



23-26 April 2012, Athens, Greece

Sustainable Mobility through Innovation

NEWSLETTER (no. 5 – April 2012)



Final TRA2012 programme and list of speakers now finalised

The complete programme for TRA2012 with all the different sessions and venues is now available and downloadable from the TRA2012 site (<http://www.traconference.eu/images/stories/tra2012-programme-overview-mar-2012-2.pdf>). Speakers for the plenary sessions every day have also been finalised. [Read more](#). More than 1,000 delegates are now expected to attend TRA2012. Click [here](#) to register for TRA2012 and [here](#) for more registration details.



CEDR on the move to TRA2012

The Conference of European Directors of Roads (CEDR), a forum for the discussion and promotion of improvements to the road system and its infrastructure composed of 27 National Road Authorities or equivalent bodies, is pleased to invite you to the fourth TRA2012, draws your attention to two important strategic sessions on the first day and invites you to visit its booth to discuss CEDR's latest position papers, best practice guides and publications. [Read more](#)



YEAR 2012 – finalists and judges now selected!

YEAR 2012 - The **Young European Arena of Research 2012** gives students the opportunity to showcase their work to experts at TRA2012. More than 350 students submitted their abstract online and 67 judges selected the eight best applicants in each pillar. The 30 top students were then invited to attend TRA2012 to display their research and the winners will receive their prizes at an award ceremony on the first day of TRA2012. [Read more](#)



More than 20 exhibition booths booked – book yours now!

More than 20 exhibition booths, including for the five TRA partners CEDR, ERTRAC, European Commission, ERRAC, Waterborne and the Greek Ministry of Infrastructure, Transport & Networks, have now been booked at the TRA2012 exhibition, covering a total of 1.000 m². **It is not too late to book a booth** - contact info@traconference.eu to book. [Read more](#) about which exhibitors will be there, as well as how to book a room for a parallel meeting if you need one.



<http://www.traconference.eu>



Final TRA2012 programme and overview of plenary speakers now finalised

Click on <http://www.traconference.eu/images/stories/tra2012-programme-overview-mar-2012-2.pdf> to see the complete programme for TRA2012 with all the different sessions and venues. Speakers for the plenary sessions every day have also been finalised and are as follows:

OPENING CEREMONY: Monday 23rd April 2012, 10h00 - 11h30

Master of Ceremonies: *Pr Sergios Lambropoulos*, Secretary General, Greek Ministry of Infrastructure, Transport & Networks and Chairman of the TRA2012 Management Committee

- *Mrs. Máire Geoghegan-Quinn*, European Commissioner for Research, Innovation and Science
- *Mr. Siim Kallas* (video message), Vice-President of European Commission, European Commissioner for Mobility & Transport
- *Mrs. Anna Diamantopoulou*, Minister of Development, Competitiveness and Shipping
- *Pr. Wolfgang Steiger*, Director Future Technologies Volkswagen AG, Chairman of the European Road Transport Research Advisory Council (ERTRAC)
- *Prof Andrew McNaughton*, Technical Director of High Speed Two Ltd and European Rail Research Advisory Council (ERRAC) Chairman
- *Mr. William Laros*, Chairman of the Waterborne Technology Platform
- *Dr. Stirmantas Skrinkas*, Director General Lithuanian Road Administration, Conference of European Directors of Roads (CEDR) Chairman

1ST DAY PLENARY SESSION: EU 2020 objectives on transport innovation: from research to deployment

- *Mrs. Máire Geoghegan-Quinn*, European Commissioner for Research, Innovation and Science
- *Mr Nevio Di Gusto*, CEO of Fiat Research Centre
- *Mr Jean-Pierre Loubinoux*, Director-General of the International Union of Railways (UIC)
- *Mr Jan Hendrik Dronkers*, Director General Rijkswaterstaat and CEDR Governing Board member

2ND DAY PLENARY SESSION: Competitiveness of the European transport industries

- *Mr Jean-Luc di Paola-Galloni*, Valeo Group Vice-President Sustainable Development and External Affairs, Vice-Chairman of ERTRAC
- *Mr. Ger Maas*, President of ENCORD and Strategy Director of Royal BAM Groep
- *Mr Henri Poupert-Lafarge*, Chairman of the Association of the European Rail Industry (UNIFE) and President of Alstom Transport.
- *Mr. Bernard Meyer*, CEO of cruise ship builder Meyer Werft

3RD DAY PLENARY SESSION: Decarbonisation and future energy forms in transport

- *Mr. Peter Biesenbach*, Head of External Relations of Robert Bosch GmbH
- *Mr. John C. Lyras*, Member of the Board and former President of the European Community Shipowners' Association (ECSA)
- *Mr. Thierry Valdieu*, New Mobility Programme Director of Renault
- *Mr. Alain Flaush*, Secretary-General of the International Association of Public Transport (UITP)
- *Dr Ken Rose*, Technical Coordinator Fuels Quality and Emissions, CONCAWE

CLOSING SESSION: Preparing the future of an integrated transport system for Europe

- *Prof. Phil Blythe*, Newcastle University
- *Mr Georgios Koumoutsakos*, MEP
- *Mr Makis Vroidis*, Greek Minister of Infrastructures, Transport and Networks
- *Mr Matthias Ruete*, Director-General for Mobility and Transport, DG MOVE of the European Commission
- *Ms. Lena Erixon*, Deputy Director General, Swedish Transport Administration and CEDR Governing Board (GB) member
- *Prof. Sandra Rosenbloom*, Chairman of the Transportation Research Board (TRB) Executive Committee
- *Prof. George Giannopoulos*, Director Hellenic Institute of Transport

The closing session will be followed by the handing over of TRA2012 to the French organisers IFSTTAR who will host TRA2014 in Paris! Click on <http://www.traconference.eu/conference-programme.html> to get the full overview of the programme.

More than 1,000 delegates are now expected to attend TRA2012. Click [here](#) to register for TRA2012 and [here](#) for more registration details.

CEDR on the move to TRA2012



The Conference of European Directors of Roads (CEDR) is a forum for the discussion and promotion of improvements to the road system and its infrastructure, which are an integral part of a sustainable transport system in Europe. Its 27 members represent their respective National Road Authorities or equivalent bodies. They provide support and advice on decisions concerning the road transport system that are taken at national or international level.

CEDR is pleased to invite you to the fourth Transport Research Arena, TRA 2012, which will take place in Athens, Greece, from 23 – 26 April 2012. TRA 2012 is organised by the Greek Ministry of Infrastructure, Transport & Networks, the EC, ERTRAC, ERRAC and WATERBORNE TP and CEDR. TRA 2012 will for the first time, deal extensively with all surface transport modes: road, rail and waterborne, and underline interlinks between them.

At this conference you will meet representatives of the surface transport modes from industry, public authorities (national and local) and from the research providers.

CEDR draws your attention to two important strategic sessions taking place on the first day of TRA2012 on **Monday 23rd April 2012, 14:30 - 15:45:**

- STS3: Infrastructure for the 21st century and
- STS1: Innovation in Transport: new trends from the EU.

STS3: Infrastructure for the 21st century will discuss the steps that must be taken before 2025-2030 to renew infrastructure for transport in order to achieve an affordable and advanced European mobility network. Innovative approaches will be presented which are based on governance and business models. These models compare and evaluate due investments as well as prices versus performances. This session will be chaired by Dr Hans Jeekel; speakers will include Mr J. H. Dronkers, Director General Rijkswaterstaat, Netherlands, Mr Graham Dalton, Chief Executive Highways Agency, UK, and Mr Claude Van Rooten, Director General, BRRC, Belgium.

STS1: Innovation in Transport: new trends from the EU will discuss The Strategic Transport Technology Plan (STTP), as well as Horizon 2020 which is the new Framework Programme that will cover all research and innovation activities of the EU as of 2014. This legislative proposal was adopted by the European Commission on 30th November 2011. The session will be chaired by Mr Liam Breslin; speakers will include Mr Fotis Karamitsos, EC, DG Mobility & Transport, Acting Director and Mr Andras Siegler, EC, DG Research & Innovation, Director.

With 5 plenary sessions, 12 strategic sessions, over 80 thematic and special sessions, as well as six poster sessions, the programme will give you plenty to look for during TRA2012.

Do not forget to visit the exhibition area. CEDR's booth is at the entrance of the Nikos Skalkotas Hall. There you will be able to network with representatives of the National Road Administrations and discuss in depth CEDR's latest position papers, best practice guides, and publications. We trust that you will leave CEDR's stand convinced that the benefit of CEDR's activity is reflected in Europe in **more efficient National Road Authorities**, an **improved contribution of road transport** to the wider economy, **safer transport**, and a **more harmonious relationship** among road transport, transport users, the environment, and society.

CEDR looks forward to seeing you in Athens in the near future for TRA2012.

Dr Skrinckas Skirmantas
Chairman of CEDR

<http://www.cedr.fr>

YEAR 2012 – finalists and judges now selected!



YEAR 2012 - The Young European Arena of Research 2012 is a competition for early-stage researchers across Europe. The competition, now in its third edition, has been enlarged to include all surface transport modes (rail, road, and waterborne) and has received generous support from the European Commission (7th Framework). The competition aims to identify the top-performing early-stage researchers and acknowledge their achievement, build them a vibrant community across Europe, promote interaction between different areas and countries, as well as stimulate the imagination of delegates at TRA2012 and provoke discussions on the future of transport and transport research.

The competition gives students the opportunity to showcase their work to experts within the field, both on the web and, for the best applicants, at TRA2012. More than 350 students submitted their abstract online and 67 judges selected the eight best applicants in each pillar. The 30 top students (listed below) from the UK, Ireland, Italy, France, Switzerland, Germany, Greece, Netherlands, Portugal and Sweden were then invited to attend TRA2012 to display their research. The Pillar Leaders (shown in the table below) and their deputies will interview all the finalists prior to the TRA2012 awards ceremony on Monday 23rd April 2012 and select the Gold, Silver and Bronze medallist for each Pillar. The Gold medallists for each Pillar will receive €1,000, the Silver medallists €500 and the Bronze medallists €250 from Mrs. Máire Geoghegan-Quinn, European Commissioner for Research, Innovation and Science. Read more about YEAR2012 at <http://year2012.traconference.eu/>

PILLAR LEADERS

Pillar	Name	Organisation
Governance of the Transport System (I)	<i>Joris Al</i>	President of FEHRL; Director, International Affairs, Rijkswaterstaat, the Netherlands
Transport, mobility and Infrastructure (II)	<i>Patrick Mercier-Handisyde</i>	European Commission, DG Research and Innovation
Safety & Security (III)	<i>Dr Angelos Bekiaris</i>	President, FERSI; Research Director, HIT, CERTH, Greece
Energy, Environment & Resources (IV)	<i>Dr Ken Rose</i>	Co-Chair of the Energy & Environment Working Group, ERTRAC; Technical Coordinator for Fuels and Emissions, CONCAWE, Belgium
Design and Production (V)	<i>Dr Josef Affenzeller</i>	Chairman, EARPA; Director of Research Coordination, AVL, Austria; member of ERTRAC
Complementarities of transport modes (VI)	<i>Jean-Pierre Medievelle</i>	President, HUMANIST (IFSTTAR), France

30 TOP STUDENTS

Governance of the Transport System

- *Craig Morton*, University of Aberdeen, Scotland, "Diffusion Analysis of the Emerging Consumer Market for Low Emission Vehicles"
- *Rawia El Raishidy*, University of Leeds, United Kingdom, "Resilience Assignment Framework using System Dynamic and Fuzzy Logic: an illustration using motorway traffic data"
- *Jelena Simicevic*, University of Belgrade, Serbia & Montenegro "Parking Search Problem"
- *Gillian Harrison*, University of Leeds, United Kingdom, "Implementing an ethical approach to alternative fuel uptake"
- *Lukasz Porwol*, National University of Ireland, Galway, "Ireland Solving city transport issues through public engagement"

Transport, Mobility and Infrastructure

- *Nan Zheng*, EPFL, Switzerland, "A Dynamic Cordon Pricing Model – A New Robust and Effective Road Pricing Model"

- *Cinde Andrie*, IFSTTAR, France, "Speed Profiles functional modelling for driving behaviour and infrastructure evaluation"
- *Joe Keogh*, Dublin Institute of Ireland, Ireland, "Vertical Response Of A Footbridge Subjected To Stochastic Crowd Loading"
- *Marcelo Blumenfeld*, University of Leeds, United Kingdom, "Superlev – Concept of urban maglev transportation system for megacities"
- *Danny Robles*, KTH Royal Institute of Technology, Sweden, "Optimal signal control with multiple objectives in traffic mobility and impacts"

Safety and Security

- *Hans Liwang*, SNDC and Chalmers, Sweden, "Risk analysis for shipping under piracy threat"
- *Maria Louadaki*, University of Leicester, United Kingdom, "The safety concept in a network assisted vehicle (NAV) Architecture"
- *Anthony Winterlich*, National University of Ireland Galway, Ireland, "Evaluation of the effect of image artefacts on pedestrian detection in an automotive environment"
- *Miltos Kyriakidis*, Imperial College of London, United Kingdom, "A Human Performance operational railway index to estimate operators' error probability"
- *Yan Yang*, University of Southampton, United Kingdom, "The effect of increased workload on driving performance and visual behaviour."

Energy, Environment and Resources

- *Pattarapong Choopanya*, University of Sussex, United Kingdom, "Investigating the Internal Flow Fields of a polymer electrolyte membrane fuel cell (PEMFC) Under transient automotive operation"
- *Ana Ferreira*, IDMEC/IST Institute of Mechanical Engineering, Portugal, "Energy consumption and CO2 emissions analysis of alternative hydrogen fuel production pathways"
- *Francesco Pilla*, Trinity College Dublin, Ireland, "Sustainable cities inhabitants' exposure: Real time measurement with a mobile network of sensors"
- *James Bonsall*, University of Bradford, United Kingdom, "What lies beneath: Identifying buried archaeology before road construction using non destructive geophysical methods"
- *Pejman Keikha*, University of Nottingham, United Kingdom, "Pavement as a source of Heating and Cooling"

Design and Production

- *Kai Tejkl*, University of Stuttgart, Germany, "Dynamic Measurement and modelling of road characteristics"
- *Riccardo Pancioli*, University of Bologna, Italy, "Hydroelasticity in Hull's slamming"
- *Romain Pasquier*, EPFL, Switzerland, "Reducing uncertainties regarding the remaining life of monitored transport infrastructure"
- *Vincenzo Giamundo*, University of Napoli Federico II, Italy, "Seismic assessment of reinforced concrete arch bridges"
- *Sotitios Grammatikos*, University of Ioannina, Greece, "Critical and subcritical damage monitoring bonded composite repairs using innovative non-destructive techniques"

Complementarities of Transport Modes

- *Scott Cruickshanks*, University of Southampton, United Kingdom, "Will privacy barriers limit the uptake of future Intelligent Transport Systems"
- *Lijun Wei*, University of Technology de Belfort Monteliard, France, "To enhance vehicle localization robustness in dense urban environment using multiple sensors"
- *Gerry Murphy*, University College Dublin, Ireland, "Investigation of Experimental Marine Foundation Systems to Improve the lateral stability of Monopile Foundation"
- *Malek Al-Chalabi*, University College London, United Kingdom, "Travel Transitions: A journey from the past and implications for the future"
- *Berk Anbaroglu*, University College London, United Kingdom, "Detecting Emerging Non-Recurrent Traffic Congestion"

Prizes will also be given for the Vision Olympics competition (organised by the Waterborne Technology Platform) by Mr. Bernard Meyer, CEO of cruise ship builder Meyer Werft, at the same ceremony on Monday 23rd April 2012 and on Wednesday 25th April 2012 by *Prof. Panos Papaioannou*, Chairman of the Programme Committee for TRA2012.

More than 20 exhibition booths booked –book yours now!

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See the list below for an overview of confirmed exhibitors and <http://www.traconference.eu/Exhibition-Plan/exhibition-plan.html> for an exhibition floor plan.

Confirmed exhibitors (and number of booths booked)

- CEDR (x3)
- CERTH
- EL. Kokinakis
- Elsevier
- ERRAC/UIC
- ERTRAC
- European Commission (x2)
- FEHRL
- French Ministry of Transportation
- Greek Concessionaires
- Greek Ministry of Infrastructure Transport and Networks
- PIARC
- Swedish National Road and Transport Research Institute
- University of Patras
- Waterborne
- World Road Association German National Committee (x2)

The exhibition will be opened by *Mrs. Máire Geoghegan-Quinn*, European Commissioner for Research, Innovation and Science, at midday on the first day of TRA2012 (Monday 23rd April 2012).

In addition, a few rooms are still available for groups to book workshops in parallel to the official TRA2012 programme. Contact Nikos Toleris of the Organising Committee at n_toleris@hotmail.com for more details.