15th International Conference
Road Safety
on Four Continents
Abu Dhabi, United Arab Emirates, 28-30 March 2010
Program
Held under the Patronage of His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice-President and Prime Minister of the UAE and Ruler of Dubai, the United Arab Emirates represented by the National Transport Authority and its strategic partners, will host the Road Safety on Four Continents Conference between 28–30 March 2010 in its 15th edition, and as such will become the first Middle East and Arab country to host this important conference.

From the first conference in 1987 until today, RS4C has been organised by the Swedish National Road and Transport Research Institute (VTI) in coordination with supporting international establishments and organisations and in cooperation with the host countries.

RS4C is a series of major international conferences on road safety and the conference was held for the first time in 1987 with the emphasis on two continents - Europe and North America. Africa joined for the first time in the 2000 conference in South Africa and Asia joined for the first time in the Bangkok 2007 conference. The conference therefore now covers four continents - Europe, North America, Africa and Asia. Although the conference focused on the four continents, previous conferences also included South American and Australian participation.

The last two editions were highly successful in terms of attracting international research bodies and the most prominent international experts involved in road safety as well as decision-makers from various parts of the world (representing 50 countries from 6 continents).

The close relations between the National Transport Authority and international organisations concerned with road safety, the Authority’s recent intensive involvement in the international arena and in view of the UAE’s regional and international profile, The National Transport Authority were delighted to be awarded the opportunity to host the 15th edition conference.

The importance of road safety and triggered by the numbers of deaths resulting from road accidents, which the latest statistics by international organisations ranks as third in the causes of death after wars and epidemics, not to mention the potential disabilities, deformities and loss of property as a result of these accidents, was a deciding factor in the NTA’s desire to host the conference in the U.A.E.

Dr. Nasser Saif Al Mansoori
Director General NTA
Chairman of National Organising Committee
Committees and chairmen

Chairman of the 15th Road Safety on Four Continents conference:
H.E. Shaikh Hamdan bin Mubarak AlNahyan (Minister of Public Work, Chairman of NTA)

National organizing committee

- H.E. Dr. Nasser Saif Al Mansoori, Director General of NTA, Chairman
- Eng. Abdullah Salem Al Katheeri - National Transport Authority
- Mr. Nedal Faisal El Batayneh - National Transport Authority
- Bregadair General Ghaith Hasan Al Zaabi - Ministry of Interior
- Mr. Khaled Hashem - Department of Transport - Abu Dhabi
- Eng. Maitha Bin Adi - Road and Transport Authority - Dubai
- Mr. Abdullah Al Zari - Sharjah Transport
- Eng. Abdullah Saeed Al Shamsi - Abu Dhabi Municipality
- Bregadair General Hussain Mohammad Al Harthi - Saaed for traffic Systems
- Bregadair General Hasan Al Housani - Emirates Traffic Safety Society
- Dr. Gehad Youssef Asbaita - Emirates Driving Company
- Deputy Director General Kent Gustafson - VTI

International advisory committee

- H.E. Eng. Abdullah Al Katheeri, NTA, chairman
- Nedal F. El Batayneh, NTA
- Kent Gustafson, VTI
- Peter Elsenaar, GRSP
- Richard Pain, TRB
- Evangelos Bekiaris, Hellenic Institute of Transport (FERSI)
- Horst Schultze, BASt (FERSI)
- Andrew Parkes, TRL (ECTRI)
## Scientific committee

<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
<th>Country</th>
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<tr>
<td>Kent Gustafson, Chairman</td>
<td>VTI</td>
<td>Sweden</td>
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<td>Yasser Hawas</td>
<td>UAE University Al-Ain</td>
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<td>Bhagwant Persaud</td>
<td>Ryerson University</td>
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<td>Juha Luoma</td>
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<td>Mary Lydon</td>
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<td>Michael Tziotis</td>
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<td>Pieter Venter</td>
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<td>Per Löken</td>
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<td>Dieter Willersinn</td>
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<td>Jordan University of Science</td>
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<td>Rikke Rysgaard</td>
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<td>The George Washington University</td>
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<td>Karel Pospisil</td>
<td>CDV - Transport Research Centre</td>
<td>Czech Republic</td>
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28 March

Registration 08.00-09.30

Opening Ceremony

09.30-11.00

Chairman:
H.E. Shaikh Hamdan bin Mubarak AlNahyan
(Minister of Public Work, Chairman of NTA)

Welcome addresses
H.H. Shaikh Mohammad Bin Rashed Al Maktoum
(The vice president, Prime Minister, the ruler of Dubai)

RSAC Chairman - H.E. Shaikh Hamdan bin Mubarak AlNahyan
(Minister of Public Work, Chairman of NTA)

HE Mr Bruno Beijer, Ambassador of Sweden, United Arab Emirates

Mr Jonas Bjelfvenstam, Director General, VTI

Coffee 11.00 - 11.30

Opening Session

11.30-13.00

Chairman:
H.E. Dr. Nasser Saif Al Mansouri (Director General of NTA)

Key note speech
Andrew Pearce, Chief Executive, Global Road Safety Partnership

Key note speech
"Research and Implementation Coming Together"
Richard Pain, TRB

Key note speech
Dr Syed Jaffar Hussain, WHO

Lunch 13.00-14.30
### Session 1

**14.30-16.00**

**Road Safety Plans and Strategies**

Chairman:
H.E. Eng. Hussain Al Harthi, Director of Abu Dhabi Traffic Department

Sources of uncertainty in estimated benefits of road safety programmes
Rune Elvik, Institute of Transport Economics, Norway

Systemic Traffic Risk Assessment: A Useful Tool That Could Be Put Into Practice In Argentina
Gustavo Zini, School of Engineering - University of Buenos Aires, Argentina

Are Speed Cameras Effective in Reducing Road Crashes in the Emirate of Abu Dhabi?
Dr. Arif Mehmood, Department of Transport, Abu Dhabi, United Arab Emirates

Developing a Road Safety Strategy for the Emirate of Abu Dhabi
Mr Jamie Castle, TRL, UK

Recent road safety strategies in Hungary
Prof. Dr. Péter Holló, Tamás Berta, KTI Institute for Transport Sciences Non-profit Ltd., Hungary

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### Session 2

**14.30-16.00**

**Preventive safety measures, audits, safety inspections**

Chairman:
Joanna Zukowska, Gdansk University of Technology, Poland

Collection of road and roadside data to help address road safety risk
Blair Turner, ARRB Group, Australia

Outcomes from a large scale road safety audit of the existing Dubai road network
John Hughes, ARRB Group, Australia

Recommendations for the adjustment of existing rural roads towards self explaining roads
Thomas Richter, Technische Universität Berlin, department road planning and operation, Germany

Narratives and Accidents
Beate Elvebakk, Institute of Transport Economics, Norway

Measurement of Unsafe behaviour of road users
Pr. H. Boudrifa, Laboratory of Prevention and Ergonomics; The university of Algiers, Algeria

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Coffee 16.00-16.30
### Session 3

**16.30-18.00**

**Road Safety Plans and Strategies II**

**Chairman:**
Andrew Pearce, GRSP

**Australia’s new approach to road safety: How is the Safe System approach being implemented?**
Blair Turner, ARRB Group, Australia

**Organising For Road Safety In Bangladesh: Some Challenges And Opportunities**
Dr. Md. Mazharul Hoque, Department of Civil Engineering, BUET, Bangladesh

**3 Step Generic Procedure To Assess Road Safety: A Case Study of Egypt**
Dr. Khaled Abbas, Roads & Transport Authority, Dubai, United Arab Emirates

**Effective Road-Safety policy making in lower-income countries: Ten principles from social systems thinking**
Alfredo del Valle, Universidad Alberto Hurtado, Santiago, Chile

**Road Safety Strategies of Abu Dhabi Municipality**
Rauf Iqbal, Municipality of Abu Dhabi City, United Arab Emirates

### Session 4

**16.30-18.00**

**Highlights of road safety in Europe - FERSI endorsed research**

**Chairman:**
Evangelos Bekiaris, Hellenic Institute of Transport, Greece

**Driving Under the Influence of Drugs, Alcohol and Medicines: DRUID Project**
Horst Schulze, Bundesanstalt für Straßenwesen (BASt), Germany

**Integrated system for safe transportation of children to school, Safeway2school**
Magnus Hjälmdahl, VTI, Sweden

**Naturalistic rider studies for the analysis of riders’ behaviour and safety (2BESAFE)**
Stéphane Espié, INRETS, France

**PROmoting real Life Observations for Gaining Understanding of road user behaviour in Europe (PROLOGUE)**
Stella Nicolaou, CERTH/HIT, Greece

**SAFERIDER: Can Based Architecture on 2-Wheelers Domain**
Roberto Montanari, University of Modena & Reggio Emilia, Italy

**Integrated Safety & Security for transportation hubs – SAVE ME**
Maria Panou, Hellenic Institute of Transport, Greece
## Session 5

**09.30-11.00**

### Modelling

**Chairman:**
Geert Wets, IMOB - Hasselt University, Belgium

**Modelling the Safety of Intersections**
Dr Majid Sarvi, Department of Civil Engineering, Monash University, Australia

**GRSI-Beijing Project of Improving VRU’s Safety at Junctions**
Yanyan Chen
Beijing University of Technology, China

**Measuring The Risk of Road Crashes**
Aline Chouinard, Transport Canada, Canada

**Bringing Structure into Road Safety Evaluation: A Hierarchy of Indicators**
Tom Brijs, IMOB - Hasselt University, Belgium

**Road Safety Evaluation and Target Setting using Data Envelopment Analysis**
Tom Brijs, IMOB - Hasselt University, Belgium

**Evaluation of Methods for Pedestrian Safety Improvement on Left-Turning Vehicles Movement**
Hassan Zoghi
Islamic Azad University, Karaj Branch, Tehran, Iran

*Only published in proceedings:*
**Multilevel Data in Traffic Safety: a 5xST-level Hierarchy**
Helai Huang, University of Central Florida, USA

## Session 6

**09.30-11.00**

### Crash Recording Systems and Safety Auditing I

**Chairman:**
Wahid Ali AL-Kharuzi, Oman

**Evaluation of Road Traffic Accidents in Germany - Need of Data and Analysis**
Sabine Degener, Unfallforschung der Versicherer, Germany

**Road Crash and Victim Information System**
Panhavuth SEM, Handicap International Belgium, Cambodia

**A Data Quality Case Study for Turkish Highway Accident Data Sets**
Omur Kaygisiz, General Directorate of Security, Traffic Research Center, Turkey

**Assessment of Crash Database System of United Arab Emirates**
Md. Bayzid Khan, United Arab Emirates University, United Arab Emirates

**Characteristics of Injury Crashes in Dubai UAE**
Mostapha Al-Dah, ESRI, Loughborough University, UK

## Session 7

**09.30-11.00**

### Distraction, fatigue, alcohol and drugs related adverse effects on driving

**Chairman:**
Rune Elvik, Institute of Transport Economics, Norway

**An examination of the effects of continuous positive airway pressure (CPAP) treatment on the driving performance of patients suffering from sleep apnoea**
Aikaterini Touliou, Centre for Research and Technology Hellas (CERTH)/Hellenic Institute of Transport (HIT), Greece

**Drinking and Driving Project in Guangxi**
Ann Yuan, GRSP, China

**Drug Users Perceptions of Drug Driving Post the Introduction of Random Roadside Drug Testing in Melbourne, Victoria**
Laura Ann Wilson, Monash University, Australia

**Drink-driving with Heavy Vehicles in Norway, Prevalence, Accident Risk and Countermeasures**
Terje Assum, TOI -Institute of Transport Economics, Norway

**Safety Issues of Drowsy/Fatigue Driving and Countermeasure Mitigation**
Prof. Azim Eskandarian, Center for Intelligent Systems Research (CISR), The George Washington University, USA

Coffee 11.00-11.30
ملتزمون بأعلى معايير السلامة على الطرق
Committed to the highest road safety standards

www.dot.abudhabi.ae
### Session 8

**11.30-13.00**  
**Modelling II**

**Chairman:**  
Tom Brijs, IMOB - Hasselt University, Belgium

- **A computational model to assess the impact of a set of policy measures on traffic safety at the regional level**  
Geert Wets, IMOB - Hasselt University, Belgium

- **A More Precise Approach for Road Safety Scoring**  
Ahmet Yildiz, Dep. for Spatial Development, Infrastructure and Environment Planning, Vienna, Austria

- **Computer-aided Road Safety Inspections**  
Ahmet Yildiz, Dep. for Spatial Development, Infrastructure and Environment Planning, Vienna, Austria

- **Development of a new Driver behaviour model through a novel object detection technique**  
Dr Majid Sarvi, Civil Engineering, Monash University, Australia

- **Automated Road Safety Analysis Using Computer Vision Techniques**  
Tarek Sayed, University of British Columbia, Canada

- **Only published in proceedings:**  
Macroscopic Safety Investigation at the Traffic Analysis Zone Level  
Mohamed Abdel-Aty, Department of Civil, Environmental and Construction Engineering, University of Central Florida, USA

### Session 9

**11.30-13.00**  
**Crash Recording Systems and Safety Auditing II**

**Chairman:**  
Mahmoud Fekri, Health Dept., Abu Dhabi, United Arab Emirates

- **Elderly Driver Traffic Citations in Hawaii, 1996-2006**  
Karl Kim, University of Hawaii, USA

- **Influence of Accident Cause on Ranking Hazardous Road Sections**  
Vahid Abolhasannejad, Birjand University of Technology, Birjand, Iran

- **Identification of Accident Black Spots on Rural Highways in India: Case Study of Maharashtra State**  
Dattatraya Tukaram Thube, Public Works Department, Government of Maharashtra, India

- **Analysis of Risk Factors for Rear-end Collisions by Using Drive-recorder Data**  
Shigeru Tominaga, College of Science and Technology, Nihon University, Japan

- **In-Depth Investigation of Severe and Fatal Roadway Crashes in the Emirate of Abu Dhabi-UAE**  
Jens Thomsen Health Authority, Abu Dhabi, United Arab Emirates

### Session 10

**11.30-13.00**  
**Vehicle innovations and ITS applications**

**Chairman:**  
Yasser Hawas, UAE University Al Ain, UAE

- **The Effectiveness of Antilock Brakes Systems on Motorcycles in Reducing Real Life Crashes and Injuries**  
Matteo Rizzi, Vectura Consulting, Sweden

- **Motorcyclist Spinal Injuries in Road Crashes: Literature Review**  
Zarir Hafiz Zulkipli, Malaysian Institute of Road Safety Research (MIROS), Malaysia

- **Automated Truck Platoons on Motorways – A Contribution to the Safety on Roads**  
Eckart Hauck, RWTH Aachen University, ZLW/IMA, Germany

- **Mobile Traffic Safety Integration with off Board Navigation – (MOTION). Evaluation of acceptance and traffic safety with a Speed Alert function**  
Magnus Hjälmdahl, VTI, Sweden

- **Evaluation on Impact of Adaptive Cruise Control Installation on Reduction of Collision Using Micro Traffic Simulation**  
Atsushi Fukuda, Nihon University, Japan

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**Lunch 13.00-14.00**
### Session 11

14.00-15.30
Road user education, driver licenses, special user groups: young, old, vulnerable

Chairman:
Gehad Esbaita,
EDC, United Arab Emirates

- Ambient intelligence in driving simulation for training young drivers
  Evangelos Bekiaris, Hellenic Institute of Transport, Greece
- Improving driver education with multimedia applications
  Josef Krems, Chemnitz University of Technology, Germany
- The New Road Safety Programme for Comprehensive School of Lithuania: theoretic and didactic aspects
  Rytis Vilkonis, Faculty of Education, Siauliai University, Lithuania
- Experiences of Helmet Wearing Promotion and Enforcement in Cambodia
  Chandy MEAS, Handicap International Belgium, Cambodia

### Session 12

14.00-15.30
Safety management techniques including speed management

Chairman:
Laurent Carnis,
INRETS/DEST, France

- Fatality Analysis of Intersection Accidents in Bangladesh
  Sabreena Anowar, University of Calgary, Canada
- Severity Analysis of Heavy Vehicle Accidents of Bangladesh
  Shamsunnahar Yasmin, University of Calgary, Canada
- Investigating Driver’s Behaviour Change by Signal Countdown Devices at Intersections in Beijing
  Yulong He, Beijing University of Technology, China
- Accident characteristics by Road Types on Singapore Roads
  Ho Seng Tim, Land Transport Authority LTA, Singapore
- Stopping Propensity at Red Lights in Saudi Arabia
  Salaheddine Bendak, Dallah Human Skills Development Company, Saudi Arabia

### Session 13

14.00-15.30
Interurban and rural safety, intersections, incident management

Chairman:
Ho Seng Tim,
LTA, Singapore

- Fatality Analysis of Intersection Accidents in Bangladesh
  Sabreena Anowar, University of Calgary, Canada
- Severity Analysis of Heavy Vehicle Accidents of Bangladesh
  Shamsunnahar Yasmin, University of Calgary, Canada
- Investigating Driver’s Behaviour Change by Signal Countdown Devices at Intersections in Beijing
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- Accident characteristics by Road Types on Singapore Roads
  Ho Seng Tim, Land Transport Authority LTA, Singapore
- Stopping Propensity at Red Lights in Saudi Arabia
  Salaheddine Bendak, Dallah Human Skills Development Company, Saudi Arabia

Coffee 15.30-16.00
16.00-17.30
Road user education, driver licenses, special user groups: young, old, vulnerable
Chairman:
Dr Bassam Ahmad Anani, Abu Dhabi DOT, UAE

Vulnerable Road User Safety across several international regions
Jennie Oxley, Monash University Accident Research Centre, Europe, Australia/Italy

Dubai Pedestrian Safety & Mobility Action Plan
Saad Al Asady, Roads & Transport Authority, Dubai, United Arab Emirates

Comparative Cross-Cultural Analyses on Road Safety among Vulnerable Road Users
Ernest Agyemang, NTNU, Norway/University of Ghana, Ghana

Bicycle helmets, risk compensation and cyclist types
Aslak Fyhri, Institute of Transport Economics, Norway

Criteria for age based design of Active Vehicle Safety Systems
Eckart Hauk, Aachen University, Germany

16.00-17.30
Enforcement techniques, traffic laws and self enforcing designs
Chairman:
Terje Assum, Institute of Transport Economics, Norway

Effectiveness of a System of Automatic Speed Control on Poland’s National Roads
Mariusz Kiec, Cracow University of Technology, Poland

Knowing your speed can save your life
Koh Puay Ping
Land Transport Authority
Singapore

Speed Enforcement in France: A Decade of Changes (2000-2009)
CARNIS Laurent, INRETS/DEST, France

An Assessment of Road Safety and Accident Policy Transitions and Pathways in Uganda: Milestones and Priorities for Immediate Action
Paul Isolo Mukwaya, Department of Geography Makerere University, Uganda

Assessment of the Traffic Monitoring Technologies of Relevance to Traffic Safety in UAE
Faisal Ahmed, (RTTSRC) UAE University, Al Ain, United Arab Emirates

16.00-17.30
Traffic engineering innovations including road design and behavioural issues
Chairman:
Peter Hollo, KTI, Hungary

Effects of traffic and geometric features on hazardous maneuvers
Francesco Bella, Department of Sciences of Civil Engineering/Roma TRE University, Italy

Different Designs of Cycle Tracks and Lanes - The Effect on Objective and Subjective Safety
Michael Sørensen, Institute of Transport Economics, Norway

A New Methodology for Implementing Road Design Guidelines in Thailand
Andreas Vesper, Bauhaus-University Weimar, Department of Transport Planning and Traffic Engineering, Germany

Drivers’ risk perception assessment. The case of highways with poor geometric characteristics, in heavy traffic conditions
Prof. Nikolaos Eliou, University of Thessaly, Greece

The potential to Implement a Superstreet as an Unconventional Arterial Intersection Design in South Korea
Young-Rok Kim, Highway Research Division, Infrastructure Research Department, Korea Institute of Construction Technology, Korea

Conference Dinner
### Session 17
**09.30-11.00**
**Fleet safety**

**Chairman:**
Tuenjai Fukuda, Nihon University, Japan

- Stimulating Traffic Safety of (Delivery) Vans by Enhancing the Company’s Safety Culture
  Annick Starren, TNO, The Netherlands

- Development of Road Safety Network in Cambodia
  Chandy MEAS, Handicap International Belgium, Cambodia

- Safety culture in bus transport compared to rail and air transport
  Torkel Bjørnskau, Institute of Transport Economics, Norway

- An innovative approach to addressing heavy commercial vehicle safety
  Adam Ritzinger, ARRB Group Ltd, Australia

- Examples of approachable fatigue management practices in transport companies in the Netherlands
  Annick Starren
  TNO
  The Netherlands

### Session 18
**09.30-11.00**
**Health issues and raising awareness**

**Chairman:**
H.E. Abdulla Al Zeri, Sharjah Transport, United Arab Emirates

- Status of Traffic Safety in the UAE
  Mohammad Nurul Hassan
  RTTSRC, Research Affairs, UAE University
  United Arab Emirates

- Research Directions for Guidelines in Road Safety Engineering
  Peter Croft, ARRB Group, Australia

- Lives of road accident victims and their families
  Joanna Zukowska, Gdansk University of Technology, Poland

- Road Safety in Tanzania – A Questionnaire Study
  Katja Kircher, VTI, Sweden

- Assessment of Road User Behavioral Aspects of Relevance to Traffic Safety in UAE
  Nada Al Naser, Roadway Transportation and Traffic Safety Research Center (RTTSRC)/United Arab Emirates University (UAE University), United Arab Emirates

### Session 19
**09.30-11.00**
**Road Safety Activities in the MENA Region (MENARSP sponsored)**

**Chairman:**
Dr Nabil Safwat, ESCWA, Lebanon

- Development and Partnership achievements by MENARSP
  Samar Abouraad, GRSP, Lebanon

- Results of the UN Road safety Targets Workshop
  Dr Nabil Safwat, ESCWA, Lebanon

- Road Safety Strategies developed in some MENA countries
  Peter Elsenaar, GRSP, The Netherlands

- Examples of some Partnership projects by Shell
  Hendrik Moorrees, Shell, Oman

**Coffee 11.00-11.30**
PAVING THE WAY FOR A MODERN FREEWAY

Al Salam Street Project is a mega infrastructure initiative spearheaded by the Municipality of Abu Dhabi City. By creating an advanced network of tunnels and a modern freeway, the project will ease traffic congestion, raise road capacity to 18,000 vehicles per hour, open 16 lanes and reduce travel time by half in the capital’s arterial route. As an integral part of the municipality’s strategic aim to meet the requirements of a developing city and a burgeoning population, Al Salam Street Project will secure Abu Dhabi’s position as a truly modern metropolis on par with the best in the world.
30 March

Closing Session  11.30-13.00

Chairman: H.E. Eng. Abdullah Al Katheeri, NTA

Summary of Global Road Safety
Peter Elsenaar, GRSP, Switzerland

Closing Address
NTA

Closing Address
Kent Gustafson, Chairman of RS4C organizing committee, VTI

Lunch 13.00-14.00

Technical Visit  14.00

EDC. Emirates Driving Company
A Preliminary Study on Characteristics and the Contributing Factors for Single Vehicle Collisions Involving Trees in Malaysia
Z.A. Ahmad Noor Syukri
Malaysian Institute of Road Safety Research
Malaysia

A Safety Audit Approach in Ranking Urban Black Spots Using Analytical Hierarchy Process (AHP), (Case Study: Region 20 of Tehran)
Mohsen Fallah Zavareh
Traffic and Transportation Deputy, Municipality of Tehran
Iran

Setting up an indicator system for monitoring road safety using the road safety target hierarchy
Gert Wets
IMOB - Hasselt University, Belgium

A statistical analysis of functional failures – driver behaviours preceding head on collisions
Mostapha Al-Dah
Ergonomics and Safety Research Institute, Loughborough University
UK

Setting Appropriate Posted Speed Limit for the Emirate of Abu Dhabi
Abdulilah Zineddin
Abu Dhabi Department of Transport
United Arab Emirates

Vehicles’ Type and Engine Power as Factors Affecting Drivers’ Risk Perception of the Geometric Characteristics of Road Network
Prof. Nikolaos Eliou
University of Thessaly
Greece

Economic Appraisal and Optimization Process in Road Safety Projects
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A Simulation-Based Traffic Safety Evaluation of Signalized and Un-Signalized Intersections
Tom Brijs
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The Malaysian Value of Reducing Fatal and Non Fatal Injuries Due to Road Accidents: A Willingness to Pay Study Using Conjoint Analysis Approach
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