are quality checked, and the structure is designed to help you quickly find what you are looking for.

We are looking forward to your feedback!



VISIT US ON THE WEB
www.transguide.org
www.vti.se/en/bic



CONTACT
bic@vti.se
 + 46 13-20 43 31

TRID the TRIS and ITRD Database

- Combines the records from TRB’s TRIS database and the OECD’s Joint Transport Research Centre’s ITRD database
- Covers all modes and disciplines of transportation
- Contains more than one million records
- Gives access to more than 90,000 full-text documents
- Is available free of charge



TRID
 the TRIS and ITRD database

<http://trid.trb.org>

Session 7	Session 8	Session 9
<p>08.30-10.00 Traffic engineering innovations including road design</p> <p>Chairman: Blair Turner, ARRB Group Ltd, Australia</p> <p>Building Chinarap Greg Smith, iRap, Australia</p> <p>A Road Safety Approach For a New Revision of the Portuguese Design Guidelines António LEMONDE de Macedo, LNEC, Portugal</p> <p>Innovative Intersection Designs Better Aligning with Safe System Nimmi Candappa, Monash University Accident Research Centre (MUARC), Australia</p> <p>Level of Service of Safety Graded Quantitative Research for Low-Grade Highway Sections Lizhen Du, Beijing University of Technology, China</p> <p>Severe Traffic Crash Speaks: Safety Facts from Mountain Roads in China Han Hu, RIOH, China</p>	<p>08.30-10.00 Road user behaviour I</p> <p>Chairman: Yanyan Chen, Beijing University of Technology, China</p> <p>What Motivates Drivers to Disobey Traffic Regulations and How Can We Change This Behaviour? Sonja Forward, VTI, Sweden</p> <p>Demographic and Socioeconomic Factors Associated with Traffic Crash Involvement in Florida Mohamed Abdel-Aty, University of Central Florida, USA</p> <p>Accidents Risk and Road Safety Among Immigrants in Norway Terje Assum, Institute of Transport Economics - TØI, Norway</p> <p>Pedestrian Crashes During Jaywalking. Can We Afford to Overlook? Jaisung Choi, The University of Seoul, South Korea</p> <p>Genomewide association study on fallible behavior of accident-repeated drivers in China Huiqing Jin, Anhui Sanlian University, China</p>	<p>08.30-10.00 Economic issues, enforcement and emergency traffic</p> <p>Chairman: Andrew Tarko, Purdue University, USA</p> <p>Social Costs of Road Crashes: an International Analysis Wim Wijnen, W2 Economics/SWOV Institute for Road Safety Research, Netherlands</p> <p>Automated Enforcement, Get It Right, Make It Safe Philip Wijers, GATSO, Netherlands</p> <p>Programming Police Enforcement in Highway Work Zones Erdong Chen, Purdue University, USA</p> <p>Methods of Emergency Traffic Organization, Taking Boshen Highway As An Example Pengpeng Jiang, RIOH, China</p>

Coffee 10.00-10.30

Session 10	Session 11	Session 12
<p>10.30-12.00 Traffic engineering innovations including road design and geometry and behavioural issues</p> <p>Chairman: Simon Washington, Queensland University of Technology, Australia</p> <p>Top-level Design Plan of Operation Surveillance on National Highway System Yan Wang, MOT, China</p> <p>A Driving Simulator Evaluation of Road Markings and Symbolic Signs on Vehicle-Pedestrian Conflicts. Radhameris A. Gomez, University of Massachusetts, USA</p> <p>Research on Setting of At-Grade Pedestrian Crossing Facilities in Shenzhen, China Keman Wu, RIOH, China</p> <p>Proposal of Integrations to the Italian Road Regulation on Cycle Mobility: Learning from Foreign Best Practices Michele Pezzagno, University of Brescia, Italy</p> <p>Research on Cyclists Microscopic Behavior Models at Signalized Intersection Jiang Haifeng, RIOH, China</p>	<p>10.30-12.00 Road user behaviour II</p> <p>Chairman: Nils Petter Gregersen, VTI, Sweden</p> <p>Discussion of Methods for Driver Behaviour Oriented Road Safety Prof. Shouen Fang, University of Tongji, China</p> <p>Characteristics of Chinese Drivers Attending a Mandatory Training Course Following Licence Suspension Dr Judy Fleiter, Centre for Accident Research and Road Safety-Queensland (CARRS-Q), Australia</p> <p>Driver Style and Driver Skill-Clustering Sub-Groups of Drivers Differing in Their Potential Danger in Traffic Laila Martianne Martinussen, Technical University of Denmark, Denmark</p> <p>Towards a Cognitive Assessment of Senior Drivers' Fitness to Drive Michael Hull, Pan Pacific Research Pty Ltd, Australia</p> <p>Eliminating the Manual Interference in Driving License Test Srinivas Puppala, Government of Andhra Pradesh, India</p>	<p>10.30-12.00 Rural safety, preventive safety measures, audits</p> <p>Chairman: Greg Smith, iRap, Australia</p> <p>Risk of Accidents During Darkness on Roads with Different Technical Standards Mariusz Kiec, Cracow University of Technology, Poland</p> <p>Contributing Factors Regarding Wrong-Way Crashes on Illinois Freeways Hugo Zhou, Southern Illinois University, USA</p> <p>Road Safety Inspections - The Audit of Roads in Operation As an Addition for More Detailed Review of the Traffic Situation at Road Network Klaus Habermehl and Jürgen Follmann, Darmstadt University of Applied Sciences, Germany</p> <p>The Practice of Road Safety Audit on Expressways in China Wu Hongbo, RIOH, China</p> <p>Road Safety Techniques under Adverse Weather Conditions Changcheng Li, RIOH, China</p>

Session 13	Session 14	Session 15
<p>13.30-15.00 Modelling and evaluation techniques</p> <p>Chairman: Bhagwant Persaud, Ryerson University, USA</p> <p>Calibrating VISSIM Roundabout Model using a Critical Gap and Follow-up Headway Approach Zhixia Li, University of Wisconsin, USA</p> <p>Developing Safety Performance Functions for a Mountainous Freeway Mohamed Abdel-Aty, University of Central Florida, USA</p> <p>Predicting Drivers' Future Crash Risk Based-on Their Crash History Xiaoduan Sun, University of Louisiana, USA</p> <p>Occupant Diversity in Modelling and Evaluation Related to Soft Tissue Neck Injuries in Low Severity Impact Astrid Linder, VTI, Sweden</p> <p>User Cost Estimation on Road Networks by Means of Bayesian Probabilistic Networks Markus Deublein, Swiss Federal Institute of Technology, Switzerland</p>	<p>13.30-15.00 Distraction and alcohol related adverse effects on driving</p> <p>Chairman: Terje Assum, Institute of Transport Economics - TØI, Norway</p> <p>Driver Attention is Captured by Roadside Advertising Signs Lene Herrstedt, Trafitec, Denmark</p> <p>Designing Evidence-Based Guidelines for the Safe Use of Digital Billboard Installations: Experience and Results from Australia Paul Roberts, ARRB Group, Australia</p> <p>Don't Drink and Drive Work Towards Young People Helena Hellsten, Helsäker Konsult AB, Sweden</p> <p>Reducing Alcohol-Related Driving on China's Roads: Traffic Police Officers' Perceptions and Practice Keqin Jia, Queensland University of Technology, Australia</p> <p>Alcohol- and Drug-Related Fatal Accidents in Sweden: Where Do They Occur? Susanne Gustafsson, VTI, Sweden</p>	<p>13.30-15.00 Vehicle safety, urban and work zone safety</p> <p>Chairman: Karel Pospisil, CDV - Transport Research Centre, Czech Republic</p> <p>Writing a Handbook of Vehicle Safety Measures Eryong Liu, Autoliv Research, China</p> <p>An Assessment on the Effectiveness of Traffic Calming Markings (TrCM) and Alternative for Speed Regulating Strips Joshua Ng Yew Wei, Land Transport Authority, Singapore</p> <p>Impacts of Cross-Sectional Elements (Median Configurations and Bicycle Lanes) At Urban Arterial Driveway Locations Yanfen Zhou, Oregon State University, USA</p> <p>Influence of Red Motorcycle Box to the Traffic Conflict and Traffic Flow at the Ahmad Yani-Laswi Signalized Intersection Agah Muhammad Mulyadi, Institute of Road Engineering, Indonesia</p> <p>Safety Evaluation of Work Zone Including Its Technologies Using Stochastic Microsimulation Essam Radwan, University of Central Florida, USA</p>

Session 16	Session 17	Session 18
<p>16.00-17.30 Modelling and evaluation techniques II</p> <p>Chairman: Mohamed Abdel-Aty, University of Central Florida, USA</p> <p>Development of Surrogate Measures for Crash-Based Safety Estimation Bhagwant Persaud, Ryerson University, USA</p> <p>Safety Performance Models for Pedestrians and Bicyclists Thomas Jonsson, Lund University, Sweden</p> <p>Investigating Different Road Safety Implications of two TDM Policy Measures: Fuel-Cost Increase and Teleworking Yongjun Shen, Transportation Research Institute (IMOB), Hasselt University, Belgium</p> <p>A Novel Approach for Diagnosing Road Safety Issues using Automated Computer Vision Techniques Tarek Sayed, University of British Columbia, Canada</p> <p>Inter-national Benchmarking of Road Safety: State of the Art Yongjun Shen, Transportation Research Institute (IMOB), Hasselt University, Belgium</p>	<p>16.00-17.30 Distraction and behavioural effects on driving</p> <p>Chairman: Georg Hauger, TU Wien, Austria</p> <p>Analysis of Risk Perception and Behaviour for Vulnerable Groups Prof. Yanyan Chen, Beijing University of technology, China</p> <p>Driver Reactions to Horn and Headlight Warnings in Critical Situations – A Simulator Study Jonas Jansson, VTI, Sweden</p> <p>Dangerous Use of Mobile Phones and Other Communication Devices While Driving – a Toolbox of Countermeasures Nils Petter Gregersen, VTI, Sweden</p> <p>Study of Behaviour of Two Wheeler Drivers towards Helmet Wearing, Talking on Cell Phone while Driving and Driving with Many Pillion Riders Dr. Poonam Mittal, Uka Tarsadia University, Bardoli. Gujarat, India</p>	<p>16.00-17.30 Safety management techniques</p> <p>Chairman: Dr. Hailong Gao, RIOH, China</p> <p>Implementing the Safe System Approach to Road Safety: Some Examples of Infrastructure Related Approaches. Blair Turner, ARRB Group Ltd, Australia</p> <p>Situations and Challenges of Road Safety in China Li Yaning, RIOH, China</p> <p>A Comparative Study of the Application of the Standard Kernel Density Estimation and Network Kernel Density Estimation in Crash Hotspot Identification Yue Tang, University of Massachusetts Amherst, USA</p> <p>Study of Influence of Barriers on Visibility of Two-Way Highways Ana Paula C Larocca, University of São Paulo, Brazil</p> <p>Vulnerable Road Users (VRUs) Safety in Bangladesh Mohammad Faizus Salehin, Bangladesh University of Engineering and Technology (BUET), Bangladesh</p>

Session 19	Session 20	Closing Session
<p>08.30-10.00 School and child safety</p> <p>Chairman: Sonja Forward, VTI, Sweden</p> <p>Creating Sustainable Community Partnerships to Promote Road Safety in Schools. Case study: Fit To Drive (f2d). Graham Spencer, RMIT University, Australia Kerry Montero, GSC Partners, Australia</p> <p>Is ITS The Solution to Creating a Safe City Environment for Children? Lars Leden, VTT, Finland Per Gårder, University of Maine, USA</p> <p>Drivers' Intention to Comply with the Speed Limit in School Zones in Malaysia Mark King, CARRS-Q, Australia</p> <p>Road Safety school – How We Work with Schools and Traffic in Malmö, Sweden Lotta Cederfeldt, Streets and Parks Department, City of Malmö, Sweden</p>	<p>08.30-10.00 Health issues and fleet safety</p> <p>Chairman: Joanna Zukowska, Gdansk University of Technology, Poland</p> <p>Physical Impairment and Medical Care Spending by Road Accident Victims Laurent Carnis and Hamza Achit, IFSTTAR, France</p> <p>Post Accident Care in Poland Ryszard Krystek, Motor Transport Institute, Poland</p> <p>Safedrive Medical: Assessing Fitness to Drive Patricia Gayle Williams, VicRoads, Australia</p> <p>Exposure Work Commuting: Case Study Among Commuting Accident in Klang Valley, Malaysia Nurulhuda Jamaluddin, Malaysian Institute of Road Safety Research-MIROS, Malaysia</p>	<p>10.30-11.30 Closing of the 16th RS4C conference</p> <p>Chairman: Mr. NIU Kaimin, RIOH, China</p> <p>Chinese Summary Mr. ZHOU Ronggui, RIOH, China</p> <p>International Summary SUN Xiaoduan, Beijing University of Technology, China</p> <p>Chairman's Summary Kent Gustafson, VTI, Sweden</p>

Coffee 10.00-10.30

Lunch 12.00-13.00

Tour alternative 1

Beijing Proving Ground - BJPG

Proving Ground for Highway and Traffic, the Ministry of Transport (for short “Beijing Proving Ground” or “BJPG”) belongs to Research Institute of Highway, the Ministry of Transport and invested in by the Ministry of Transport.

BJPG is an integrated proving ground for automotive engineering, highway engineering and traffic engineering, with locations is in Tong Zhou Qu, Da Du She Xiang - 28 km away from downtown Beijing.

The total area is 2,4 km² and includes a full scale crash test laboratory, high speed track, horizontal straightway, different friction coefficient test roads, and more.



Tour alternative 2

Traffic Engineering Laboratory of Beijing University of Technology

Being continuously invested in for more than twenty years, the first-ever funded traffic engineering laboratory in China, Traffic Engineering Laboratory of Beijing University of Technology, has become a world-leading open laboratory in traffic engineering field from its initial state in which it had only a few simple equipments, such as air pressure cube flow detectors, radar speed meters, counters and stopwatches.

The laboratory currently comprises seven highly specialized research laboratories covering the areas of traffic safety, traffic planning, traffic simulation, traffic control, driving behavior, traffic information, intelligent transportation and road engineering.



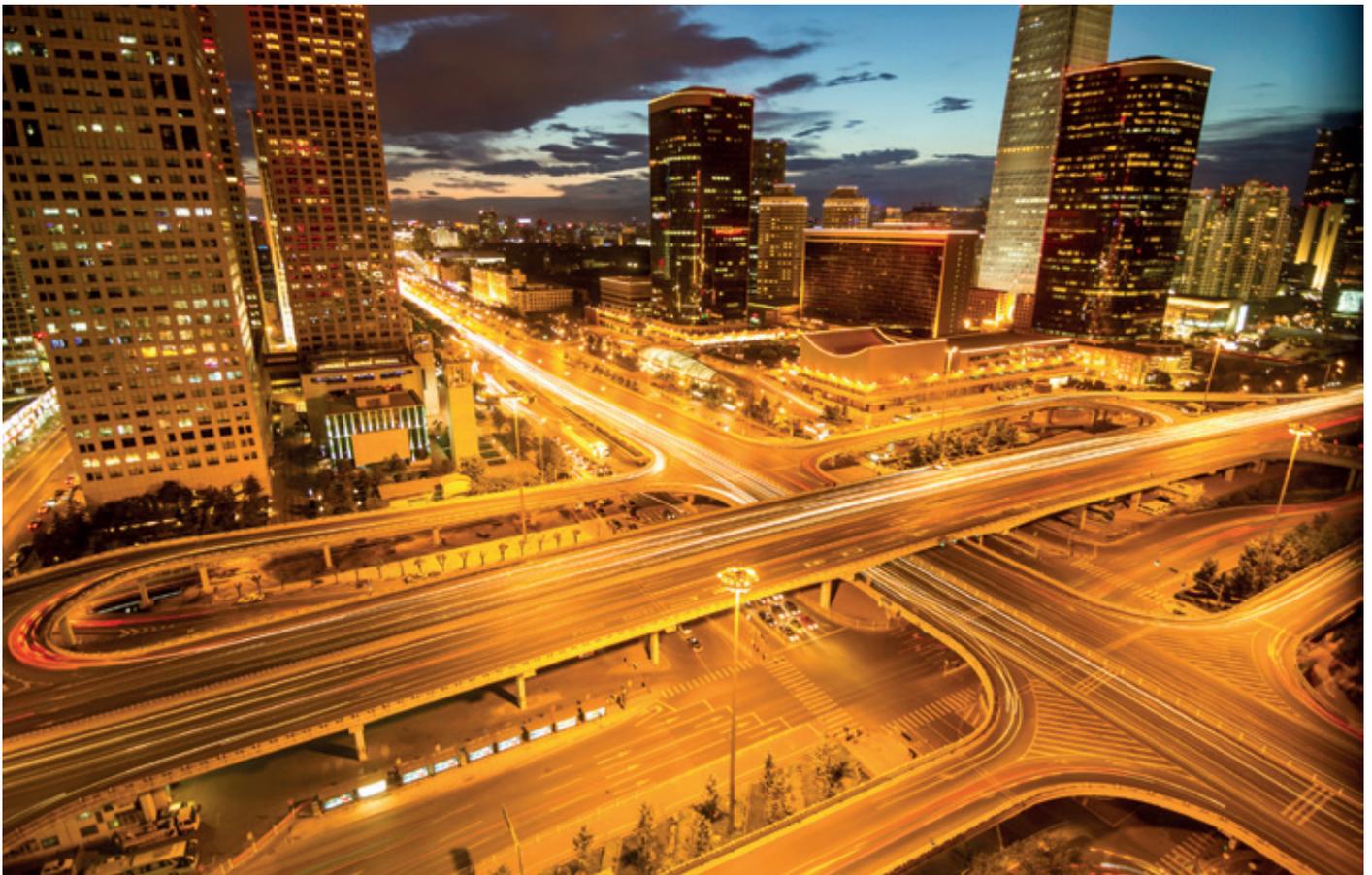
TOCC

Beijing Municipal Transportation Operations Coordination Center (TOCC) aims to establish the normalized coordination and management system for the integrated transportation, promote the operation efficiency and service of Beijing transportation system, strengthen the capability for traffic safety, emergency management and disaster prevention and mitigation, alleviate traffic congestion and provide better service for travelers.

TOCC accommodates four centers: the authoritative, comprehensive and real-time traffic data center, the monitoring and warning center for transportation operation, the operation coordination center for multi-mode transportation and the traffic information publication center. TOCC provides service for government policy, industry supervision, enterprise operation and people travel.

Poster Presentations

Interior Tunnel Design and Traffic Safety Aspects	Christofer Patten, VTI, Sweden
Study on Character of Fatal Traffic Crashes in China	Chuanjiao Sun, RIOH, China
Relationship Between Speed and Lateral Position on Curves	Shauna Hallmark, Iowa State University, USA
UN Decade of Action for Road Safety in the National Road Safety Strategy Until 2020 – Polish Approach	Lech Michalski, Gdansk University of Technology, Poland
Visibility – To Be Seen Or Not being Seen – That Is the Difference...	Lotta Cederfeldt, Streets and Parks Department, City of Malmö, Sweden
Findings of the Follow-up Survey - GRSI Beijing Project of Improving Vulnerable Road User Safety at Junctions	Ann Yuan, Global Road Safety Partnership, China
Crash Fatality Risk Differences Between Access and Non-Access Controlled Highways in Pakistan: A Low-income Country	Irshad Ali Sodhar, National Highways & Motorway Police, Pakistan
Developing Hierarchical Bayesian Safety Performance Functions Using Real-Time Weather and Traffic Data	Mohamed Abdel-Aty, University of Central Florida, USA
Accidents Analysis and Safety Enhancement Methods – Base on Provincial Highway S213 (from Guanling County to Xingren County) in Guizhou Province	Chao Sui, RIOH, China
Comparison of Field Speed Data Collection Methods	Chai Hua, RIOH, China
Chinese Rural Road Traffic Safety Characteristics Analysis and Traffic Safety Countermeasures	Chen Yu, RIOH, China



Poster Presentations

Cause Analysis of Traffic Crashes Black Spots on Highway Long Steep Downgrades in China	Jiao Chengwu, RIOH, China
Effects of Roadway Segment Alignments and Locations on Rural Two-Lane Highway Crash Rates	Li Jinhai, RIOH, China
Design Methods for Safety Enhancement Measures on Long Steep Downgrades	Jun-Hong Liao, RIOH, China
Speed Control Effect Study on Optical Illusion Deceleration Markings	Jingmei Wu, RIOH, China
Highway Traffic Accident Causes Analysis Based on Expert Investigation and Statistics Analysis Method	Xu Nuo, RIOH, China
In-Service Performance Evaluation of Freeway Barriers in Guangdong Province, China	Manjuan Yang, RIOH, China
A Study on the Traffic Organizations of Ring Road Expressways Under Emergency Situation	Nale Zhao, RIOH, China
Study on the Safety Length of Acceleration and Deceleration Lane of Left-Side Ramp on Freeway	Zhou Jin, Highway Bureau of Transport Department of Jiangsu Province, China
Fault Diagnosis on the Highway Surveillance and Control System Based on Petri Net Model	Zhu Li-Wei, RIOH, China
Research on the Technology for Safe Operation and Management of Alpine Cold and High-Altitude Highway	Huang Yong, Xinjiang Institute of Transportation Sciences, China

resqmeTM
When seconds count...

锐救
分秒必争...

Together we can save more lives.



**THE ORIGINAL
KEYCHAIN
CAR ESCAPE TOOL**

www.resqme.com/RS4C



Organisers



VTI
SE-581 95 Linköping,
Sweden

Tel: +46 13 20 40 00
E-mail vti@vti.se
www.vti.se

VTI, the Swedish National Road and Transport Research Institute, is an independent and internationally prominent research institute in the transport sector. The Institute is a government agency under the Swedish Government.

VTI's principal task is to conduct research and development related to infrastructure, traffic and transport. We work with all modes of transport and the fields of pavement technology, infrastructure maintenance, vehicle technology, traffic safety, traffic analysis, people in the transport system, environment, planning and decision making processes, transport economics

and transport system. The knowledge that the institute provides gives a basis for decisions for players in the transport sector and in many cases finds direct application in both national and international transport policies.

VTI conducts commissioned research in an interdisciplinary organisation. The institute also works with investigations, provides consultancy services, and performs different kinds of measurement and testing services. The institute also has a great deal of technically advanced equipment and world-class driving simulators. There is also a laboratory for road materials and a crash test laboratory.



RIOH
Xitucheng Road 8
Haidian District, Beijing

Tel: +86-010-82019588
E-mail y.jiang@rioh.cn
www.rioh.cn

Research Institute of Highway (RIOH), Ministry of Transport was established in 1956, which is a large-scale integrated road transport research institute directly under the Ministry of Transport. Its discipline mainly covers road constructions, bridge construction, traffic safety, intelligent transportation, automotive engineering, road transport and logistics, road ecological and environmental protection engineering.

Its education system includes a master degree program, a doctoral degree program, and a post-doctoral research position. Also, it has several national and ministry-level laboratories, and especially a comprehensive testing

ground. A high-level research team working in RIOH includes a Chinese Academy of Engineering and several well-known experts.

Department of Traffic safety was founded in 1973. It specializes in road safety research and consultation, formulation of national and industrial standards and specifications, quality supervision and testing of relevant products and projects, road safety audit, forensic science on traffic accident, education and development of products.



BJUT
Beijing Key Laboratory of
Traffic Engineering
Pingleyuan No.100,
Chaoyang District, Beijing

Tel: +86-010-67391680
E-mail: cdyan@bjut.edu.cn
<http://trc.bjut.edu.cn>

BJUT, Beijing University of Technology, was founded in 1960. As the key university in Beijing, it is one of the first granted master's degree and one of the first to enter the national "211 Project" and "Education and Training Program of Excellence engineers" colleges.

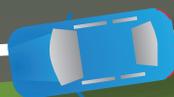
Traffic Engineering Laboratory of BJUT is "Beijing Key Laboratory of Traffic Engineering" and "State Key Laboratory Cultivation Base Co-constructed by province and the Ministry of Science and Technology of China". The laboratory currently comprises seven highly specialized research laboratories, covering the areas of traffic safety, traffic

planning, traffic simulation, traffic control, driving behavior, traffic information, intelligent transportation, and road engineering etc. It has become a world-leading open laboratory in traffic engineering field.

The theoretical and application researches conducted by the laboratory have long been oriented to the hot and hard issues faced by Beijing urban transportation, and the three specialized research directions; traffic behavior and safety, complete information theory and road foundations, have been formed gradually on the basis of a series of research achievements.



T2013 International Conference
25-28 August 2013
 Brisbane, Queensland, Australia



20th International Council on Alcohol, Drugs and Traffic Safety Conference

25-28 August 2013 Brisbane Convention and Exhibition Centre, Brisbane, Queensland, Australia

T2013 will present a global forum at which all those involved in road safety and injury prevention research and policy, particularly from the fields of drugs and alcohol, can meet with researchers, academics and professionals to discuss and present on the latest work being undertaken in these areas.

The conference themes will provide the opportunity for a broad range of presentations, workshops, symposia and discussion, and dedicated programs will be offered for young scientists, early career researchers, students and those from low and middle income countries.

Keynote speakers

Dr Ralph Hingson

ICADTS Past President

Pablo Carignano

Buenos Aires City Government

Dr Leilei Duan

National Centre for Chronic and Non-communicable Disease Control and Prevention, China CDC

Dr Kazuko Okamura

National Research Institute of Police Science, Japan

Dr Wolf-Rudiger Nickel

Past ICADTS President

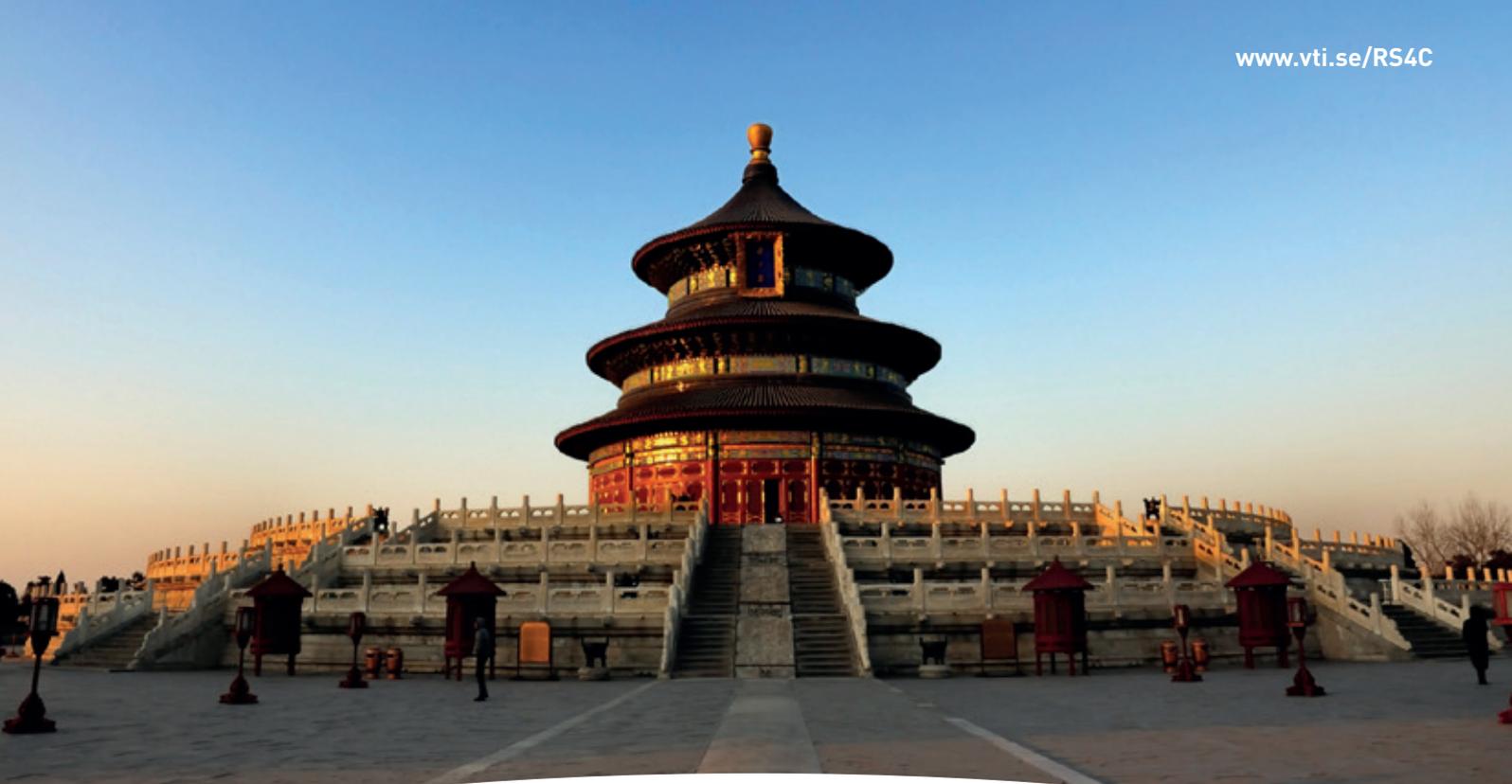
Who should attend

Academics, researchers and practitioners in the areas of:

- Traffic and Transport Psychology
- Public Health
- Law
- Medicine
- Economics
- Law enforcement
- Public Policy
- Education
- Pharmacology and Toxicology
- Forensic Science
- Human Factors
- Alcohol Intervention and Rehabilitation



For more information: www.t2013.com or contact via email: t2013@qut.edu.au



Conference organisers



交通运输部公路科学研究院



Supporting Organisations

Ministry of Transport, China

Ministry of Enterprise, Energy and Communication, Sweden

Technical Supporting Organisations

 TRANSPORTATION RESEARCH BOARD

Transportation Research Board (TRB)



National Engineering Laboratory for Surface Transportation Weather Impacts Prevention (NELSTWIP)




GLOBAL ROAD SAFETY PARTNERSHIP
Global Road Safety Partnership (GRSP)



Forum of European Road Safety Research Institutes (FERSI)



Global Road Safety Facility (GRSF)



European Conference of Transport Research Institutes (ECTRI)