



# NEARCTIS

## 4<sup>th</sup> Workshop

### *Towards an Integrated European Community in Advanced Road Cooperative Traffic Management*



### *Final Programme*

**Friday 10 June 2011**

**Lyon, France**

**Organised by**



Supported by funding under the Seventh Framework Programme of the European Commission





## Context of the workshop

NEARCTIS is a network of excellence in co-operative traffic management. The 4<sup>th</sup> NEARCTIS workshop is an excellent opportunity to meet colleagues working in the traffic management area and to inform and discuss the latest progress of research activities. This workshop should be of interest to the researchers and practitioners working in the transportation field.

The main goal of the NEARCTIS is the development of a joint programme of research activities. The project is in its third year and some major deliverables have been completed. The fundamental issues, state of knowledge, the definition of a common research programme and educational activities of the project are on good way which reflects an increasing activity of the network. The next step will concentrate on the harmonisation of the research agenda for setting up a Virtual Centre of Excellence (VCE). This workshop will offer a relevant platform for sharing experiences and for discussing a future vision of the traffic management.

## Objective

The main objective of the workshop is the dissemination of the work completed so far by the network as well as on the initialisation of the process towards the harmonisation of the research agenda for setting up a Virtual Centre of Excellence (VCE) as part of the perpetuation of the network. The programme will be composed of 3 main parts:

- harmonised research agenda
- targeted presentations linked to NEARCTIS activities
- interactive poster session presented by young researchers

## Venue & hotels

The workshop will take place in Lyon, France on 10<sup>th</sup> June 2011.

IFSTTAR, Lyon Centre (previously INRETS),  
25 avenue F. Mitterrand, 69500 Bron, France.



Venue:  [.pdf](#)

Room: Amphitheatre du CETE



## Local organiser and contact

IFSTTAR – Transport and Traffic Engineering Laboratory (LICIT)

Nour-Eddin EL FAOUZI

<http://www.inrets.fr/linstitut/unites-de-recherche-unites-de-service/licit/>

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## Skelton of the 4<sup>th</sup> workshop NEARCTIS

10 June 2011

Welcome, coffee

09:00

Welcome plenary – Keynote speech

09:30

- Welcome Speech
  - CETE de Lyon M. Yannick Mathieu, CETE de Lyon
  - IFSTTAR M. Henri Van Damme, Scientific Director
- Keynote Speech M. Bernard Basset, ITS France  
“ITS France: presentation, actions within ITS Directive including cooperative systems”

**Session 1: Towards a Harmonised Research Agenda for a VCE**

10:15 - 11:15

**Chair:** Jean-Baptiste Lesort, ENTPE

- Elaboration Process of the Harmonised Research and Development Programme Benjamin Heydecker, (UCL)
- Identified Research Topics Based on the Assimilation and Shared Resources Peter Wagner, (DLR)
- Education Training and Dissemination Achievements and Recommendations for the Future Network Nick Hounsell, (Univ. of Southampton)
- Perpetuation Process and Capitalisation of the Network Christine Buisson, (IFSTTAR)

Coffee break

11:15 - 11:30

**Session 2: Benefits of Cooperative Systems to traffic Management and Related Initiatives**

11:30 - 12:30

**Chair:** Nick Hounsell, University of Southampton

- “ERTRAC Roadmap Towards an Integrated Urban Mobility System” Sylvain Haon (POLIS)
- “Eco-traffic Management and Cooperative Systems: the eCoMove way” Jean Charles Pandazis (ERTICO)
- “OPTIMUM - Optimised ITS-based Tools for Intelligent Urban Mobility : A Marie Curie Scheme for Research Staff Exchange” Fabienne Janin (ERT)

Lunch break

12:30 - 13:30

**Session 3: EC strategy in cooperative systems and Assessment of ITS measures projects**

13:45 - 15:00

**Chair:** Glenn Geers, NICTA, Australia, member of the NEARCTIS Advisory Committee

- Emilio Davila (EC) : "European Strategy and Programmes"
- Paul Boulter (TRL) "ECOSTAND - Common assessment methodology for determining the impacts of ITS on energy efficiency and CO<sub>2</sub> emissions"
- R. Horiguchi (ITL, Japan): "The Energy ITS Project - the Modeling and the Validation of Traffic Simulation for the Assessment of CO<sub>2</sub> Reduction with ITS Measurement"
- M. Yonezawa (JARI, Japan): "The Energy ITS Project - the Meso-scale Harmonization of Traffic Simulation and CO<sub>2</sub> emission Model Considering Acceleration Behaviors"

Coffee break

15:00 - 15:15

**Chair:** Nour-Eddin El Faouzi, IFSTTAR

This poster session will be interactive. The authors will be able to present their posters to the participants.

List of Posters:

- Maurice Aron, Régine Seidowsky. [Cooperative traffic data and risk indicators](#). IFSTTAR
- Thomas Courbon, Ludovic Leclercq. [Cross-comparison of Macroscopic Fundamental Diagram estimation methods](#). ENTPE, IFSTTAR
- Scott Cruickshanks, B Waterson. [Will Privacy Concerns Associated With Cooperative Transport Systems Restrict the Publics Freedom of Movement?](#) University of Southampton
- Filmon G. Habtemichael, Luis Picado Santos. [Improved Active Traffic Management Systems For Motorway Efficiency](#). University of Coimbra
- Olga Huijbregtse, Gunnar Flötteröd, Michel Bierlaire, Andreas Hegyi, Serge. [Optimization of evacuation instructions as a fixed-point problem](#). TU Delft & EPFL
- Günter Kuhns, Rüdiger Ebendt, Peter Wagner, Elmar Brockfeld, Alexander Sohr. [Self-evaluation of Floating Car Data \(FCD\) based on travel times from real vehicle trajectories](#). German Aerospace Center (DLR)
- Florian-Martin Marczak, Christine Buisson. [A new filtering technique based on I-splines](#). ENTPE, IFSTTAR
- Thomas Monamy, Habib Haj-Salem, Jean-Patrick Lebacque. [Experimental Analysis of Trajectories for the modeling of Capacity Drop](#). IFSTTAR
- Minh-Hai Pham, André-Gilles Dumont. [Risk-Sensitive Traffic Management System](#). EPFL
- Polyvios Polyviou, Nick Hounsell. [How can Modelling of Traffic Incidents Support Intelligent Transport Systems and Reinforce Bus-based Public Transport?](#) University of Southampton.
- Hartmut Runge, Steffen Suchandt, Fabrice Reclus, Nour-Eddin El Faouzi, Jean-Luc Ygnace, Mathieu Vérité. [Verification of Traffic Information using Advanced Radar Satellites](#), DLR, CETE de Lyon, ENTPE, IFSTTAR
- Riccardo Scarinci. [Ramp Metering for the management of motorway roads](#). University College London.
- Schakel W. J., B. van Arem. [Localized traffic flow optimization using in-vehicle advice](#). TU Delft
- Jan Schulz, Yasin Walayat. [Towards a traffic measuring surveillance system utilizing tire pressure monitoring systems \(TPMS\)](#). German Aerospace Center (DLR)
- Meng Wang, Winnie Daamen, Serge Hoogendoorn, Bart van Arem. [Investigating Environmental Impacts of Dynamic Speed Limits](#). TU Delft.