



Young Researchers Seminar

3-5 June 2009
Torino, Italy

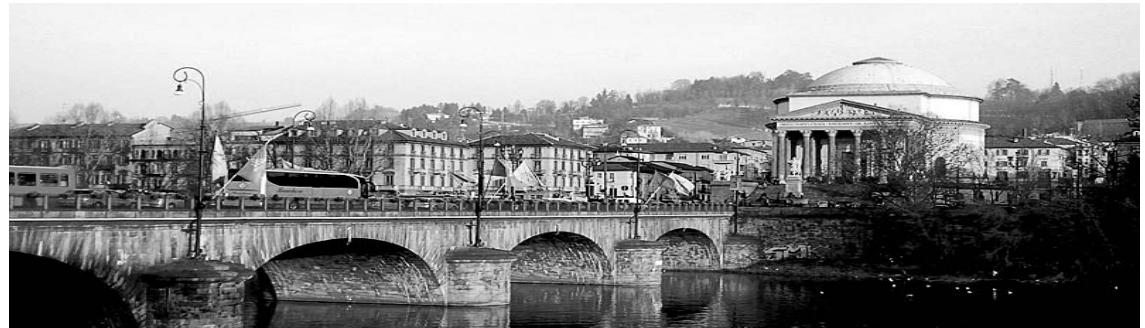
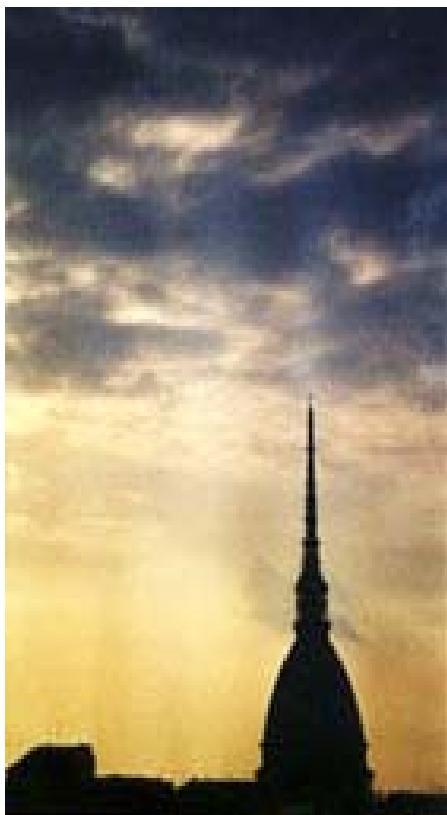




Tuesday 2 June—Evening

19:00 :

To reach the Circolo Eridano it is recommended to follow Corso Vittorio Emanuele II till the bridge over the Po river, cross it, and turn right into Corso Moncalieri, go straight on for about 700 metres and turn right in Parco Caduti dei Lager Nazisti



Wednesday 3 June—Morning



8.30: Registration

9.00: Opening Ceremony and official welcome by Politecnico di Torino (POLITO)
Cristina Pronello, Chairwoman of the YRS09 Organising Committee



9.30: **Parallel session 1: Traffic (1)**

Chaired by Bernhard Nowotny from ARSENAL research, Austria

Paper 1: Multimodal travel time elaboration and routing strategies within
multimodal urban transport networks
Aurélie Bousquet from INRETS, France

Paper 2: Real-time estimation of the origin-destination vehicle flow rates
at a signalized intersection by multisensor data fusion
Krystyna Biletska from INRETS, France

Paper 3: Estimation of annual traffic volumes, a model for Portugal
Carlos Miguel Lima de Azevedo from LNEC, Portugal

10.30: **Cross Cutting session** by Bernhard Nowotny

11.00: **Break**



9.30: **Parallel session 2: Transport Safety (1)**

Chaired by Uwe Ewert from BFU, Switzerland

Paper 1: Modelling disaggregated road safety development using demographics
and mobility data
Yvette Van Norden from SWOV, The Netherlands

Paper 2: Accident simulation and analysis using Vehicle Infrastructure Interaction Simulation
Stephan Kunz from ARSENAL research, Austria

Paper 3: The relationship between road safety and infrastructure:
using Accident Prediction Models
Kirsten Duivendoorden from SWOV, The Netherlands

10.30: **Cross Cutting session** by Uwe Ewert

11.00: **Break**



11.30: **Parallel session 3: Traffic (2)**
Chaired by Enrique Sanjuan from CEDEX, Spain

Paper 1: Quantifying the benefits of new bus priority logic in SCOOT
Helen Gibson from TRL, United Kingdom

Paper 2: Traffic Control on Urban Highways: Measurement of variabilities involved in the Car-Following rules
Aurélien Duret from INRETS, France

Paper 3: Integrating the impact of inclement weather on traffic modeling: quantification and Bayesian modeling
Romain Billot from INRETS, France

13.00: **Cross Cutting session** by Enrique Sanjuan



11.30: **Parallel session 4: Transport Safety (2)**
Chaired by Peter Holló from KTI, Hungary

Paper 1: Regional disparities of traffic accidents in Switzerland
Yvonne Achermann Stürmer from BFU, Switzerland

Paper 2: Driver assessment of road weather conditions and road weather information
Niina Sihvola from VTT, Finland

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

13.30: **Lunch**

Wednesday 3 June—Afternoon



14.30: **Parallel session 5: Transport Safety (3)**
Chaired by Farida Saad from INRETS, France

Paper 1: Delivering effective education interventions to improve knowledge and understanding of safe driving in a prison setting
Rebecca Hutchins from TRL, United Kingdom

Paper 2: Action plan securing nautical safety
Victor van Oudheusden from DVS, The Netherlands

Paper 3: Evaluation of Graduate Driver Licensing Programs and Hazard Perception Tests
Miklos Kedves from KTI, Hungary

Paper 4: Healthy driving: a study of drivers' health condition and relative crash risk
Agathe Backer-Grøndahl from TØI

16.00: **Cross Cutting session** by Farida Saad

16.30: **Coffee Break**

14.30: **Parallel session 6: Road Transport (1)**
Chaired by Jorge Prozzi from TRB, USA

Paper 1: Proposal of improving existing practice of pavement recycling in Serbia
Dusica Drndarski from IP, Serbia

Paper 2: Water flow paths through roads - a field study
Klas Hansson from VTI, Sweden

Paper 3: Geometric and absolute calibration of the English Highways Agency's Traffic Speed Deflectometer
Michael Jenkins from TRL, United Kingdom

Paper 4: Influence of the Accuracy of a Bridge Wright-In-Motion System on the Determination of a Bridge Assessment Dynamic Ration
Jason Dowling from UCD, Ireland

16.00: **Cross Cutting session** by Jorge Prozzi

16.30: **Coffee Break**

17.00: **Key-note session**

20.00: **Official YRS09 Dinner at Ristorante Del Cambio**
Piazza Carignano, 2 10123 Torino Tel: +39 011 546 690



Thursday 4 June—Morning

9.00:

Parallel session 7: Transport Behaviour (1)

Chaired by Marjan Hagenzieker from SWOV, The Netherlands

Paper 1: Texting whilst driving: Drivers subjective awareness of the risks of sending and receiving text messages whilst driving

Ryan Robbins from TRL, United Kingdom

Paper 2: Car drivers perceptions of technical support systems such as Electronic Stability Control Systems and ABS

Anna Vadeby from VTI, Sweden

Paper 3: Combining autonomous vehicles and controlled events in driving simulator experiments

Johan Olstam from VTI, Sweden

Paper 4: Object localisation in jumbled natural road scenes

Christophe Jallais from INRETS, France

10.30:

Cross Cutting session by Marjan Hagenzieker

11.00:

Break



09.00:

Parallel session 8: Road Transport (2)

Chaired by Eugene O'Brien from UCD, Ireland

Paper 1: Warm asphalt bituminous mixtures in regards to energy, emission and performance

Nicolas Bueche from EPFL, Switzerland

Paper 2: Structural Evaluation of flexible pavements using non destructive tests

Simona Fontul from LNEC, Portugal

Paper 3: Economic model for predicting pavement roughness

José Pablo Aguiar-Moia from Texas University, USA

10.30:

Cross Cutting session by Eugene O'Brien

11.00:

Break



11.30:

Parallel session 9: Transport Behaviour (2)

Chaired by Toon Van der Hoorn from DVS, The Netherlands

Paper 1: The use of attitudinal and behavioural variables to define travel users' profiles through the statistical multivariate analysis

Giorgia Servente from POLITO, Italy

Paper 2: Encouraging changes in travel behaviours toward more sustainable mobility patterns: the role of information

Anaïs Rocci from INRETS, France

Paper 3: Characterization of impairments and disabilities that leads to new travel's needs

Virginie Dejoux from INRETS, France

Paper 4: Project CLOSE TO

Miroslava Horakova from CDV, Czech Republic

13.00:

Cross Cutting session by Toon Van der Hoorn



11.30

Parallel session 10: Intelligent Transport Systems (ITS)

Chaired by Alan Stevens from TRL, United Kingdom

Paper 1: Audio and speech signal processing for security and safety application in public transport

David Sodoyer from INRETS, France

Paper 2: Definition of Optimum Placing of informational objects of Transport Telematics System - Routing Orientation System

Andrey Vorobyev from MADI, Russia

Paper 3: Method to measure the quality and reliability of RDS-TMC messages

Jessica Kleine from BASt, Germany

Paper 4: Dynamic traffic and safety management in Brussels

Olivier Van Damme from BRRC, Belgium

13.00:

Cross Cutting session by Alan Stevens

13.30:

Lunch



Thursday 4 June—Afternoon

14.30: **Parallel session 11: Transport Economics**
Chaired by Floridea Di Ciommo from UPM, Spain

Paper 1: International benchmark mainports - landside accessibility
Jessica Hop from DVS, The Netherlands

Paper 2: The crucial role of regular financing of public roads: the case of Hungary
Ágnes Orsolya Kiss from KTI, Hungary

Paper 3: Hubs versus Airport Dominance
Volodymyr Bilotkach from University of California, Irvine, USA

16.00: **Cross Cutting session** by Floridea Di Ciommo

16.30: **Coffee Break**



14.30: **Parallel session 12: Rail Transport**
Chaired by Witold Olpinski from CNTK, Poland

Paper 1: Optimal design of dependable system architectures for
a railroad transportation system
Joffrey Clarhaut from INRETS-ESTAS, France

Paper 2: The effect of different countermeasures on railway trespassing
Finnish experiences
Anne Silla from VTT, Finland

Paper 3: Achievement of efficient railway network in South East Europe:
Technical approach for supporting comprehensive decision making
Annie Kortsari from CERTH-HIT, Greece

Paper 4: Reliability of internation freight trains: a theoretical approach
Yu Bai from TØI, Norway

16.00: **Cross Cutting session** by Witold Olpinski

16.30: **Coffee Break**



17.00: **Key note session**

Friday 5 June—Morning



9:00: **Parallel session 13: Transport Environment**
Chaired by Aslak Fyhri from TØI, Norway

Paper 1: Market Shares of passenger vehicle technologies and their influence on CO2 emissions up the year 2030
Peter Mock from DLR, Germany

Paper 2: Reducing Diesel Railcar CO2-Emissions by means of Electric Energy Storages
Holger Dittus from DLR, Germany

Paper 3: Introducing electromagnetic modelling for EMC analysis of novel transportation systems
Divitha Seetharamoo from INRETS, France

Paper 4: Noise Emission of typical road Surfaces within New Member States using the CPX Method and the new ASTM Tyre in the EU project SPENS
Marco Conter from ARSENAL research, Austria

10.30: **Cross Cutting session** by Aslak Fyhri



9.00: **Parallel session 14: Transport Economics and Behaviour**
Chaired by Ariane Dupont-Kieffer from INRETS, France

Paper 1: Assessment of time use constraints in multimodal trips. Madrid case study
Pablo Jorda Lope from UPM Transyt, Spain

Paper 2: Planning regulations of shopping centres in Scandinavia
Tanja Loftsgarden from TØI, Norway

Paper 3: Market Analysis for shifting of goods from road to rail by means of combined transport in Germany
Agnes Eiband from FVV-IML, Germany

10.30: **Cross Cutting session** by Ariane Dupont-Kieffer

11.00: Welcome and presentation of ECTRI, FERSI and FEHRL

11.30: Awards to the best papers and closing of the event
Cristina Pronello, Chairwoman of the YRS09 Organising Committee

12.00: **Lunch**



ECTRI, the European Conference of Transport Research Institutes, is an international non-profit organisation that was founded in April 2003. Its members are 20 major transport research institutes or universities from European countries. Together, they account for more than 3,000 European scientific and research staff in the field of transport. ECTRI's aim is to help build the "European Research Area" (ERA) in surface transport by cooperation in thematic and process oriented working groups, task forces, Framework Programme projects, seminars. More information about ECTRI at : <http://www.ectri.org>

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FEHRL: Formed in 1989 as the Forum of European National Highway Research Laboratories, FEHRL is governed by the national institutes. It provides a coordinated structure for the interests of the thirty plus national research and technical centres from the member states in the EU, EFTA and the rest of Europe. FEHRL's aim is to encourage collaborative research and information exchange between European Laboratories and institutes in the field of road engineering as well as to provide relevant knowledge and advice to governments, the European Commission, the road industry and road users on related technologies and policies. FEHRL is engaged in road engineering research topics such as safety, environmental issues, telematics, pavement engineering and geotechnics. More information: <http://www.fehrl.org>

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FERSI: The Forum of European Road Safety Research Institutes was established in 1991 with the objective of encouraging collaboration between European road safety research institutes. Such collaboration was, and continues to be, necessary to ensure that the problems of road safety in European countries are researched by the best available expertise, and that the results of the research are implemented in the most appropriate and effective way, both at national or at European level.

More information about FERSI at: <http://www.fersi.org>
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Organised by : 1859-2009



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