



Young Researchers Seminar

27 to 30 May 2007
Brno, Czech Republic





Sunday 27 May—Evening

19:00 : Early welcome and informal drink at Grand Hotel

Benešova 18-20
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Monday 28 May—Morning



8.15: Official welcome by CDV
By Josef Mikulik, Acting Director of CDV

8.45: National Contact Points in the 7th Framework Programme
By Martin Skarka, Technology Centre AS CR



9.00: **Parallel session 1: Transport economics and transport behaviour**
Subsection: Transport economics
Chaired by László Ruppert from KTI, Hungary

Paper 1: Managing mobility during road works
By Gordon de Munck from AVV, The Netherlands

Paper 2: Traveller transport account in Madrid region
By Álvaro Fernández Heredia from UPM, Spain

Paper 3: Determinants of the competitive position of Dutch seaports
By Claudine van der Sluijs from AVV, The Netherlands

10.30: **Cross Cutting session** by László Ruppert

11.00: **Break**



9.00: **Parallel session 2: ITS**
Subsection: New ITS technologies and simulation
Chaired by Christine Lotz from BASt, Germany

Paper 1: Wrong-way drivers: accidents—interventions
By Gianantonio Scaramuzza from BFU, Switzerland

Paper 2: Using neural networks to improve behavioural realism in driving simulation scenarios
By Anna Booth from TRL, United Kingdom

Paper 3: Artificial perception under adverse conditions: the case of the visibility range
By Nicolas Hautière from LCPC, France

Paper 4: Use of navigation systems and consequences for travel behaviour
By Verena Franken from DLR, Germany

10.30: **Cross Cutting session** by Christine Lotz

11.00: **Break**



11.30: **Parallel session 3: Transport engineering**
Subsection: Maintenance
Chaired by Karel Pospíšil from CDV, Czech Republic

Paper 1: The marginal cost for structural repair of roads—A duration analysis approach
By Mattias Haraldsson from VTI, Sweden

Paper 2: Use of permanent monitoring as a bridge maintenance tool
By Marián Ralbovský from ARSENAL, Austria

Paper 3: Road diagnostics—Ground penetrating radar possibilities
By Josef Stryk from CDV, Czech Republic

13.00: **Cross Cutting session** by Karel Pospíšil

13.30: **Lunch**



11.30: **Parallel session 4: Sustainable transport and environment**
Subsection: Noise
Chaired by Michel Maurin from INRETS, France

Paper 1: Noise charges in railway infrastructure: a pricing schedule based on the marginal cost principle
By Mikael Ögren from VTI, Sweden

Paper 2: A methodology to cluster urban sections for the definition of new noise indicators to monitor the acoustical climate of urban areas
By Cristian Camusso from POLITO, Italy

Paper 3: Road traffic noise characterization: experimental and numerical approaches for the estimation of sound levels variability in space and time
By Benoît Gauvreau from LCPC, France

13.00: **Cross Cutting session** by Michel Maurin

13.30: **Lunch**

Monday 28 May—Afternoon



14.30:

Parallel session 5: ITS

Subsection: ITS and modelling

Chaired by Nour-Eddin el Faouzi from INRETS, France

Paper 1: Traffic state estimation using hierarchical clustering and principle components analysis: a practical comparison

By Georg Foerster from FHG, Germany

Paper 2: Traffic stream analysis with mobile collection units

By Michael Aleksa from ARSENAL, Austria

Paper 3: Heavy vehicle modelling, evaluation and prevention of roll-over risk

By Hocine Imine from LCPC, France

Paper 4: Analysis of system effects of driver assistance systems by traffic simulation

By Andreas Tapani from VTI, Sweden

16.00:

Cross Cutting session by Nour-Eddin el Faouzi

16.30:

Break



14.30:

Parallel session 6: Transport Engineering

Subsection: Materials

Chaired by Karel Pospíšil from CDV, Czech Republic

Paper 1: Investigations as regards new technological features of concrete for the construction of modern road structures

By Tatjana Stankovik from Highway Institute, Serbia

Paper 2: The 3PB test as a tool to discriminate between the performance and behavior of normal bitumen binders and polymers modified binders

By Emmanuel Chailleux from LCPC, France

Paper 3: Prediction of durability of Warsaw streets reconstruction carried out in 2004

By Dominika Jezierska and Maciej Maliszewski from IBDiM, Poland

16.00:

Cross Cutting session by Karel Pospíšil

16.30:

Break



17.00:

Key-note session

20.00:

Dinner and Fireworks show at Brno Dam Recreation Area



Tuesday 29 May—Morning

8.30: Welcome and presentation of ECTRI, FERSI and FEHRL

8.45: Plenary opening



9.00: **Parallel session 7: Transport Safety**
Subsection: Safety policy
Chaired by Peter Holló from KTI, Hungary

Paper 1: The role of structural factors in road safety
By Vojtech Eksler from CDV/INRETS, Czech Republic/France

Paper 2: Review of maritime transport safety and security practices and compliance levels: case studies in Europe and South East Asia
By Eliza A. Gagatsi from HIT, Greece

Paper 3: Organising road safety, A study of the Norwegian Public Roads Administration
By Silvia Olsen from TØI, Norway

10.30: **Cross Cutting session** by Peter Holló

11.00: **Break**



9.00: **Parallel session 8: Transport Engineering**
Subsection: Other issues of transport engineering I
Chaired by Tom Maagdenberg from DWW, The Netherlands

Paper 1: Protection of road tunnel linings in cases of fire
By Ingo Kaundinya from BASt, Germany

Paper 2: Describing longitudinal evenness
By Roland Spielhofer from ARSENAL, Austria

Paper 3: Application of a multi-level freight transport demand model to estimate the effects of political measures
By Michael Spahn from DLR, Germany

Paper 4: Analysis of the test results obtained on the slag embankment of the Motorway M6
By Zsolt Bencze from KTI, Hungary

10.30: **Cross Cutting session** by Tom Maagdenberg

11.00: **Break**



11.30: **Parallel session 9: Transport Safety**
Subsection: Road safety
Chaired by Marjan Hagenzieker from SWOV, The Netherlands

Paper 1: Trespassing on Finnish railways
By Anne Silla from VTT, Finland

Paper 2: Comparative analysis of safety in tunnels
By Cornelia Nussbaumer from KfV, Austria

Paper 3: Stress and strain while driving
By Caroline Schiessl from DLR, Germany

Paper 4: Reconstruction of the roads—Road to safety
Dušan Savković from Highway Institute, Serbia

13.00: **Cross Cutting session** by Marjan Hagenzieker

13.30: **Lunch**



11.30: **Parallel session 10: Transport economics and transport behaviour**
Subsection: Transport behaviour
Chaired by A.I.J.M van der Hoorn from AVV, The Netherlands

Paper 1: Evaluation of transport in the town of Zilina as the basis for Mobility Management implementation.
By Soňa Šestáková from VÚD, Slovakia

Paper 2: How to improve effectively the use of public transportation
By Veronika Forgách from KTI, Hungary

Paper 3: Employment strictness—curse or blessing? A study of Norwegian labour regimes in local public transport
By Merethe Dotterud Leiren from TØI, Norway

13.00: **Cross Cutting session** by A.I.J.M van der Hoorn

13.30: **Lunch**



Tuesday 29 May—Afternoon

- 14.30: **Parallel session 11: Transport safety**
Subsection: Accident data
Chaired by Jaroslav Heinrich from CDV, Czech Republic
- Paper 1:* MARVin—Model for assessing risks of road infrastructure
By Peter Saleh from ARSENAL, Austria
- Paper 2:* Road traffic accidents and the number of unknown cases: estimating the whole extent
By Steffen Niemann from BFU, Switzerland
- Paper 3:* Reducing road traffic injuries: effectiveness of speed cameras in a urban setting
By Anna Novoa from Observatorio Nacional de Seguridad Vial, Spain
- Paper 4:* Phoning while cycling: safety aspects
By Paul Schepers from AVV, The Netherlands
- 16.00: **Cross Cutting session** by Jaroslav Heinrich
- 16.30: **Break**
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- 14.30: **Parallel session 12: Transport engineering**
Subsection: Other issues of transport engineering II
Chaired by Frank Flemish from DLR, Germany
- Paper 1:* About container technologies development in Republic of Tatarstan
By Iksander Samitov from MADI, Russia
- Paper 2:* Improvement of safety on German bridges—New safety barriers to avoid a fall down of heavy lorries
By Janine Kubler from BAST, Germany
- Paper 3:* Evaluation of the heavy load traffic influence on the durability pavement
By Przemyslaw Harasim from IBDiM, Poland
- Paper 4:* Methodology for travel time estimation on a signalised arterial
By Ashish Bhaskar from EPFL, Switzerland
- 16.00: **Cross Cutting session** by Frank Flemish
- 16.30: **Break**
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- 17.00: **Key note session**—Preparing the perfect scientific paper. Confessions of a journal editor.
By Alan Stevens from TRL, United Kingdom
- 17.45: **Key note session**—Transport Research Knowledge Centre—A worthwhile tool for transport research
By Markéta Smažilová from CDV, Czech Republic

Wednesday 30 May—Morning



8.30: Welcome

8.45: Plenary opening

9.00: **Parallel session 13: Sustainable transport and environment**

Subsection: Sustainable transport

Chaired by Henrik Gudmundsson from DTF, Danmark

Paper 1: Limited emission factors determination of alternative fuels vehicles

By Petr Smékal from CDV, Czech Republic

Paper 2: Reviewing behavioural strategies for changing travel choices in the light of global climate change

By Tristan Brightman from TRL, United Kingdom

10.30: **Cross Cutting session** by Henrik Gudmundsson

9.00: **Parallel session 14: Transport safety**

Subsection: Road user safety

Chaired by Alan Stevens from TRL, United Kingdom

Paper 1: Do young novice drivers overestimate their driving skills?

By Saskia de Craen from SWOV, The Netherlands

Paper 2: Mental flexibility impairment in drivers with early Alzheimer's disease: a driving simulator approach

By Virginie Etienne from INRETS, France

10.30: **Cross Cutting session** by Alan Stevens

9.00: **Parallel session 15: ITS**

Subsection: Other ITS issues

Chaired by Bernard Jacob from LCPC

Paper 1: Introducing stochastic aspects in macroscopic traffic flow modelling: impacts on replication and calibration methods

By Nicolas Chiabaut from INRETS, France

Paper 2: Disseminating information with variable message signs during natural or human-caused disasters

By Valerie Mayer-Sperdelozi from University of Rhode Island

Paper 3: ITS-related aspects of developments of urban transport system

By Dmitry Efimenko from MADI, Russia

10.30: **Cross Cutting session** by Bernard Jacob



11.00: Lunch



12.00: Awards to the best papers
Closing of the event by Josef Mikulik, Acting Director of CDV



Members of the Steering Committee:

Josef Mikulik



Cristina Pronello



Peter Reichelt



Fred Wegman



Willy Diddens



Hélène Fontaine



Organised by :



