



Transport Research Arena • Europe 2012

Sustainable Mobility through Innovation

FINAL PROGRAMME

**23-26 April,
2012**
Megaron AICC,
Athens, Greece



**For a greener, safer, and smarter
surface transport for Europe**

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Welcome from the Minister



It is my pleasure to invite you to the fourth Transport Research Arena (TRA) Conference, to be held in Athens, Greece, from 23rd to 26th of April, 2012.

TRA2012 aims to enable the exchange of knowledge among experts from different disciplines

through research findings, thus promoting future opportunities in the transport sector.

Enabling the free movement of people and goods is crucial to economic prosperity and quality of life. In today's Europe, which is plagued by a series of economic and social malfunctions, good transport facilities certainly lead to social prosperity. Mobility is perhaps the single greatest global force in the quest for equality of opportunities because it offers access to better social connectivity, health care, education and economic opportunities.

By its geopolitical position, Greece forms an important part of the European and trans-continental transport network, bringing together Europe, Asia and Africa. Transport in Greece has undergone significant improvements in

the past two decades, vastly modernizing the country's infrastructure.

While emphasizing the need and seeking for extended and integrated transport systems, we should simultaneously accept the limits imposed by the available resources and the carrying capacity of the environment. Innovation is an one way road to make transport more efficient, safer and environmentally friendlier. Research and new technologies is the main tool to succeed a greener, safer and smarter surface transport.

TRA2012 is a great opportunity for all transport stakeholders to give a boost to European and Global Transportation through the exchange of knowledge and experiences, as well as by developing co-operations and business in the days of the Conference.

Therefore, I invite you to Athens from 23rd to 26th of April 2012 to broaden your knowledge and co-operations, while experiencing the Greek hospitality and the beauties of our country.

Makis Voridis

Minister of Infrastructure, Transport and Networks, Greece

Welcome from the Mayor of Athens



As Mayor of the Hosting City, it is my pleasure and honor to invite and welcome you to the works of the fourth Transport Research Arena (TRA) in Athens, on the theme of Sustainable Mobility through Innovation.

Sustainable Mobility and Innovation are both necessary and valuable components for the life of contemporary cities and prospering societies. The Hosting City, Athens, is currently seeking smart solutions to challenges which for many years have contributed to the development and shape of its present image and identity. The gathering of the best European researchers and pioneer entrepreneurs in the field of sustainable mobility

and innovation in the TRA conference will most certainly provide us with inspiration and will enlighten us in our effort to improve our living and working environment. Furthermore, we believe that it will make Athens an exemplary destination combining business, civilization and recreation.

It is our wish that you fully enjoy the works of the conference, that new opportunities and co-operations be developed in the field of mobility and innovation, and that your stay in our city which is rich in history, memories and activities will be a unique experience to be remembered forever.

Giorgos Kaminis

Mayor of Athens

**Siim Kallas**

Vice-President of
the European Commission
responsible for Transport

**Neelie Kroes**

Vice-President of
the European Commission
responsible for the Digital Agenda

**Maire Geoghegan-Quinn**

Commissioner for Research,
Innovation and Science

Welcome by the European Commission

It is our pleasure to invite you to the fourth European Transport Research Arena, TRA2012.

TRA is not just a conference but an arena which aims at bringing together European stakeholders from all areas of transport and transport-related activities. It is with a great satisfaction that we welcome the initiative taken on the occasion of TRA2012 to extend the scope of the conference to all modes of surface transport: road, rail and waterborne. A renewed TRA, covering all transport modes but also urban transport planning and mobility as well as co-modality, is precisely what the European Commission was calling for. This will happen in Athens in 2012.

The sustainable mobility of passengers and goods, in towns, in our regions and countries throughout the continent and beyond, needs an efficient and reliable European transport system.

Innovation is essential for this. As stated in the White Paper "Roadmap to a Single European Transport Area – Towards a competitive and resource efficient transport system" presented by the European Commission in 2011, EU research needs to address the full cycle of research, innovation and deployment in an integrated way by focusing on the most promising technologies and bringing together all the actors involved. Innovation can also play a role in promoting more sustainable behaviour.

TRA2012 aims not only to present the latest achievements of European research, but above all at to provide a venue and forum where the technological developments needed for the next decades are discussed and debated.

Knowledge, too, needs to circulate efficiently, without bottlenecks, if we are to boost innovation. Today, in Europe, we are facing an innovation emergency. That is why the European Commission has placed Research and Innovation at the heart of the Europe 2020 Strategy. A step change in Europe's innovation performance is needed, in transport as in other domains. TRA2012 will be a unique platform for stakeholders – European, national, regional and urban, public and private – to start mobilising towards well-defined goals in the frame of transport innovation partnerships.

TRA2012 in Athens will have a new dimension. The opportunity is to create a truly European transport research and innovation arena where innovative technologies of tomorrow are presented and discussed with the aim of achieving the goals of the European transport policy.

We are sure that you will be inspired by the presentation of advanced European Transport research as well as by the demonstrations of cutting-edge technologies that hold the promise to improve the mobility of passengers and goods. Technologies like the ones on show will make transport greener, safer and smarter.





George Molitor
Chairman of CEDR



Wolfgang Steiger
Chairman of ERTRAC



Andrew McNaughton
Chairman of ERRAC



Govert Hamers
Chairman
of WATERBORNE TP

TRA2012 welcome note from CEDR And The ETP's

On behalf of the Conference of European Directors for Roads (CEDR), of the European Road Transport Research Advisory Council (ERTRAC), of the European Rail Research Advisory Council (ERRAC) and of the European Technology Platform Waterborne (Waterborne TP), it is our great pleasure to invite you to the fourth Transport Research Arena, TRA2012, which will take place in Athens, Greece, from 23 – 26 April 2012.

TRA2012 for the first time, deals extensively with all surface transport modes: road, rail and waterborne, and underline interlinks between them.

This conference brings together representatives of the surface transport modes from industry, public authorities (national and local) and from the research providers.

The main theme for TRA2012 in Athens is Sustainable mobility through innovation.

The main objective of the TRA2012 is to contribute to innovation in sustainable mobility for Europe, by bringing together all the stakeholders of the transport system. The TRA gives the opportunity to the road, rail and maritime sectors to address common challenges and share knowledge in order to deliver together a greener, safer and smarter transport system. In pursuing its objective of sustainable mobility for

Europe, the TRA enhances the global competitiveness of the European Union, by promoting the three aspects of the knowledge triangle: Research – Education – Innovation.

TRA2012 covers a wide spectrum of research and innovation activities. These range from basic sciences to application oriented engineering and represent social, technical and economic aspects, as well as policy and standards. The TRA also address demonstration activities.

TRA2012 continues its tradition and hold an early-stage research student competition with the goal of stimulating the interest among young researchers in the conference.

The TRA2012 program is organised into six pillars built around the European research and innovation strategies while emphasising on the issues of climate change, CO² reduction, fuel efficiency and supply.

Innovation in transport in Europe requires a multi-stakeholder and multi-disciplinary approach and so we invite you to share in and contribute towards this great challenge for a sustainable future in transport that lies ahead of us.

We do sincerely welcome you at this innovative and exceptional event and share the information at your disposal. It is, as always, the perfect opportunity to discuss the future of transport in Europe with all the stakeholders concerned.



Welcome from the Chairman of the TRA2012 Management Committee

As the Chair of the Management Committee for TRA2012, I would like to extend an invitation to the international transport community for our conference in Athens in April 2012. Our team is proud to be in charge of such an important event in the sector of transportation and we look forward to its successful organization and implementation, keeping the same high standards of previously held TRA conferences.

TRA2012 is an initiative of European origin that aims at highlighting and showcasing international research in transport-related areas. TRA2012 has engaged world-known academics and practitioners from the area of Transport in order to man its scientific and management committees. It will offer a great opportunity to international researchers to present their work – whether theoretical or applied – after a peer-reviewed selection process and get feedback from some of the best people in their field.

TRA2012 enables researchers and transportation

practitioners from around the globe to get together and exchange ideas and thoughts on some of the most pressing problems that the Transport sector is facing in our times.

TRA2012 facilitates the interaction between researchers and industry representatives; it will provide an opportunity for the private sector to partner/cooperate with leading researchers in practical applications and/or breakthrough solutions in the field of transportation.

TRA2012 is also an excellent opportunity for a combination of business with a recreation break in Athens and the nearby Greek islands.

In such difficult times for the world community, progress can and will always be sought after through research and the finding of solutions that increase the quality of life in our societies. Towards this greater goal, we aim to provide our services through the successful organization and implementation of TRA2012.

Sergios Lambropoulos

Secretary General for Concessions

Chairman of the TRA2012

Management Committee



Conference Objectives *'Sustainable mobility through innovation'*

This is the main theme of the 2012 Transport Research Arena (TRA) which takes place in Athens at the Megaron International Conference Centre from 23 to 26 April 2012.

For many years now, the transport sector plays a growing and catalytic role in a rapidly changing world where economic, political, social, and environmental objectives have to be met to ensure a consistently high level of welfare for society. In Europe and all over the world, transport affects our day-to-day life in many different ways. Our personal or business decisions are often influenced by the availability or the lack of transport alternatives. Transport systems develop and evolve continuously to satisfy our needs and boost economy. In this respect many different aspects dealing with infrastructure, vehicles and vessels, the environment, and many more need to be addressed. All of these have been the subject of extensive studies and research conducted by universities, research institutes, practitioners, and authorities in a variety of different disciplines. However, there is still a lot to explore and learn.

The Transport Research Arena serves exactly this purpose i.e. to enable the exchange of knowledge among those who play an active role in the transport sector and to promote the

dissemination of research findings, best practice, and application techniques which have been successfully implemented in parts of the world. At the same time, it provides experts from different disciplines with a forum for creative discussions about the future of transport at a location where Greek philosophers debated the burning issues of the day some 25 centuries ago.

TRA2012 focuses for the first time on all surface transport modes with the exception of overseas shipping. It is supported by the European Commission (EC) and the main transport industry stakeholders in Europe namely:

- the Conference of European Directors of Roads (CEDR),
- the European Road Transport Research Advisory Council (ERTRAC),
- the European Rail Research Advisory Council (ERRAC),
- the European Technology Platform Waterborne (WATERBORNE)

TRA2012 seeks to reflect the multidisciplinary nature of the transport sector and, for this reason, addresses all stakeholders in both the public and private sectors and all professionals, regardless of their roles, researchers, practitioners, designers, constructors, operators and administrators.

Conference Structure

TRA2012 conference structure is organised into six main pillars built around the European and innovation strategies while emphasizing on climate change, CO₂ reduction, fuel efficiency and supply. The six pillars are:

PILLAR I: **Governance of the transport system**

PILLAR II: **Transport, mobility and infrastructure**

PILLAR III: **Safety and security**

PILLAR IV: **Energy, environment and resources**

PILLAR V: **Design and production (vehicles, vessels and infrastructure)**

PILLAR VI: **Complementarities of transport modes**

In total some 85 different topics are addressed assembled in 47 thematic sessions.

Conference Programme

TRA2012 conference programme is made up of 5 different session types:

- **plenary sessions**, where personalities from European policy agencies, transport industry and academia, address some of the most important issues in the transport sector and the transport sector's role in future society;
- **strategic sessions**, where invited experts from the European Commission, the TRA stakeholders and different organisations and agencies all over the world speak and discuss about many of

the most cutting edge transport issues;

- **thematic oral sessions**, where paper authors present their research work and/or application in the transport sector falling in one or more of the topics chosen for this conference;
- **thematic poster sessions**, where authors present on posters their work and/or research project results and conference participants can meet authors for creative discussions;
- **special sessions**, where issues of special interest in the transport sector are presented and promoted by the session organising institutions, agencies or project consortia.

Conference Proceedings

All TRA2012 thematic papers (oral and poster) will be available at the ELSEVIER Procedia "Social and Behavioral Science - TRA2012 Special Issue", accessible through

Internet (www.elsevier.com/locate/procedia). Necessary e-publication requirement is one registration per paper. Certain exceptions apply.



List of topics per pillar

PILLAR I: Governance of the transport system

- Robustness and resilience in transport systems
- Liberalisation of transport markets
- Transport policy and economics
- Demand management
- Users' needs and expectations
- Customer satisfaction
- Transport infrastructure and systems financing
- Transport infrastructure procurement and legal issues
- Standardization in transport
- Strengthening competitiveness in transport
- International harmonisation of transport

PILLAR II: Transport, mobility and infrastructure

- Transport infrastructure management and operation
- Transportation planning and modelling
- Traffic modelling and simulation
- Urban public transport systems
- Long distance passenger transport
- Accessibility in transport
- Traffic management
- Mobility management
- Pedestrian modelling and simulation
- Pedestrian and cycle path facilities and provisions
- Inland facilities and provisions to environmental friendly modes
- Long distance freight transport
- Urban freight transport
- Maritime transport
- Inland waterways transport
- Automation in transport systems
- Cooperative systems I
- Inland waterways infrastructure

PILLAR III: Safety and security

- Integrated safety and security for surface transport systems
- Safety assessment
- Vulnerable road users' safety
- Incident Management
- Emergency management
- Crashworthiness
- Self explaining and forgiving roads
- Safety and security in maritime and inland transport
- Railway safety and security
- Tunnel safety and security
- Traffic Law Enforcement Cross border enforcement
- Vehicle-Driver Interaction
- Cooperative systems II

PILLAR IV: Energy, environment and resources

- Integrated transport and land use planning
- Landscape and environment design
- Energy harvesting
- Energy efficient asset management
- Electromobility for road transport
- Electromobility for waterborne transport
- Advanced propulsion systems
- Noise mitigation
- Air quality
- Water quality
- Alternative fuels for transport
- Climate change mitigation

PILLAR V: Design and production (vehicles, vessels and infrastructure)

- Pavement construction and management
- Bridge and tunnel design and construction
- Construction management for transport infrastructure
- Railway design, construction and maintenance
- Reliability and robustness of the infrastructure
- Electric vehicles
- Infrastructure for electrified transport
- Advanced vehicle technology and high speed rail
- Advanced maritime vessel technology
- Advanced vessel and marine tracking solutions
- Advanced inland navigation vessels
- Advanced road vehicle technology
- Design and manufacturing for advanced vehicles
- Adaptation to climate change
- Intelligent road infrastructure
- Certification aspects in transportation
- Control centre technology
- Advanced monitoring techniques
- Improved maintenance techniques

PILLAR VI: Complementarities of transport modes

- Socio-economics issues in multi modal transport
- Intelligent Transport Systems
- Travel behaviour and cultural aspects
- New transport and mobility concepts and services
- Logistics and intermodal transport
- Interoperability in Transport Systems
- Multimodal corridors
- Sea / Inland ports and terminals



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Philippe Vezin	France
Jordi Vinolas Prat	Spain
Eric Violette	France
Stephane Vitet	Germany
Manos Vougioukas	Greece
Ilias Vouitsis	Greece
Smiljan Vukanovic	Germany
Peter Wagner	Germany
Yun-pang Wang	Germany
Joachim Winter	Germany
Ken Wittamore	United Kingdom
Jradziszewska Wolinska	Poland
Richard Woodward	United Kingdom
Yiannis Xenidis	Greece
George Yannis	Greece
Joël Yerpez	France
Donato Zangani	Italy





YEAR 2012 (Young European Arena of Research)

TRA2012 repeats the successful young researchers' competition, the well-known YEAR (Young European Arena of Research). The purpose of this competition is to motivate and encourage young researchers from all European states by providing them a European platform for their ideas and research work for the benefit of greener, safer, and smarter surface transport for Europe.

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 have been invited to attend TRA2012 to display their research. The Pillar Leaders 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.

Prizes announcement

The Gold medalists for each Pillar will receive €1,000, the Silver medalists €500 and the Bronze medalists €250. The awards will be presented by Commissioner Maire Geoghegan-Quinn, European Commissioner for Research, Innovation and Science.

The YEAR competition and the TRA2012 conference are funded by the European Commission under the Seventh Framework Programme.



The 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

- Maria Loukadaki, 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."



The 30 Top Students (Continued)

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 Branford, 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 Panciroli, 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 of Oxford, 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"

TRA2012 Welcome Reception



The Welcome Reception event of the TRA2012 Conference will take place at the Banqueting Hall (level-2) of the Megaron Athens International Conference Center, on the first day of the Conference, April 23rd 2012, at 20:00

Participants will have the opportunity to listen to **Mr Robert Skinner Jr**, the Executive Director of the **Transport Research Board (TRB)** of the National Academies of Sciences and Engineering of the USA.

Mr Skinner will speak about the international transport research cooperation program and policies of the TRB, the benefits that emerge from international events such as the TRB Annual meetings and TRA Conference and about the future TRB plans including EU-US cooperation.

Prof. Sergios Lambropoulos, Chairman of the TRA2012 Management Committee and Mr Alessandro Damiani, Head of Unit, DG Research & Innovation, Transport Research – Horizontal aspects, of the European Commission, will welcome conference participants and guests who will enjoy modern music as well as cocktails and finger food at a pleasant environment.

	Alexandra Trianti Hall	Nikos Skalkotas Hall	MC 2	MC 3	MC 3.2	
MONDAY						
9:30 - 11:00	Opening Ceremony					
11:00 - 11:30	YEAR 2012 - Students' competition + Visions Olympics Competition - Presentation of awards					
11:30	Official opening of the TRA2012 Exhibition					
11:30 - 12:00						
12:00 - 13:15	Plenary Session No1: "EU 2020 objectives on transport innovation: from research to deployment"					
13:15 - 14:30						
14:30 - 15:45	STS1: Innovation in Transport: new trends from the EU	STS2: Rail vision for the future		STS3: Infrastructure for the 21st century		
15:45 - 16:15						COFFEE BREAK
16:15 - 17:30		THS1: Client Focused Road Maintenance (P I)	THS2: Railway safety (P III)	THS3: Urban Public Transport (P II)	THS4: Transport Modeling and Simulation I (P II)	
17:30 - 18:45		THS7: Financing of Transport Infrastructure (P I)	THS8: Maritime safety (P III)	THS9: Walking and Cycling (P II)	THS10: Transport Modeling and Simulation II (P II)	THS11
18:45 - 20:00						
20:00 - 22:00						OPENING CEREMONY
TUESDAY						
9:00 - 10:15	Plenary Session No2: "Competitiveness of the European transport industries"					
10:15 - 11:00						COFFEE BREAK
11:00 - 12:15	STS4: Cooperation of European, national and regional programmes in surface transport	STS5: Efficient intermodal freight transport and logistics		STS6: Sustainable mobility in cities		
12:15 - 13:45						
13:45 - 15:00	SPS2: Railway Safety & Security	THS13: Competition in Transport Business (P I)	THS14: Safety on Driver-oriented issues (P III)	THS15: Freight Transport I (P II)	THS16: Vulnerable users (P III)	
15:00 - 15:30						COFFEE BREAK
15:30 - 16:45	STS7: Intelligent Transportation in a Connected Society	STS8: Integrated Transport from the travellers' perspective		STS9: Efficient and interoperable railways		
16:45 - 18:00	SPS3: Debate between the most important Greek Road concessionaires	THS19: Efficient Transport Policies (P I)	THS20: Safety Assessment (P III)	THS21: Freight Transport II (P II)	THS22: Cooperative and Automated Systems (P II)	THS23
18:15 - 19:30		SPS4: The European Bus of the Future	SPS5: Green corridors in Europe	SPS6: Sustainable Mobility in Action with CIVITAS: Innovative mobility solutions for sustainable urban transport in Europe	SPS7: Cost-effective improvement of rail transport infrastructure	SPS8
20:00 - 23:00						GALA DINNER: AT THE MEGARON
WEDNESDAY						
9:00 - 10:15	Plenary Session No3: "Decarbonisation and future energy forms in transport"					
10:15 - 10:30	Presentation of TRA2012 Best Paper Awards & Eltis Award					
10:30 - 11:00						COFFEE BREAK
11:00 - 12:15	STS10: Transport research cooperation and R&D trends around the world	STS11: WATERBORNE Industries Competitiveness		STS12: The Future of Road transport electrification		
12:15 - 13:45						
13:45 - 15:00		STS13: Road Safety: A decade of Action	THS25: Infrastructure Management (P II)	THS26: Transport Policy for Sustainability (P I)	THS27: Mitigating Noise Pollution (P IV)	THS28
15:00 - 15:30						COFFEE BREAK
15:30 - 16:45	SPS13: The way forward for European Transport Research (Horizon 2020)	THS30: Transport Mode Shifts (P I)	THS31: Safety on Vehicles oriented issues I (P III)	THS32: Mobility & Accessibility I (P II)	THS33: Energy and Emissions Modeling I (P IV)	THS34
16:45 - 18:00		THS36: User Demand on Transport Services (P I)	THS37: Safety on Vehicles oriented issues II (P III)	THS38: Mobility & Accessibility II (P II)	THS39: Energy and Emissions Modeling II (P IV)	THS40
18:15 - 19:30		SPS15: Development of the European Road Safety Observatory - The DaCoTA project	SPS16: iMobility Forum Research & Innovation Recommendations 2011-2020	SPS17: Transport, NMP and ICT NCP Networks join forces: aiming towards an improved participation of European organizations in the FP7	SPS18: The path to the European Road Transport Electrification - The Contribution of CAPIRE	SPS19
20:00 - 23:00						FAREWELL RECEPTION
THURSDAY						
9:00 - 10:15		THS42: Robust and Resilient Transport Systems (P I)	THS43: General safety approaches (P III)	THS44: Traffic Management (P II)	THS45: Innovative Electromobility Schemes (P IV)	THS46
10:15 - 11:00						COFFEE BREAK
11:00 - 12:15	Conference Conclusion and Closing Ceremony - Round table on "Preparing the future of an integrated transport system for Europe"					
12:15 - 12:30	Handing over from TRA 2012 to TRA 2014					
12:30 - 13:45						
13:45 - 15:00		SPS24: Research and Innovation Policies to enhance uptake of Sustainable Transport Solutions	SPS25: Public Private Partnerships' For Transport Infrastructure: Theory & Practice	SPS26: Transport planning and traffic information systems in cities	SPS27: Working on Active Safety Systems: The euroFOT and interactive projects	SPS28
15:00 - 15:45						COFFEE BREAK
15:45 - 17:00		SPS30: New solutions for sustainable distribution of freight in Urban Areas	SPS31: Cooperative Systems deployment from the Road Operators point of view: The FOTis project	SPS32: Safety of Vulnerable Road Users (VRU's)	SPS33: Innovation and research for a more competitive European rail sector: Horizon 2020	SPS34

CONFERENCE ROOMS

LEGEND

Plenary 

Strategic 

Social Events 

Special Sessions 

MC 3.3	MC 3.4	MC 3.5	Petrou Kokkali	Conference I	Level -1 (N. Skalkotas Hall Level)	Exhibition Hall
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23 APRIL 2012

COFFEE BREAK						
LUNCH						
WORK IN THE EXHIBITION HALL						Operation of Exhibition
TH55: Road vehicles (P V)	TH56: Emissions Control and Alternative Fuels (P IV)			SPS1: New perspectives in transport research in Turkey - Rail sector	Poster Pillar IV (14:00 - 18:00)	
TH51: Railway design and construction (PV)	TH512: New transport and mobility concepts (PVI)					
BREAK						
CELEBRATION RECEPTION - EVENT						

24 APRIL 2012

WORK IN THE EXHIBITION HALL							Operation of Exhibition
LUNCH							
TH517: Pavement modeling (P V)	TH518: Moving More Efficiently (P IV)				Poster Pillar VI (09:00 - 13:00)		
WORK IN THE EXHIBITION HALL						Operation of Exhibition	
TH23: Rail and maritime vessels (P V)	TH524: Travel behavior and cultural aspects (P VI)				Poster Pillar III (14:00 - 18:00)		
TH58: Greener Merchant Shipping: The Poseidon project	SPS9: The largest study of driving behavior ever conducted: SHRP 2 & NDS	SPS10: Measuring Carbon Footprint of Freight Transport Chains	SPS11: Automated driving	SPS12: ICT for sustainable logistics: best practices and roadmap to 2020			
DINNER AT THE NEW ACROPOLIS MUSEUM RESTAURANT							

25 APRIL 2012

WORK IN THE EXHIBITION HALL							Operation of Exhibition
LUNCH							
TH528: Pavements and environment (P V)	TH529: Logistics and intermodal transport (PVI)				Poster Pillar I (09:00 - 13:00)		
WORK IN THE EXHIBITION HALL						Operation of Exhibition	
TH534: Assessment of bridges and tunnels (P V)	TH535: Safety infrastructures related issues I (P III)				Poster Pillar II (14:00 - 18:00)		
TH540: Pavement maintenance and operation (P V)	TH541: Transport Decision Support & User acceptance (P VI)		SPS14: Gender Issues in Transportation - Bridging the Gap				
TH519: Strategic Research for Innovative Marine Propulsion Concepts: The STREAMLINE project	SPS20: The Talent Challenge in Electro Mobility	SPS21: Developing the European Transport Research Alliance (DETRA)	SPS22:ERRAC Roadmaps	SPS23: Maritime Safety: The Pro-active Way Forward			
RECEPTION AT AEGLI ZAPPEIΟΥ							

26 APRIL 2012

WORK IN THE EXHIBITION HALL							Operation of Exhibition
LUNCH							
TH536: Combined infrastructure and vehicle effects (P V)	TH547: Safety infrastructures related issues II (P III)				Poster Pillar V (09:00 - 13:00)		
WORK IN THE EXHIBITION HALL						Operation of Exhibition	
TH528: European maritime collaboration through exchange of service, technology and information: The EuroVIP project	SPS29: Trends in Maritime Logistics and Port Operations						
TH534: The EC EXTREME SEAS Project	SPS35: Building up the future infrastructure networks in Europe		SPS36: Presentation of the Greek pilot site HeERO, the pan-European in-vehicle emergency call service 'eCall' based on 112				



Opening Ceremony



Alexandra Trianti Hall



09:30 - 11:00

Master of Ceremonies: Prof. Sergios Lambropoulos, Chairman of the TRA2012 Management Committee

- **Mrs. Maire Geoghegan-Quinn**, Commissioner for Research, Innovation and Science
- **Mr. Siim Kallas** (video message), Vice-President of European Commission, Commissioner for Mobility & Transport
- **Prof. Wolfgang Steiger**, Director Future Technologies, Group External Relations at Volkswagen AG, Chairman of ERTRAC
- **Prof. Andrew McNaughton**, ERRAC, Chairman
- **Mr. William Laros**, WATERBORNE TP, Chairman
- **Dr. Stirmantas Skrinskas**, Director General Lithuanian Road Administration, CEDR

Students Competition Awards



Alexandra Trianti Hall



11:00 - 11:30

YEAR 2012 Students competition

Awards to be handed by:

- **Mrs. Maire Geoghegan-Quinn**, Commissioner for Research, Innovation and Science

Visions Olympics Competition

Awards to be handed by:

- **Mr. Bernard Meyer**, CEO of Meyer Werft shipyards

PLENARY SESSION No 1

EU 2020 objectives on transport innovation: from research to deployment



Alexandra Trianti Hall



12:00 - 13:15

This session will set the scene for the future transport research in the EU and in other countries and will demonstrate the need for bringing even closer research and deployment in the transport sector. It will also stress the important role of Transport in the economic development of Europe and its social and territorial cohesion. Personalities from the European Parliament, the EU Council, the European Commission and from the European transport industry, will deposit their views about

the session theme. Invited speakers will focus on the need for a more effective innovation framework in order to mitigate the effects on the environment from the required mobility level in Europe. The necessary links between education, business, research and innovation will be among others in the heart of this session. Finally the EU Common Strategic Framework (CSF) will provide a common frame to inter-link these different aspects of innovation.

Moderator: Mr. Andras Siegler, Director of the Transport Directorate, DG Research & Innovation · Transport

- **Mrs. Maire Geoghegan-Quinn**, Vice-President of European Commission, Commissioner for Research, Innovation and Science
- **Mrs. Marisa Matias**, Member of the European Parliament, Rapporteur "Horizon 2020"
- **Mr. Nevio Di Giusto**, CEO, Fiat Research Centre
- **Mr. Jean-Pierre Loubinoux**, UIC Director
- **Mr. Jan Hendrik Dronkers**, Director-General, Rijkswaterstaat



Tuesday 24 April 2012

PLENARY SESSIONS

PLENARY SESSION No 2

Competitiveness of the European transport industries



Alexandra Trianti Hall



9:00 - 10:15

Competitiveness is an item very high in the agenda of the European Council and European Commission. Competitiveness can be achieved by a continuous effort of all involved, authorities, industry and other market key players and by industry revolutionary innovations. Many European industries have played a major and pioneering role: clean automotive engines, high speed trains, cruise ships etc. However, Europe needs more research and innovation in order to maintain its global position; new

comers from emerging economies are developing competitive products at low price. To avoid losing market shares, Europe must invest in R&D and develop high technology products that are competitive, meet excellence and are sustainable for the environment. This session will host personalities who will speak about the need for a more competitive environment in the European transport industry and the ways to reach that goal.

Moderator: Mr. Graham Dalton,

- **Mr. Jean-Luc Di Paola-Galloni**, Vice Chairman ERTRAC
- **Mr. Ger Maas**, President of ENCORD and Strategy Director of Royal BAM Groep
- **Mr. Henri Poupart- Lafarget**, Executive Vice President and President of Alstom Transport Sector, Alstom SA
- **Mr. Bernard Meyer**, CEO of Meyer Werft shipyards

Wednesday 25 April 2012

PLENARY SESSION No 3

Decarbonisation and future energy forms in transport



Alexandra Trianti Hall



9:00 - 10:15

Decarbonisation and the use of diversified sources of energy is the most crucial challenge for transport in the years to come. Innovation and technological progress will provide a combination of solutions that require high amounts of research and technological development to become true alternatives to the present transport system that depends on the availability on fossil fuels. The aim will be that towards horizon 2020, a major deployment of

these alternative technologies (e.g. electric cars, the use of second generation bio-fuels, specialized urban vehicles, low emission marine engines, etc) can be initiated. The invited speakers coming from the European commission, leading manufacture industries and World associations will address the above topics and will show the ways to achieve the desired targets.

Moderator: Mr. Fotis Karamitsos, Director, DG Mobility and Transport, European Commission

- **Mr. Peter Biesenbach**, Head of External Relations of Robert Bosch GmbH
- **Mr. John C. Lyras**, Member of the Board and previous President of ECSA
- **Mr. Thierry Valdieu**, New Mobility Programme Director of Renault
- **Mr. Alain Flausch**, International Association of Public Transport, UITP
- **Dr Kenneth Rose**, Technical Coordinator Fuels Quality and Emissions, CONCAWE



Presentation of Best Papers Awards



Alexandra Trianti Hall



10:15 - 10:30

Awards, per Pillar, to be handed to the winners by:

Prof. Panos Papaioannou, Chairman Programme Committee TRA2012

CONFERENCE CONCLUSION AND CLOSING CEREMONY

Thursday 26 April 2012

Preparing the future of an integrated transport system for Europe



Alexandra Trianti Hall



11:00 - 12:15

In the future, to respond to the ever increasing mobility demand, transport solutions must become more and more integrated. In line with the new White Paper on Transport, the long term perspective will be the advent of a European Transport System that is fully interoperable and provides seamless connections between the different transportation modes. The session will look at the future of transport

systems and draw conclusions on research priorities, in relation to the Strategic Transport Technology Plan (STTP). Keynote speakers, holding important positions within the EU will highlight the obstacles of the past and will address the vital steps that should be taken in the near future in order to achieve the goals of an integrated sustainable transport system for Europe.

Moderator: Prof. Mike Mc Donald, Transportation Research Group at the University of Southampton

- **Prof. Phil Blythe**, Newcastle University
- **Mr. George Koumoutsakos**, Member of the European Parliament
- **Mr Makis Vouridis**, Minister of Infrastructure, Transport and Networks, Greece
- **Mr. Matthias Ruete** European Commission, Directorate-General For Mobility And Transport
- **Ms. Lena Erixon**, Deputy Director General, Swedish Transport Administration
- **Prof. Sandra Rosenbloom**, University of Arizona, Chairman of the Transportation Research Board (TRB) Executive Committee
- **Prof. George Giannopoulos**, Director Hellenic Institute of Transport, CERTH / ECTRI / ERTRAC

Handing over from TRA2012 to TRA2014



Alexandra Trianti Hall



12:15 12:30

Handing over ceremony of TRA2012 to the French organisers IFSTTAR who will host TRA2014 in Paris!



Monday 23 April 2012

STRATEGIC SESSIONS

STRATEGIC SESSION No 1

STS1: Innovation in Transport: new trends from the EU



Alexandra Trianti Hall



14:30 - 15:45

To respond to future challenges in transport and achieve public policy goals such as the reduction of oil dependence and the cut of CO₂ emissions set in the new Transport White Paper, Europe must develop better synergies between research and innovation. Parallel to developing competitiveness and efficiency, research and innovation activities carried out in Europe will have to encourage paradigm shifts within the existing transport systems. To engage in the current challenges, efforts are needed to coordinate the activities in the transport innovation chain in order to ensure deployment of innovative solutions. Horizon 2020 is expected to play an important role in this context. This new instrument, which brings together the Framework Programme for Research and Innovation

(FP), the Competitiveness and Innovation Framework Programme (CIP) and the European Institute of technology (EIT), will also address the key transport technologies identified in the Strategic Transport Technology Plan (STTP), a follow up initiative to the 2011 Transport White Paper. Policy instruments will certainly play their part in innovation, but there are other essential contributors such as the availability of research and innovation risk capital through financing engineering and the support for a web of dynamic and high tech transport SMEs. This session will give the forum the opportunity to address all these issues.

Moderators:

- **Mr. Liam Breslin**, European Commission, DG RTD, Head of the Surface Transport Unit
- **Mr. Paul Verhoef**, European Commission, DG MOVE, Head of the Research & Innovative Transport Systems Unit

Key note speeches:

- **Mr. Fotis Karamitsos**, European Commission, DG Mobility & Transport, Acting Director - Directorate C (Innovation & Sustainable mobility)
- **Mr. Andras Siegler**, European Commission, DG Research & Innovation, Director (Directorate H - Transport)

Invited Panelists:

- **Mr. Giovanni de Santi** Director - Institute for Energy and Transport, Joint Research Centre (European Commission)
- **Mr. Jean-Pierre Medevielle**, Chairman of the Humanist VCE and Deputy General Director of IFSTTAR
- **Prof. Dr. Ir. Charles Hirsch**, President NUMECA International



STRATEGIC SESSION No 2

STS2: Rail Vision for the Future



Nikos Skalkotas Hall



14:30 - 15:45

The EC 2011 transport White Paper “Roadmap to a Single European Transport Area – Towards a competitive and resource efficient transport system” has as one of its most clear objectives the encouragement of modal shift toward rail for both freight and passenger use. This objective poses a critical challenge but also a unique opportunity for the rail industry.

Innovation, research, ambition, forward thinking and consensus between all stakeholders will be essential to deliver such modal shift, in particular to address issues such as:

- Increase in capacity required to absorb significantly higher expected demand levels;
- Developing and maintaining competitiveness;
- Meeting customer expectations;
- Delivering value for money services;

The European Rail Research Advisory Council (ERRAC) has put together a series of roadmaps to meet the challenges identified in the Strategic Rail Agenda (SRA) of 2007. ERRAC has recently put the final touches to a new strategic document outlining the railway vision for 2050.

Moderator: Prof. Mark Robinson, Newcastle University

Invited Speakers:

- **Mr. Yves Amsler**, Secretary General’s Projects & Development Advisor, UITP
- **Mr. Josef Doppelbauer**, Vice President Project Management and Chief Technical Officer, Bombardier Transportation
- **Prof. Andrew Mc Naughton**, Network Rail’s Chief Engineer, ERRAC Chairman
- **Mr. Jerzy Wisniewski**, Director – UIC
- **Mr. Eric Fontanel**, General Manager – UNIFE (TBC)

STRATEGIC SESSION No 3

STS3: Infrastructure for the 21st century



MC 3



14:30 - 15:45

This session is about the challenges on our European road and waterway networks. And it is about the answers to these challenges from the road and waterways managers. The main focus will be on innovation. Examples especially

from Norway and programmes like Forever Open Roads from FEHLR will be shown. A forum will reflect on the two keynotes from the perspectives of road management, waterways management and infrastructure research.

Moderator: Dr. Hans Jeekel, Rijkswaterstaat

Invited Speakers:

- **Mr.ing.J. H. Dronkers**, Director General Rijkswaterstaat
- **Mr. Christian Piehler**, Director Transport German Aerospace Centre (DLR)
- **Mrs. M. Brandtsegg**, Director Innovation Statens Vegvesen
- **Mr. Graham Dalton**, Chief Executive Highways Agency
- **Dr. M. Fastenbauer**, Via Donau- Osterreichische Wasserstrassen Gesellschaft mbH
- **Mr. Claude Van Rooten**, Director general, BRRC



Tuesday 24 April 2012

STRATEGIC SESSIONS

STRATEGIC SESSION No 4



Alexandra Trianti Hall



11:00 - 12:15

STS4: Cooperation of European, national and regional programmes in surface transport

Community research plays an important role in establishing new types of cooperation between trans-national partnerships and complementarities of skills but community research only represents a small proportion of research investments in Europe (less than 5%). Reinforced cooperation between national and regional research schemes will be the only way to increase the efficiency of research investments avoiding duplications, reaching

critical mass and enabling harmonisation of technical solutions and standards. In recent years, important steps have been taken with the introduction of ERANETS, ERANET+ and Joint Programming. A good illustration of what needs to be achieved is given by the ERANET + on "electromobility". Efforts need to be pursued in the years to come.

Moderators:

- **Mr. Sean O'Reagan**, European Commission, DG Research & Innovation, Deputy Head of the Joint Programming Unit
- **Alexandra Gurau**, European Commission

Invited Speakers:

- **Mr. Oliver Althoff**, TÜV Rheinland Consulting GmbH (Germany), coordinator of ERA-NET TRANSPORT
- **Dr. Jonas Eliasson**, Centre for Transport Studies, The Royal Institute of Technology (Sweden), coordinator of SURPRICE
- **Mr. Bernard Duhem**, Ministère de l'Écologie, du Développement durable, des Transports et du Logement, Secrétaire permanent du PREDIT
- **Mr. Jon Bernodsson**, Icelandic Maritime Administration, MARTEC
- **Mr. Frederic Sgarbi**, Surface Transport, DG RTD, European Commission, Head of Unit Surface Transport





STRATEGIC SESSION No 5

STS5: Efficient Services for Intermodal Freight Transport and Logistics



Nikos Skalkotas Hall



11:00 - 12:15

This session will investigate the various ways in which integration of freight transport and logistics services may be achieved, the innovative intermodal facilities required, and the extent to which various aspects of intermodal integration may be used towards efficiency and more sustainable freight distribution. Discussion on Intermodal freight and logistics will include innovations, integration of services, technologies and efficiency aspects.

More precisely, this session will look into following topics:

- What is the state of the art? What data and indicators are available or should be developed to monitor the evolution?
- How could efficiency at intermodal platforms be improved? Can innovative transshipment platforms or systems be identified? What is their role for the consolidation of freight volumes? How could synergies with local territories be used? What innovations for cargo handling at hubs?
- The particular case of maritime transport: how could we improve interfaces between ports and their hinterland? What is the role of motorways of the sea?
- What can ICT (information systems, RFID, ...) bring to intermodal transport? In particular, what are their

possibilities for an improvement of planning, but also real-time management of the fleet and the network?

- What is the role of weight and dimensions in this debate? The European Commission is now investigating some updates of the Directive 96/53EC on heavy road vehicles weights and dimensions, published in 1996. The aim is to improve the heavy good vehicles efficiency, to reduce their environmental impact and to facilitate the intermodality of freight transport. Therefore, some provisions on the total vehicle length could be given for aerodynamic devices and 45 ft containers used in short sea and waterborne transport. The impact of such modification on the freight transport efficiency and the intermodal operations will be discussed.

- What are the key bottlenecks to overcome to develop intermodal transport in organisational terms? How should change towards efficient intermodal transport be managed?

Moderator: Ms. Fleur Breuillin, European Commission, D.1 Maritime transport & logistics

Invited Speakers:

- **Mr. Bernard Jacob**, Scientific Deputy Director for Transport Infrastructures and Safety, IFSTTAR (French Institut for Sciences and Technologies on Transports, Development and Networks)
- **Ms. Christiane Geiger**, senior researcher, ITL Institute of Transport Logistics, TU Dortmund University
- **Dr. Georgia Aifadopoulou**, Head of Unit "Intelligent Infrastructure & Demand Management", CERTH / HIT (Centre for Research and Technology Hellas / Hellenic Institute of Transport)
- **Prof. Harilaos Psaraftis**, Professor of Maritime Transport, NTUA (National Technical University of Athens)
- **Mr Sergio Barbarino**, Procter & Gamble
- **Mr George Railakis**, Anek Lines SA, project CLA Synthesis



Tuesday 24 April 2012

STRATEGIC SESSIONS

STRATEGIC SESSION No 6



MC 3



11:00 - 12:15

STS6: Sustainable mobility in cities for passengers

Sustainable urban mobility is a key to better serve the needs of local citizen in their daily life. It is also a challenge for every city in a competitive economy at the regional, national, European and worldwide levels, depending on the size of the city.

Urban mobility should evolve towards greater efficiency. For this purpose, the potential of the most efficient modes of transport - efficient first in terms of energy and space consumption, but also in many other fields like safety or social integration - should be fully exploited in a complementary way. This leads to favor the development of cleaner vehicles and of innovative technologies, especially new technologies of information and communication. This also, and above all, calls for the development of attractive public transport, to be accompanied by an

improved integration between public transport modes, a better coordination between public transport and private car usage, and a strong support to non-motorized modes (cycling, walking...).

Sustainable urban mobility also requires that priorities are given over decades to measures supporting greater accessibility in the urban environment and reducing the dependency on private car use in cities, which have to be prepared by relevant technical and socio-economic research. These measures cover domains which are not only related to transport, but also to land use, institutional coordination, regulatory and fiscal policy.

The strategic session allows for a debate between representatives of public authorities, public transport operators, planners and Intelligent Transport stakeholders.

Moderator: Mr. Sylvain Haon, Secretary General of POLIS

Invited Speakers:

- **Mr. Patrick Vautier**, Marketing and innovation director at RATP
- **Mr. Jarl Eliassen**, Trafikanten AS, Norway
- **Ms. Daniela Rosca**, European Commission, Directorate-General for Mobility and Transport (DG MOVE), Clean transport & sustainable urban mobility
- **Mr. Michael Glotz-Richter**, Transport attaché of the City of Bremen, Free Hanseatic City of Bremen, Senate Department for Environment, Construction, Transport and Europe



STRATEGIC SESSIONS

Tuesday 24 April 2012

STRATEGIC SESSION No 7

STS7: Intelligent Transportation in a Connected Society



Alexandra Trianti Hall



15:30 - 16:45

Over the last years, technological progress has focused primarily on the vehicle and its features. Automobile manufacturers have launched cars that are increasingly equipped with devices that make them safer, smarter and easier to drive. The “connected vehicle” has opened up a new dimension of mobility. This “open” vehicle enables the occupants to communicate in real-time with the outside world. The notion of connected vehicle is not restricted to the automobile but encompasses all means of transport. Connected mobility using cooperative systems will extend the driver’s horizon and enable a whole range of new services, taking a big step towards improving safety,

enhancing energy efficiency and providing accessibility and reliability for moving people and goods on our transport system. An efficient connected mobility can only be achieved by connecting travellers, connecting cars, or cars and roadside traffic management systems, connecting public transport and connecting transport modes. By bringing together transport experts, authorities, researchers, service providers and other stakeholders in this session, we have an opportunity to exchange ideas on how to improve our transport system to contribute to a new era of transportation, creating a sustainable mobility system and contributing to a connected society.

Moderator: Mr. Paul Kompfer, ERTICO

Invited Speakers:

- **Mr. Juhani Jaaskeläinen**, Head of Unit ICT for Transport, DG Information Society & Media, European Commission
- **Dr. Michel Parent**, INRIA
- **Dr.-Ing. Tomas Benz**, Director ITS Research, PTV (Germany)
- **Mr. David Quesada**, Atos Origin, Spain
- **Mr. Servet Balcioglu**, Project Manager, Research & Innovation, Atos Origin, Turkey

STRATEGIC SESSION No 8

STS8: Integrated Transport from the Travellers’ Perspective



Nikos Skalkotas Hall



15:30 - 16:45

Travellers are concerned with moving from an origin to a destination. This may involve a single mode such as cycling or multiple modes. Many car trips will involve more than one mode with park and ride facilities or walking to/from a car park. Modes may be integrated by means of information and/or by the physical integration of services or charging. This session will explore the various ways in

which integration of transport modes may occur, the extent to which they satisfy travellers, and the extent to which various aspects of integration may be used to influence travel behaviour for a more sustainable mobility outcome. Discussion on integration of modes will include travel information, physical integration of services and charging means.

Moderator: Prof. Mike McDonald, University of Southampton

Invited Speakers:

- **Mr. Richard Harris**, Solutions Director at ACS-Xerox. ACS
- **Dipl.-Geograph Stefan Trommer**, Research associate, German Aerospace Center (DLR)
- **Prof. Panos Papaioannou**, Chairman of Thessaloniki Public Transport Authority
- **Prof. Tony May**, Institute for Transport Studies (ITS), University of Leeds
- **Mr. Gabriel Simcic**, Project Manager, Fédération Internationale de l'Automobile (FIA)



Tuesday 24 April 2012

STRATEGIC SESSIONS

STRATEGIC SESSION No 9



MC 3



15:30 - 16:45

STS9: Efficient and interoperable railways

An efficient and inter operable railway system for Europe has been an objective of the European Commission for decades. But the 2011 transport White Paper makes this even more critical. By 2050 the Commission wishes to see the rail network becoming the main mode of long distance freight and medium distance passenger transport, as well as playing an important role in urban areas. Essentially three policies are proposed to achieve this; more effective competition within the rail network; internalisation of externalities to achieve a level playing field between modes and investment in trans European networks.

Effective competition within the rail network requires competition (either for or in the market) for passenger transport as well as freight, and removal of the barriers that hamper such competition. Amongst those barriers, differences in technology and safety regimes remain prominent. Speakers will address what needs to be done to make competition more effective, and how to overcome the specific problem of inter operability as a source of inefficiency and as a barrier to entry, including in particular the role of the ERA. Time will be allowed for discussion and questions from the floor.

Moderator: Prof. Chris Nash, University of Leeds

Invited Speakers:

- **Mr. Marcel Verslype**, Executive Director, European Railway Agency France Executive Director – European Railway Agency
- **Mr. Libor Lochman**, Executive Director – CER
- **Mr. Eric Fontanel**, General Manager – UNIFE





STRATEGIC SESSION No 10



Alexandra Trianti Hall

STS10: Transport research cooperation and R&D trends around the world



11:00 - 12:15

This session aims at presenting some facts and figures concerning transport R&D around the world and discussing the issues that exist for the promotion of a more rigorous and far reaching transport research cooperation around the world.

There are six short presentations planned, by experts and transport research administrators, and a discussion period to give the opportunity to all session participants to air briefly their views

and positions on the subject.

The session will start with a short presentation concerning the transport research trends in all major regions of the world, and it will be followed by five short presentations of specific experiences and current policies, on the activities, the means used and the prospects for the promotion of transport R&D international cooperation in the future.

Moderator: Ms. Caroline Almeras, secretary General of ECTRI (European Conference of Transport Research Institutes)

Invited Panelists:

- **Prof. George A. Giannopoulos**, Director, Hellenic Institute of Transport
- **Mr. Alessandro Damiani**, European Commission, Head of Unit, DG Research & Innovation
- **Mr. Michael Trentacoste**, US Federal Highway Administration, Turner-Fairbank Highway Research Center
- **Mr. Juhani Jaaskeläinen**, Head of Unit ICT for Transport, DG Information Society & Media, European Commission
- **Mr. Kevin Womack**, US/DoT:
- **Mr. Vincent Blervaque**, Director of Development and Deployment, ERTICO

STRATEGIC SESSION No 11



Nikos Skalkotas Hall

STS11: WATERBORNE Industries Competitiveness



11:00 - 12:15

With more than 70% of the planet's surface covered by water, the oceans are at the heart of life on earth. They drive our climate, shape our environment and are becoming increasingly important as a source of raw materials, food and energy. It is an often overlooked fact that the oceans are also the primary transportation route for many of the natural resources and the goods that are consumed globally: close to 90% of goods travel and will continue to travel to their destination by sea. Even more so today, dynamic maritime industries are a key element of healthy societies, environments and economies.

By their very nature, the waterborne industries are already global and in need for an overarching level playing field. In all fields of the maritime industry and waterborne operations, European companies belong to the world leaders. The waterborne industries competitiveness strategy is based on high productivity, the superior performance of its innovative products and services, and an ongoing commitment to developing and implementing new knowledge. With the constantly changing societal, environmental and market conditions, new knowledge will be needed to address the new challenges and provide new opportunities.

Moderator: Mr. Herman de Meester, Deputy Secretary General of the European Community Shipowners' Associations (ECSA)

Invited Speakers:

- **Mr. Dimitris Konstantinos Theodossiou**, Dipl. Eng., DUC, M. Sc., Vice President – Managing Director Danaos Management Consultants s.a.
- **Mr. Willem Laros**, Chairman Technical Advisory Committee, CESA
- **Ms. Mary Vayou**, MSc, Senior Research Scientist, BMT Group Ltd
- **Mr. Maccari Alessandro**, Innovation and Development Manager, Merchant Ship Business Unit, Fincantieri
- **Mr. Paris Sansoglou**, Secretary General Euda – Dredgers



Wednesday 25 April 2012

STRATEGIC SESSIONS

STRATEGIC SESSION No 12

STS12: The Future of Road Transport Electrification



MC 3



11:00 - 12:15

With regard to the societal need for decarbonization in road transport, TRA2012 focuses both on increasing the energy efficiency and on decarbonizing the energy road transport consumes. In the decades until 2050, the challenge will be the need for a wide range of complementary propulsion systems and renewable fuel/energy types to be developed simultaneously. Nevertheless, the expectation is that fossil-based fuels will still dominate the energy pool for road transport in 2030, while the supply of crudes and distillates will increasingly struggle to keep pace with the increase in global demand. Efforts will therefore aim at improving the energy efficiency of new combustion-based

propulsion technologies and diversifying the liquid fuel pool with renewable products in order to achieve optimal performance on a well-to-wheels basis. An important part of decarbonization will be realised through the increased uptake of electrically-powered drivetrains, for which the electricity supplied by the power sector will also need to be generated from renewable energy sources. The challenge will be to efficiently generate and distribute the electricity to consumers and then store the electricity onboard the vehicle in such way that it can compete with hydrocarbon fuels in terms of the required energy density.

Moderator: Mr. Neville Jackson, ERTRAC Vice Chairman

Invited Speakers:

- **Mr. Frederic Sgarbi**, Surface Transport, DG RTD, European Commission, Head of Unit Surface Transport
- **Dr. Heike Barlag**, Siemens Energy

Invited Panelists:

- **Mr. Jerome Perrin**, RENAULT S.A.S, DREAM - Department of Research, Advanced Engineering, and Materials
- **Prof. Konstantinos Boulouchos**, ETH Zurich - Institut für Energietechnik
- **Dr. Ali Mohammadi**, Senior Manager at Toyota Motor Europe

STRATEGIC SESSION No 13

STS13: Road Safety: A decade of Action



Nikos Skalkotas Hall



13:45 - 15:00

After the extremely positive results obtained in the last 10 years the decade 2011–2020 has been identified by the UN as the “Decade of action for road safety”. The EC itself has set a target of halving the number of fatalities from 2010 to 2020 and to achieve this an integrated safety approach is needed.

In the last decade several important actions have been taken at the EU level and worldwide, as the publication of the Directive 2008/96/EC of the European Parliament and of the Council on Road Infrastructure Safety Management. It is now time to implement strategies that have been

built in the past years to move towards the ideal “zero fatalities” target. From principles to practices, from national practices to global practices, from single sector policies and practices (infrastructure/vehicle/human behaviour) to an integrated approach where all the components and modes are considered to achieve a safer transport system. The aim of the strategic session is to bring together transport safety transport experts, authorities, researchers, decision makers and other stakeholders to discuss on the key issues to be implemented in the next decade in the different areas involved in transport safety.

Moderator: Mr. Ludger Rogge, European Commission

Invited Speakers:

- **Prof. Fred Wegman**, TU Delft, Managing Director, SWOV
- **Dr. Ing. Alessandro Coda**, Research Coordinator EUCAR
- **Mr. Harry Cullen**, Chair of the TG on Road Safety, CEDR
- **Prof. Lorenzo Domenichini**, Department of Civil and Environmental Engineering, UNIFI
- **Prof. George D. Yannis**, Associate Professor, Department of Transportation Planning and Engineering, National Technical University of Athens



THS1: Client Focused Road Maintenance (P I)

Moderator: Jenne van der Velde, Rijkswaterstaat

Paper ID & Title:
Author Name

79: Stakeholder expectation and satisfaction in road maintenance

Marieke Hietbrink, University of Twente Department of Construction Management and Engineering;
Andreas Hartmann, University of Twente Department of Construction Management and Engineering;
Geert Dewulf, University of Twente Department of Construction Management and Engineering

Paper ID & Title:
Author Name

124: The Effect of restricted Budgets for Road Maintenance

Johann Litzka, Vienna University, Austria; Alfred Weninger-Vycudil, PMS-Consult GmbH

Paper ID & Title:
Author Name

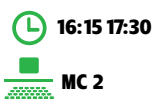
138: Evaluation of highway contractors based on the actual performance of their past projects

Laszlo Gaspar, KTI Nonprofit Ltd

Paper ID & Title:
Author Name

358: Benchmarking of expenditures and practices of maintenance and operation (BEXPRAC)

Michel Egger, CEDR



THS2: Railway safety (PIII)

Moderator: Prof. Ass. Stefano Ricci, University of Rome "La Sapienza"

Paper ID & Title:
Author Name

294: Damage tolerance of rail vehicle energy absorbers

George Kotsikos, School of Mechanical & Systems Engineering; Marzio Grasso, University Federico II

Paper ID & Title:
Author Name

339: PROTECTRAIL – The Railway-Industry Partnership for Integrated Security of Rail Transport

Vito Siciliano, Ansaldo STS S.p.A; Ilodie Rochi, Thales Communication and Security; Matthias Buchhorn, Bombardier Transportation GmbH; Franco Cataldo, UNIFE – The European Rail Industry

Paper ID & Title:
Author Name

706: Mitigating the Effects of Firebomb and Blast Attacks on Metro Systems

Conor O'Neill, NewRail; Mark A. Robinson, NewRail; Steve Ingleton, NewRail

Paper ID & Title:
Author Name

74: An ID-Card based security system for railway applications

Valter Lovati, Casram Rail S.p.A.; Guido Palmieri, Casram Rail S.p.A.; Stefano Gervasini, Trenord S.r.l.; Antonio Mario Colombo, Consultant



Monday 23 April 2012

ORAL



THEMATIC SESSIONS

16:15 17:30



THS3: Urban Public Transport (PII)

Moderator: Yves Amsler, UITP

Paper ID & Title:

520: The role of benchmarking in public transport: The case of Thessaloniki, Greece

Author Name

Georgios Georgiadis, Aristotle University (AUTh)

Paper ID & Title:

601: Networking of public passenger transport modes, a step towards sustainable mobility in Ljubljana urban region

Author Name

Cveto Gregorc, OMEGA consult ltd; David Krivec, OMEGA consult ltd

Paper ID & Title:

468: Road safety issues for bus transport management

Author Name

Salvatore Cafiso, Department of Civil and Environmental Engineering; Alessandro Di Graziano, Department of Civil and Environmental Engineering; Giuseppina Pappalardo, Department of Civil and Environmental Engineering

Paper ID & Title:

343: Passenger-centered design of future buses using agent-based simulation

Author Name

Tomasz Schelenz, CEIT and TECNUN (University of Navarra); Angel Suescun, CEIT and TECNUN (University of Navarra); Li Wikström, Design & Human Factors, Product and Production Development; MariAnne Karlsson, Design & Human Factors, Product and Production Development

Paper ID & Title:

528: MODSafe - Modular Urban Transport Safety and Security Analysis

Author Name

Peter Wigger, MODSafe Coordinator, TóV Rheinland InterTraffic GmbH

16:15 17:30



THS4: Transport Modeling and Simulation I (PII)

Moderator: Prof. Markos Papageorgiou, Technical University of Crete

Paper ID & Title:

514: Functional-spatial sustainability potentials of integrated infrastructure planning

Author Name

Niels Heeres, Univeristy of Groningen, Faculty of Spatial Sciences; Taede Tillema, Univeristy of Groningen, Faculty of Spatial Sciences; Jos Artsa, Rijkswaterstaat, Centre for Transport and Navigation

Paper ID & Title:

380: Understanding Effects of Tube Strikes on Macroscopic and Link Travel Times

Author Name

Ioannis Tsapakis, University College London; Benjamin Heydecker, University College London; Tao Cheng, University College London; Jonathan Turner, Transport for London; Adel Bolbol, University College London

Paper ID & Title:

305: Improving bus transit in cities with appropriate dynamic lane allocating strategies

Author Name

Xie Xiaoyan, Universiti de Lyon, IFSTTAR-ENTPE ; Chiabaut Nicolasa, Universiti de Lyon, IFSTTAR-ENTPE; Leclercq Ludovic, Universiti de Lyon, IFSTTAR-ENTPE

Paper ID & Title:

304: Simulation study of intermittent bus lane and bus signal priority strategy

Author Name

Vladimir Zyryanov, Rostov State Civil Engineering University; Aleksandr Mironchuk, Rostov State Civil Engineering University



16:15 17:30



THS5: Road vehicles (P V)

Moderator: Mr. Thilo Bein, Fraunhofer Institute for Structural Durability and System Reliability LBF

Paper ID & Title:

47: Integrated Architectures for Third Generation Electric Vehicles – First Results of the ELVA Project

Author Name

Micha Lesemann, Forschungsgesellschaft Kraftfahrwesen mbH Aachen; Sven Faßbender, RWTH Aachen University, Institut für Kraftfahrzeuge; Michael Funcke, RWTH Aachen University, Institut für Kraftfahrzeuge; Leif Ickert, RWTH Aachen University, Institut für Kraftfahrzeuge; Lutz Eckstein, RWTH Aachen University, Institut für Kraftfahrzeuge; Else-Marie Malmek SAFER, Chalmers University of Technology; Jac Wismans, SAFER, Chalmers University of Technology

Paper ID & Title:

737: WIDE-MOB: an efficient and safe multiuse urban electrical vehicle

Author Name

Franco Anzioso, CRF; Carloandrea Malvicino, CRF; Andrea Pipino, CRF; Jiabin Wang, The University of Sheffield; Pietro Guerrieri, Polimodel Srl

Paper ID & Title:

741: Goal-based flow optimisation for automotive design

Author Name

J.-D. Mueller, Queen Mary ; D. Jones, Queen Mary; W. Jahn, Univ. of London, Queen Mary; C. Othmer, Volkswagen AG; M. Megahed, ESI-Group; N. Hollette, ESI-Group; G. Pierrot, ESI-Group; K.-U. Bletzinger, Technical University Munich; E. Stavropolou, Technical University Munich

Paper ID & Title:

46: Comparison of the performance of heavy vehicles Results of the OECD study: 'Moving Freight

Author Name

Dr.-Ing. Klaus-Peter Glaeser, Bundesanstalt für Straßenwesen (BASt); Mr. Adam Ritzinger, ARRB Group Ltd

16:15 17:30



THS6: Emissions Control and Alternative Fuels (P IV)

Moderator: Prof. Dr. Konstantinos Boulouchos, LAV - Institut für Energietechnik, ETH Zurich

Paper ID & Title:

750: Control strategies development for SCR equipped diesel powertrains to face PC Euro 6 challenges

Author Name

Evangelos Georgiadis, Powertrain R&D, Gasoline and diesel engine control; Pierre-Olivier Calendina, Powertrain R&D, Gasoline and diesel engine control

Paper ID & Title:

347: Modeling NH3 storage over Fe- and Cu-zeolite based, Urea-SCR catalysts for mobile diesel engines

Author Name

Stavros A. Skarlis, IFP Energies Nouvelles; David Berthout, IFP Energies Nouvelles ; Andri Nicolle, IFP Energies Nouvelles; Christophe Dujardin, Unité de Catalyse et de Chimie du Solide, Université de Lille 1; Pascal Granger, Unité de Catalyse et de Chimie du Solide, Université de Lille 1

Paper ID & Title:

655: Comparative evaluation of various strategies for improving the characteristics of performance of a pilot ignited natural gas/diesel engine

Author Name

Roussos G. Papagiannakis, Hellenic Air Force Academy; Dimitrios T. Hountalas, National Technical University of Athens

Paper ID & Title:

730: Decentralised Use of Pure Vegetable Oils in Agricultural Machines Strategic Technological Approach in the EU-Funded Project 2nd VegOil

Author Name

Stefanie Dieringer, John Deere European Technology Innovation Center; Peter Pickel, John Deere European Technology Innovation Center



Monday 23 April 2012

ORAL



THEMATIC SESSIONS

17:30 18:45

N. Skalkotas
Hall

THS7: Financing of Transport Infrastructure (P I)

Moderator: Dr. Andrzej Urbanik, IBDIM

Paper ID & Title:

34: A standardised ranking model for evaluation of transport projects as basis for a future funding scheme

Author Name

Roman Klementsitz, Institute for Transport Studies, University of Natural Resources and Applied Life Sciences (BOKU); Gerd Sammer, University of Natural Resources and Applied Life Sciences (BOKU), Institute for Transport Studies

Paper ID & Title:

118: Value capture for transportation finance

Author Name

Zhirong Zhao, University of Minnesota; Michael Iacono, University of Minnesota; Adeel Lari, University of Minnesota; David Levinson, University of Minnesota

Paper ID & Title:

446: Greek Motorway Concession Contracts in Progress under Financial Stress: a Rebalancing Proposal

Author Name

Sergios Lambropoulos, Kleopatra Petroutsatou, Stefania Trezou, National Technical University of Athens

Paper ID & Title:

493: Evaluation of Value Capture mechanisms as a funding source for urban transport: the case of London's Crossrail

Author Name

Anastasia Roukouni, UCL QASER Lab, Research Fellow; Francesca Medda, UCL QASER Lab, Reader in Applied Economics

Paper ID & Title:

588: Public-private collaboration: How private involvement can contribute to network performance

Author Name

Wim Leendertse, Faculty of Civil Engineering and Geosciences, Delft University of Technology; Sander Lenferink, Rijkswaterstaat, Ministry of Infrastructure and the Environment; Jos Arts, University of Groningen, Faculty of Spatial Sciences

17:30 18:45

MC 2

THS8: Maritime safety (PIII)

Moderator: Dr. Nikitas Nikitakos University of the Aegean

Paper ID & Title:

120: GOALDS – Goal Based Ship Stability & Safety Standards

Author Name

Apostolos Papanikolaou, National Technical University of Athens; Byung Suk Lee, Safety at Sea; Christian Mains, Germanischer Lloyd; Odd Olufsen, Det Norske Veritas; Dracos Vassalos, University of Strathclyde – Ship Stability Research Center; George Zaraphonitis, National Technical University of Athens, Ship Design Laboratory

Paper ID & Title:

227: Developing incident and near miss reporting in the maritime industry – a case study on the Baltic Sea

Author Name

Jenni Storgård, University of Turku Centre for Maritime Studies; Ilknur Erdogan, University of Turku Centre for Maritime Studies; Jouni Lappalainen, University of Turku Centre for Maritime Studies; Ulla Tapaninen, University of Turku Centre for Maritime Studies

Paper ID & Title:

391: Impact: more than maritime risk assessment

Author Name

Eric Rigaud, MINES ParisTech, CRC – Centre de recherche sur les risques et les crises; Margareta Lützhöft, Chalmers University of Technology, Dep. of Shipping and Marine Technology; Albert Kircher, Chalmers University of Technology, Dep. of Shipping and Marine Technology; Jens-Uwe Schröder-Hinrichs, World Maritime University; Michael Baldauf, World Maritime University; Johan Jenvald, VSL Systems AB; Thomas Porathe, Chalmers University of Technology, Dep. of Shipping and Marine Technology

Paper ID & Title:

651: What is your intention? Communicating routes in electronic nautical charts

Author Name

Thomas Porathe, Chalmers University of Technology, Dep. of Shipping and Marine Technology; Margareta Lützhöft, Chalmers University of Technology, Dep. of Shipping and Marine Technology; Gesa Praetorius, Chalmers University of Technology, Dep. of Shipping and Marine Technology

Paper ID & Title:

516: Multicriteria Analysis evaluating Venice port development

Author Name

Alessandra Libardo, IUAV University of Venice; Alberta Parolin, Venice Port Authority



🕒 17:30 18:45

MC 3

THS9: Walking and Cycling (P II)

Moderator: Prof. Ass. Socrates Basbas, Aristotle University of Thessaloniki

Paper ID & Title:

197: Planning of the Athens metropolitan cycle network using participative multicriteria GIS analysis

Author Name

Dimitris Milakis, Sustainable Mobility Unit, National Technical University of Athens; Konstantinos Athanasopoulos, Sustainable Mobility Unit, National Technical University of Athens; Evangelos Vafeiadis, National Technical University of Athens, Sustainable Mobility Unit; Konstantinos Vasileiadis, National Technical University of Athens, Sustainable Mobility Unit; Thanos Vlastos, Sustainable Mobility Unit, National Technical University of Athens

Paper ID & Title:

624: Development and implementation of an audit tool for the pedestrian built environment

Author Name

Galanis Athanasios, University of Thessaly; Eliou Nikolaos, University of Thessaly

Paper ID & Title:

509: Road Safety Attitudes and Perceptions of Pedestrians in Europe

Author Name

Eleonora Papadimitriou, National Technical University of Athens; Athanasios Theofilatos, National Technical University of Athens; George Yannis, National Technical University of Athens; Gian Marco Sardi, SIPSiVi; Richard P.J. Freeman, Institute of Education, University of London

Paper ID & Title:

128: Reshaping city traffic towards sustainability Why transport policy should favor the bicycle instead of car traffic

Author Name

Michael Meschik, Institute for Transport Studies; Department of Landscape

🕒 17:30 18:45

MC 3.2

THS10: Transport Modeling and Simulation II (PII)

Moderator: Prof. Konstantinos Antoniou, National Technical University of Athens

Paper ID & Title:

321: Augmenting the Floating Car Data Approach by Dynamic Indirect Traffic Detection

Author Name

Sten Ruppe, Gernam Aerospace Senter (DLR) Institute of Transportation Systems; Marek Junghans, Gernam Aerospace Senter (DLR), Institute of Transportation Systems; Mathias Haberjahn, Gernam Aerospace Senter (DLR) Institute of Transportation Systems; Christian Troppenz, Gernam Aerospace Senter (DLR) Institute of Transportation Systems

Paper ID & Title:

411: Combining Simulation and Optimization to Improve LTL Traffic

Author Name

Prof. Dr.-Ing. Uwe Clausen, TU Dortmund University; Ina Goedicke, TU Dortmund University; Larissa Mest, TU Dortmund University; Sascha Wohlgenuth, TU Dortmund University

Paper ID & Title:

410: The eCoMove Simulation Test Bed

Author Name

Benz Thomas, PTV AG; El Ghouti Norddin, DAF Trucks N.V.; Krietsch Florian, PTV AG; Mathias Paul, mat.traffic GmbH; Peyeron Florian, Volvo technolog France; Themann Philipp, ika, RWTH Aachen

Paper ID & Title:

310: Simulation of V2X Applications with the iTETRIS system

Author Name

Daniel Krajzewicz, Insitute of Transportation Systems, German Aerospace Center (DLR); Laura Bieker, German Aerospace Center (DLR), Insitute of Transportation Systems; Jérôme Härrri, Department of Mobile Communications, EURECOM; Robbin Blokpoel, Peek Traffic



Monday 23 April 2012

ORAL



THEMATIC SESSIONS



17:30 18:45

MC 3.3

THS11: Railway design and construction (P V)

Moderator: Prof. Christos Pyrgidis, Aristotle University of Thessaloniki

Paper ID & Title:
Author Name

715: Modern Railway Infrastructure: Resilient Fastenings improve Track's Life-Cycle
Giannakos Konstantinos, Civil Engineer PhD, FASCE, M. TRB-AR050 & 060 Comm., Visiting Professor of Railways, University of Thessaly

Paper ID & Title:
Author Name

234: Automated and Cost Effective Maintenance for Railway (ACEM-Rail)
Noemv Jimenez-Redondo, CEMOSA; Nicola Bosso, Politecnico di Torino, Dipartimento di Meccanica; Luigi Zeni, Second University of Naples, Department of Information Engineering; Aldo Minardo, Second University of Naples, Department of Information Engineering; Frank Schubert, Fraunhofer Institute for Nondestructive Testing; Franziska Heinicke, Fraunhofer-Institute for Transportation and Infrastructure Systems; Axel Simroth, Fraunhofer-Institute for Transportation and Infrastructure Systems

Paper ID & Title:
Author Name

198: Optimal design of the track layouts for the introduction of limited-stop services on commuter lines
M^a del Pilar Martvn Cañizares, Spanish Railways Foundation; Alberto García Alvarez, Spanish Railways Foundation

Paper ID & Title:
Author Name

183: Changes of the infrastructure and operation parameters of a railway line and their impact to the track capacity and the volume of transported goods
Martin Kendra, University of Žilina; Matej Babin, University of Žilina; Dalibor Barta, University of Žilina

Paper ID & Title:
Author Name

484: Towards a new perspective in railway vehicles and infrastructure
Donato Zangani, D'Appolonia S.p.A.; Clemente Fuggini, D'Appolonia S.p.A.



17:30 18:45

MC 3.4

THS12: New transport and mobility concepts (PVI)

Moderator: Paris Sansoglou, Sec. Gen. of EuDA

Paper ID & Title:
Author Name

285: Market development potential of personal mobility services
Cristina d'Alessandro, Fondazione FORMIT; Pier Carlo Trucco, FORMIT Servizi

Paper ID & Title:
Author Name

392: Mobile integration platform concept: the Naples pilot test site
Anita Fiorentino, Fiat Group Automobiles – EMEA PD – Vehicle Integration & Durability; Corrado De Gioia, Fiat Group Automobiles – EMEA PD – Vehicle Integration & Durability; Massimo Gaido, Fiat Research Centre; Giuseppe Conti, Fondazione Graphitech; Daniele Magliocchetti, Fondazione Graphitech; Dr. Raffaele De Amicis, Fondazione Graphitech; Wolfgang Kipp, PTV Planung Transport Verkehr AG

Paper ID & Title:
Author Name

656: Intermodal Passengers Terminals: Design standards for better level of service
Magda Pitsiava-Latinopoulou, Aristotle University of Thessaloniki; Panagiotis Iordanopoulos, Hellenic Institute of Transport – Center for Research and Technology Hellas

Paper ID & Title:
Author Name

467: Logistics Based Design as an approach to ship and business development
Evangelos. Boulougouris, Technological Education Institute of Athens; Apostolos. Papanikolaou, National Technical University of Athens; Ivan Østvik, NorWind AS; Per Olaf Brett, Ulstein International AS; Dimitris Konovessis, University of Strathclyde

Paper ID & Title:
Author Name

229: A strategy on how to utilize smartphones for automatically reconstructing trips in travel surveys
Philippe Nitsche, Austrian Institute of Technology; Peter Widhalm, Austrian Institute of Technology; Simon Breuss, Austrian Institute of Technology; Peter Maurer, Austrian Institute of Technology



THS13: Competition in Transport Business (P I)

Moderator: Prof. Chris Nash, Institute for Transport Studies, University of Leeds

- Paper ID & Title: **248: The problems of the presence of passenger and freight trains on the same track**
Author Name: Christos Pyrgidis, Prof. Aristotle University of Thessaloniki; Evangelos Christogiannis, Hellenic Railways Organisation
- Paper ID & Title: **538: Strengthening the competitiveness of local and regional production clusters through efficient interfaces to ports and intermodal solution exploitation in the Mediterranean basin**
Author Name: Dr. Georgia Ayfandopoulou, Civil Engineer – Research Director; Mrs. Eliza Gagatsi, Civil Engineer – MSc. Transportation Planner – PhD Candidate; Mrs. Glikeria Myrovali Civil Engineer – MSc. Transportation Planner – PhD Candidate
- Paper ID & Title: **564: The Metropolitan Transport Authority in Europe. Towards a methodology for defining objectives, responsibilities and tasks**
Author Name: Aristotelis Naniopoulos, Aristotle University of Thessaloniki, Transport System Research Group; Evangelos Genitsaris, Aristotle University of Thessaloniki, Transport System Research Group; Ifigeneia Balampekou, Aristotle University of Thessaloniki, Transport System Research Group
- Paper ID & Title: **748: Improving Island Competitiveness through Alternative Ferry Connections**
Author Name: Amalia Polydoropoulou, University of the Aegean; Ioannis Lagoudis, University of the Aegean; Athena Tsimpa, University of the Aegean
- Paper ID & Title: **472: ERRAC ROADMAP WPO3: Urban, Suburban and Regional Rail and Urban Mobility**
Author Name: Yves Amsler, UITP; Caroline Hoogendoorn, UITP



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🕒 13:45 15:00



THS14: Safety on Driver oriented issues (P III)

Moderator: Tapani Mäkinen, VTT Technical Research Centre of Finland

Paper ID & Title:
Author Name

123: Road tunnel safety: HGV driver training in France

Marc Tesson, CETU; Bertrand Perrin, CETU ; Vironique Aurand, CETU

Paper ID & Title:
Author Name

340: Thoracic injury assessment for improved vehicle safety

Paul Lemmen, Humanetics Europe GmbH; David Hynd, Transport Research Laboratory, Crowthorne House; Jolyon Carroll, Transport Research Laboratory, Crowthorne House; Johan Davidsson, Chalmers University; Bernard Been, Humanetics Europe GmbH; Eric Song, Groupement d'Intérêt Economique de Recherches et Etudes PSA-RENAULT; Boris Steeger, Continental Safety Engineering International GmbH

Paper ID & Title:

556: Exploring the effects of attitudinal and perceptual characteristics on drinking and driving in compliant behaviour

Author Name: Ioannis Politis, Dr Transportation Planner; Socrates Basbas, Faculty of Rural and Surveying Engineering, Department of Transportation and Hydraulic Engineering; Panagiotis Papaioannou, Prof. Aristotle University of Thessaloniki

Paper ID & Title:

400: ADSEAT - Adaptive Seat to Reduce Neck Injuries for Female and Male Occupants

Author Name: Astrid Linder, Statens väg- och transportforskningsinstitut (VTI); Sylvia Schick, Ludwig-Maximilians-Universität München (LMU); Wolfram Hell, Ludwig-Maximilians-Universität München (LMU); Mats Svensson, Chalmers University of Technology (Chalmers); Anna Carlsson Chalmers, University of Technology (Chalmers); Paul Lemmen, Humanetics Europe GmbH (HUMAN); Kai-Uwe Schmitt, Stiftung Arbeitsgruppe für Unfallmechanik (AGU); Ernst Tomasch, Technische Universität Graz (GUT)

Paper ID & Title:

424: Development of a system to test somnolence detectors with drowsy drivers

Author Name: Jaime Lopez de la O, IDIADA Automotive Technology SA ; Mario Nombela Gonzalez, IDIADA Automotive Technology SA ; Josi Manuel Barrios Vicente, IDIADA Automotive Technology SA ; Noelia Rodriguez Ibáñez, FICOSA INTERNATIONAL; Alan Montes, FICOSA INTERNATIONAL



🕒 13:45 15:00



THS15: Freight Transport I (P II)

Moderator: Prof. George Giannopoulos, Centre for Research and Technology Hellas

- Paper ID & Title: **512: A Comparative Assessment of Freight Transport and Logistics Policies in Europe**
Author Name: Konstantinos G. Zografos, Athens University of Economics and Business, Transportation Systems and Logistics Laboratory; Norbert Sedlacek, HERRY Consult GmbH; Jeroen Bozuwa, ECORYS
- Paper ID & Title: **286: Pan-European Rail freight transport; Evidence from a pilot demonstration result**
Author Name: Thomas H. Zunder, NewRail – Centre for Railway Research; Dewan Md. Zahurul Islam, NewRail – Centre for Railway Research; Phil N. Mortimer, NewRail – Centre for Railway Research
- Paper ID & Title: **726: Improving the safety and road wear performance of heavy vehicles in South Africa using a Performance-Based Standards approach**
Author Name: Paul A Nordengen, CSIR Built Environment; Michael Roux, CSIR Built Environment
- Paper ID & Title: **357: Green corridors in European surface freight logistics and the SuperGreen project**
Author Name: Harilaos N. Psaraftis, “Laboratory for Maritime Transport National Technical University of Athens”; George Panagakos, “Laboratory for Maritime Transport National Technical University of Athens”
- Paper ID & Title: **48: Heavy traffic data collection and detection of overloaded HGV**
Author Name: Daniel Stanczyk, CETE de l’Est; Eric Klein, CETE de l’Est





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THEMATIC SESSIONS

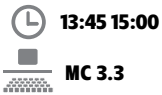
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MC 3.2

THS16: Vulnerable users (P III)

Moderator: Prof. Jac Wismans, SAFER

- Paper ID & Title: **223: The ITF/OECD working group on powered two-wheelers safety: developing guidelines for an integrated safety strategy**
Author Name: Pierre Van Elslande, Ifsttar
- Paper ID & Title: **323: Characteristics and causes of power two wheeler accidents in Europe**
Author Name: George Yannis, National Technical University of Athens; Constantinos Antoniou, National Technical University of Athens; Petros Evgenikos, National Technical University of Athens; Panagiotis Papantoniou, National Technical University of Athens; Alan Kirk, Research Fellow, Design School, Loughborough University, Leicestershire
- Paper ID & Title: **534: CASPER – Improvement of child safety in cars**
Author Name: Lesire Lab Psa, Peugeot-Citroen; Johannsen, Technische Universität of Berlin; Willinger, Universität de Strasbourg; Longton, Applus Idiada, L'albornar, Santa Oliva
- Paper ID & Title: **638: Transport Planning Guidelines for Vulnerable Road User Safety in Emerging Economies**
Author Name: Claire Quigley, Loughborough University, Loughborough Design School; Ruth Sims, Loughborough University, Loughborough Design School; Julian Hill, Loughborough University, Loughborough Design School; Antonino Tripodi, "Sapienza" Università di Roma, Centro di Ricerca per il Trasporto e la Logistica; Luca Persia, "Sapienza" Università di Roma, Centro di Ricerca per il Trasporto e la Logistica; Hugo Pietrantonio, Polytechnic School – University of Sao Paulo, Department of Transportation Engineering; Mahendra Kharat, Suncon Engineers Pvt. Ltd
- Paper ID & Title: **159: Evaluation of rider's support systems in Power Two Wheelers (PTWs)**
Author Name: Katerina Toulou, Centre for Research and Technology Hellas/Hellenic Institute of Transport (CERTH/HIT); Dimitris Margaritis, (CERTH/HIT); Pavlos Spanidis, (CERTH/HIT); Stella Nikolaou, (CERTH/HIT); Evangelos Bekiaris, (CERTH/HIT)



THS17: Pavement modeling (P V)

Moderator: Prof. Eng. Francesca la Torre, University of Florence

Paper ID & Title:
Author Name

25: Modeling the evolution of pavement surface characteristics

Tristan Lorino, Nottingham Transportation Engineering Centre (NTEC); Philippe Lepert, LUNAM University, Ifsttar; Denis Lièvre, LUNAM University, Ifsttar; Sidoine de la Roque, Cofiroute; Gabriel Lacombe, Cofiroute; Christophe Hugh, Cofiroute

Paper ID & Title:
Author Name

89: Modelling of rutting development in pavement structures

Sigurdur Erlingsson, The Swedish Road and Transport Research Institute

Paper ID & Title:
Author Name

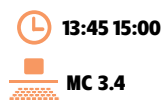
182: Stress Intensity Factors at the tip of a Surface Initiated Crack caused by different Contact Pressure Distributions

Dermot B. Casey, Nottingham Transportation Engineering Centre (NTEC); Andrew C. Collop, Faculty of Technology, De Montfort University, Leicester; James R. Grenfell, University of Nottingham, Nottingham Transportation Engineering Centre (NTEC); Gordon D. Airey, Nottingham Transportation Engineering Centre (NTEC)

Paper ID & Title:
Author Name

264: Analysis of the long-term structural performance of flexible pavements using full-scale accelerated pavement tests

Jan Ritter, Federal Highway Research Institute (BASt); Rolf Rabe, Federal Highway Research Institute (BASt); Andreas Wolf, Federal Highway Research Institute (BASt)



THS18: Moving More Efficiently (P IV)

Moderator: Prof. Zisis Samaras, Aristotle University of Thessaloniki

Paper ID & Title:
Author Name

280: EU-CargoXpress: wind propulsion concept

Patricia Izaguirre-Alza, Universidad Politécnica de Madrid; Luis Pérez-Rojas, Universidad Politécnica de Madrid; Alberto Torres-Benayas, Universidad Politécnica de Madrid; Francisco Pérez-Arribas, Universidad Politécnica de Madrid

Paper ID & Title:
Author Name

743: Energy Efficient Vehicles for Road Transport

R Simpkin, MIRA Ltd; C D'Ambrosio, CRF ; J Simonsson, Volvo Technology; Dr. M Abele, Robert Bosch GmbH; Dr. A Ferri, Applied Research and Tech. Development; L Rollenitz, Engineering Center Steyr; R Estrada Vazquez, FH Joanneum; Prof. I Boldea, UPT; Dr. S Scridon, Beespeed

Paper ID & Title:
Author Name

283: Reduced Energy Consumption by Massive Thermoelectric Waste Heat Recovery in Light Duty Trucks

Guilhem Vidiella, ROM Innovation & Stratigie; Daniela Magnetto, Centro Ricerche FIAT S.C.p.A.

Paper ID & Title:
Author Name

477: Two strokes Diesel engine Promising solution to reduce CO2 emissions

Pascal Tribotte, Renault SAS; Frederic Ravet, Renault SAS; Vincent Dugue, Renault SAS; Philippe Obernesser, Renault SAS; Nicolas Quechon, Renault SAS; Jesus Benajes, Universidad Politecnica de Valencia, CMT-Motores Termicos; Ricardo Novella, Universidad Politecnica de Valencia, CMT-Motores Termicos; Daniela De Lima, Universidad Politecnica de Valencia, CMT-Motores Termicos



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16:45 18:00

N. Skalkotas
Hall

THS19: Efficient Transport Policies (P I)

Moderator: Assist.Prof. Wolfgang H. Steinicke, Vorstand & Secr.General, EURN

Paper ID & Title:

254: Stimulating transportation policy making through an effective traffic information communication mechanism: the case of Athens

Author Name

Dr. Yannis Tyrinopoulos, Technological Educational Institution of Athens (TEI); Anna Kortsari, Centre for Research and Technology Hellas/Hellenic Institute of Transport (CERTH/HIT); Maria Chatziathanasiou, (CERTH/HIT)

Paper ID & Title:

483: Bending the rules in the commercial goods road transport sector

Author Name

Ove Njå, University of Stavanger; Geir Sverre Braut, Stord/Haugesund University College

Paper ID & Title:

498: Technology Gaps and Research Priorities to Support the EU Maritime Transport Policy

Author Name

Dr. Boile Maria, Centre for Research and Technology Hellas/Hellenic Institute of Transport (CERTH/HIT); Eur. Ing. Dr. Morrall Tony, Research Consultant; Dr-Ing. Roland Frank, Center of Maritime Technologies e.V.; Sdoukopoulos Eleftherios, Centre for Research and Technology Hellas/Hellenic Institute of Transport (CERTH/HIT)

Paper ID & Title:

593: Audit tool for Efficient Logistics Policy

Author Name

Stane Božicnik, Ass. Prof.; Tomislav Letnik, Asist.; Mitja Štiglic, Asist.

Paper ID & Title:

702: Assessment of rail research capabilities of new and potential EU member states

Author Name

Cristian Ulianov, Newcastle University, NewRail Newcastle Centre for Railway Research; Siân Evans, Newcastle University, NewRail Newcastle Centre for Railway Research; Mark Robinson Newcastle University, NewRail Newcastle Centre for Railway Research



16:45 18:00

MC 2

THS20: Safety Assessment (P III)

Moderator: Aria Etemad, Ford Research & Advanced, Engineering Europe

Paper ID & Title:

129: Recognizing safety-critical events from naturalistic driving data

Author Name

Marco Dozza, Chalmers University of Technology; Nieves Papeda Gonzalez, Escuela Politecnica de Ingenierva de Gijon, University of Oviedo

Paper ID & Title:

287: Results and lessons learned of a subjective field operational test on the lane departure warning function

Author Name

Gianfranco Burzio, CRF Centro Ricerche Fiat; Leandro Guidotti, Politecnico di Torino; Guido Perboli, Politecnico di Torino; Roberto Tadei, Politecnico di Torino; Francesco Tesauri, Università di Modena e Reggio Emilia - HMI Research Group

Paper ID & Title:

336: Assessment of integrated vehicle safety systems for improved vehicle safety

Author Name

Paul Lemmen, Humanetics Europe GmbH ; Helen Fagerlind, Chalmers University; Thomas Unsel, Daimler AG; Carmen Rodarius, Nederlandse Organisatie voor toegepast-natuurwetenschappelijk onderzoek TNO; Eduard Infantes, IDIADA Automotive Technology SA; Cor van der Zweep, Uniresearch

Paper ID & Title:

414: Detailed FOT for the analysis of effects between nomadic devices and ADAS

Author Name

Devid Will, RWTH Aachen University, Institut für Kraftfahrzeuge; Adrian Zlocki, RWTH Aachen University, Institut für Kraftfahrzeuge; Lutz Eckstein, RWTH Aachen University, Institut für Kraftfahrzeuge



🕒 16:45 18:00

📊 MC 3

THS21: Freight Transport II (P II)

Moderator: Dr. Georgia Aifadopoulou, Head of Unit "Intelligent Infrastructure & Demand Management", CERTH / HIT (Centre for Research and Technology Hellas / Hellenic Institute of Transport)

Paper ID & Title:
Author Name

402: Designing the WATERBORNE R&D RoapMap Long Term Vision
Willem Laros, WATERBORNE ETP; Lanfranco Benedetti, WATERBORNE ETP

Paper ID & Title:

317: Innovative logistics model and containers solution for efficient last mile delivery

Author Name

Mauro Dell'Amico, UNIMORE – University of Modena and Reggio Emilia; Selini Hadjidimitriou, ICOOR – Interuniversity Consortium for Optimization and Operation Research

Paper ID & Title:

500: Manually guidable Freight Transport System for Urban Shipment and Delivery

Author Name

Matthias Bröning, Fraunhofer Institute for Production Systems and Construction Technology IPK; Werner Schönewolf, Fraunhofer Institute for Production Systems and Construction Technology IPK

Paper ID & Title:

142: Development of a Fully Electric Light Duty Vehicle – The DELIVER Project

Author Name

Micha Lesemann, Forschungsgesellschaft Kraftfahrwesen mbH Aachen; Thomas Welfers, RWTH Aachen University, Institut für Kraftfahrzeuge; Lutz Eckstein RWTH Aachen University, Institut für Kraftfahrzeuge

Paper ID & Title:

542: "Train Monitor"- a new IT system for monitoring freight trains on national and international routes

Author Name

Niklas Galonske, HaCon Ingenieugesellschaft mbH; Christoph Bóchner, Kombiverkehr GmbH & Co KG; Uwe Sondermann, Kombiverkehr GmbH & Co KG

🕒 16:45 18:00

📊 MC 3.2

THS22: Cooperative and Automated Systems (PII)

Moderator: Dr. Win Desmet, Katholieke Universiteit Leuven

Paper ID & Title:

607: Sample Size Calculation for Studying Transportation Modes from GPS Data

Author Name

Adel Bolbol, University College London; Tao Cheng, University College London; Ioannis Tsapakis, University College London; Andy Chow, University College London

Paper ID & Title:

491: Using I2V communication to reduce traffic emissions at urban signalized intersections

Author Name

Ronald T. van Katwijk, TNO

Paper ID & Title:

589: Driving Support for City Vehicles

Author Name

Gianfranco Burzio, Centro Ricerche FIAT Strada; Maurizio Miglietta, Centro Ricerche FIAT Strada

Paper ID & Title:

636: Distributed and centralized approaches for cooperative road traffic dynamics

Author Name

Julien Monteil, Laboratoire d'ingénierie circulation transports (LICIT); Romain Billot, Queensland University of Technology, Smart Transport Research Centre; David Rey, Laboratoire d'ingénierie circulation transports (LICIT), IFSTTAR; N.-E. El Faouzi, Laboratoire d'ingénierie circulation transports (LICIT), IFSTTAR



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MC 3.3

TH23: Rail and maritime vessels (P V)

Moderator: Prof. Manuel Pereira, Technical University of Lisbon

- Paper ID & Title: **235: HERCULES A-B-C, A 10-Year Major R&D Effort Towards the Next Generation Large Marine Diesel Engines**
Author Name: Nikolaos P. Kyrtatos, National Technical University of Athens
- Paper ID & Title: **39: Concurrent treatment of safety aspects in ship design and construction process**
Author Name: Alessandro Maccari, Fincantieri C.N.I. S.p.A
- Paper ID & Title: **165: Transport of DE-LIGHT: the design and prototyping of a lightweight crashworthy rail vehicle driver's cab**
Author Name: Mark Robinson, Newcastle University, NewRail; Joe Carruthers, NetComposites Ltd; Conor O'Neill, Newcastle University, NewRail; Stephen Ingleton, Newcastle University, NewRail; Marzio Grasso, Department of Mechanics and Energetics, University of Naples Federico II
- Paper ID & Title: **245: An optimization process of the wheel profile of tramway vehicles**
Author Name: Christos Pyrgidis, Aristotle University of Thessaloniki; Alexandros Panagiotopoulos, Aristotle University of Thessaloniki

16:45 18:00

MC 3.4

THS24: Travel behavior and cultural aspects (P VI)

Moderator: Dr.-Ing. Christian Piehler, DLR Transport Research

- Paper ID & Title: **316: Mobility towards homogenization? A synthetic overview through multivariate analysis**
Author Name: Richard Grimal, French Technical Department of Studies on Roads
- Paper ID & Title: **219: Will privacy concerns associated with future transport systems restrict the public's freedom of movement?**
Author Name: Scott Cruickshanks, University of Southampton; Dr Ben Waterson, University of Southampton
- Paper ID & Title: **749: Teenagers' Travel Patterns for School and After-School Activities**
Author Name: Maria Kamargianni, Department of Shipping Trade and Transport; Amalia Polydoropoulou, Department of Shipping Trade and Transport; Konstadinos G. Goulias, Department of Geography
- Paper ID & Title: **525: Paradigm shift for future mobility: a cross country analysis of behavioural policies**
Author Name: Sophia Economides, University of Cambridge Judge Business School; Han Chai Ling, University of Cambridge Judge Business School; Orowitsch S., University of Cambridge Judge Business School; Scoullou Iosif Marios, University of Cambridge Judge Business School; Nuttall William, University of Cambridge Judge Business School



13:45 15:00

MC 2

THS25: Infrastructure Management (PII)

Moderator: Prof. Eugene O'Brien, University College Dublin

- Paper ID & Title: **419: Procedures for Cross Asset Management Optimisation**
Author Name: Stefan Deix, Austrian Institute of Technology; Karoline Alten, Austrian Institute of Technology; Alfred Weninger-Vycudil, PMS-Consult
- Paper ID & Title: **471: The deployment of river freight terminals: the example of the concrete industry in Ile de France.**
Author Name: Olivier Gavaud, IFSTTAR-Cete de l'Ouest; Marie Douet IFSTTAR-Cete de l'Ouest
- Paper ID & Title: **351: TEAM - a Marie Curie ITN on infrastructure management**
Author Name: Ciaran McNally, University College Dublin
- Paper ID & Title: **756: Non-linear analysis of concrete pavement construction by the use of artificial neural networks**
Author Name: Antonios Panas, National Technical University of Athens; John-Paris Pantouvakis, National Technical University of Athens, Centre for Construction Innovation; Sergios Lambropoulos, National Technical University of Athens, Centre for Construction Innovation

13:45 15:00

MC 3

THS26: Transport Policy for Sustainability (P I)

Moderator: Dr. Hans Ingvarsson, Former PC Chairman, ERTRAC, CEDR

- Paper ID & Title: **296: A paradigm shift in European transport and urban planning-fact or fable?**
Author Name: Anu Tuominen, VTT Technical Research Centre of Finland; Heikki Kanner, VTT Technical Research Centre of Finland; Eeva Linkama, Ministry of Transport and Communications Finland
- Paper ID & Title: **387: The effect of climate change on inland waterway transport**
Author Name: Christophe Hendrick, Transport & Mobility Leuven; Tim Breemersch, Transport & Mobility Leuven
- Paper ID & Title: **409: Contribution of an emission trading scheme to reduce road traffic induced CO2 emissions in Austria**
Author Name: Christoph Link, Institute for Transport Studies, University of Natural Resources and Life Sciences; Juliane Stark, Institute for Transport Studies, University of Natural Resources and Life Sciences; Axel Sonntag, Vienna University of Economics and Business, Institute for Labour Economics; Reinhard Hössinger, Institute for Transport Studies, University of Natural Resources and Life Sciences
- Paper ID & Title: **609: Towards a sustainable development approach in transport assessment**
Author Name: David Meunier, Université Paris-Est
- Paper ID & Title: **644: New governance approaches for sustainable project delivery**
Author Name: Jos Arts, Rijkswaterstaat, Ministry of Infrastructure and Environment; Charlotta Faith-Ell WSP Civils



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13:45 15:00

MC 3.2

THS27: Mitigating Noise Pollution (P IV)

Moderator: Dr. Stijn Donders, LMS International

Paper ID & Title:

275: Anomalous data of END noise mapping for major roads on the website of the European Environment Agency

Author Name

Wiebe Alberts, Rijkswaterstaat, Centre for Transport and Navigation

Paper ID & Title:

216: Integrated Solutions for Noise & Vibration Control in Vehicles

Author Name

Thilo Bein, Fraunhofer LBF; Stephen Elliott, ISVR; Leonardo Ferralli, Autoneum Management AG; Mauro Casella, Centro Ricerche Fiat S.C.p.A.; Jens Meschke, Volkswagen AG; Ernst-Ulrich Saemann, Continental Reifen Deutschland GmbH; Finn-Kryger Nielsen, Br el & Kjzr Sound & Vibration Measurement A/S; Wolfgang Kropp, Chalmers University of Technology

Paper ID & Title:

209: Noise emitted from ships: impact inside and outside the vessels

Author Name

A. Badino, University of Genoa – DIME; D. Borelli, University of Genoa – DIME; T. Gaggero, University of Genoa – DYNATECH; E. Rizzuto, University of Genoa – DICAT; C. Schenone, University of Genoa – DIME

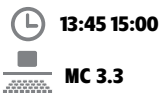
Paper ID & Title:

440: How to choose the most sustainable pavement for noise mitigation on the Flanders motorway network?

Author Name

Pieter De Winne, Flemish Agency for Roads and Traffic; Margo Briessinck, Flemish Agency for Roads and Traffic, Head of the Road Structures Section; Barbara Vanhooreweder, Head of the Noise and Vibrations Section, Flemish Agency for Roads and Traffic

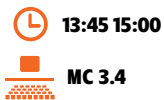




THS28: Pavements and environment (P V)

Moderator: Dr. Anne Beeldens, BRRC

- Paper ID & Title: **85: CO2 emission reduction by exploitation of rolling resistance modelling of pavements**
Author Name: Bjarne Schmidt, Danish Road Directorate; Jeppe C. Dyre, DNRFC centre "Glass and Time"
- Paper ID & Title: **143: Noise classification for tendering quiet asphalt wearing courses**
Author Name: Jørgen Kragh, Danish Road Directorate/Danish Road Institute; Hans Bendtsen, Danish Road Directorate/Danish Road Institute; Gregers Hildebrand, Danish Road Directorate/Danish Road Institute
- Paper ID & Title: **572: Sustainability Analysis Based on Emissions Saving for Competitive Maintenance and Rehabilitation Practices**
Author Name: Filippo Giustozzi, Virginia Tech; Maurizio Crispino, Politecnico di Milano; Gerardo Flintsch, Virginia Tech
- Paper ID & Title: **52: Performance based evaluation on the use of different waste materials in asphalt**
Author Name: Viktors Haritonovs, Riga Technical University, The Institute of Transportation; Martins Zaumanis, Riga Technical University, The Institute of Transportation; Guntis Brencis, Riga Technical University, The Institute of Transportation; Juris Smirnovs, Riga Technical University, The Institute of Transportation
- Paper ID & Title: **96: Life-cycle cost analysis system for pavement management**
Author Name: Joyo Santos, University of Coimbra, Department of Civil Engineering; Adelino Ferreira, University of Coimbra, Department of Civil Engineering



THS29: Logistics and intermodal transport (P VI)

Moderator: Mr. Bernard Jacob, IFSTTAR

- Paper ID & Title: **519: A Hybrid Heuristic Technique for Optimizing Intermodal Logistics Timed Transfer Systems**
Author Name: Cheng-Chieh (Frank) Chen, National Dong Hwa University, Graduate Institute of Logistics Management; Paul Schonfeld, University of Maryland, Department of Civil & Environmental Engineering
- Paper ID & Title: **158: Use of ITS technologies for multimodal transport operations – River Information Services (RIS) transport logistics services**
Author Name: Gerhard Schilk, via donau – Österreichische Wasserstraßen-Gesellschaft mbH; Lukas Seemann, via donau – Österreichische Wasserstraßen-Gesellschaft mbH
- Paper ID & Title: **155: The role of intelligent logistics centres in a multimodal and cost-effective transport system**
Author Name: Jenni Eckhardt, VTT Technical Research Centre of Finland; Jarkko Rantala, Tampere University of Technology, Department of Business Information Management and Logistics
- Paper ID & Title: **497: BE LOGIC: Benchmarking Logistics Chains**
Author Name: Jeroen Bozuwa, Ecorys Netherlands; Ronald Jorna, Mobycon; Valerio Recagno, D'Appolonia; Konstantinos Zografos, Athens University of Economics and Business, Transportation Systems and Logistics Laboratory
- Paper ID & Title: **759: Stakeholder perspectives on improving rail freight services on the eve of rail market liberalization: An analysis of the Turkish Rail Freight Market**
Author Name: Hulya Zeybek, INTADER, Intermodal Transportation and Logistics Research Association, Ankara, Turkey



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THEMATIC SESSIONS



THS30: Transport Mode Shifts (P I)

Moderator: Prof. Christer Hyden, Lund University

Paper ID & Title:
Author Name

150: Modeling Freight Mode Choice in Greece

Tatiana P. Moschovou, National Technical University of Athens; George A. Giannopoulos, Hellenic Institute of Transport

Paper ID & Title:

225: How simplifying urban driving cycles influence fuel consumption estimation?

Author Name
Thamara Vieira da Rocha, Universiti de Lyon; Bruno Jeanneret, IFSTTAR; Rochdi Trigui, IFSTTAR, Laboratoire Transports et Environnement (LTE); Ludovic Leclercq, Universiti de Lyon, IFSTTAR

Paper ID & Title:

238: Evaluation of a High Occupancy Vehicle Lane in Central Business District Thessaloniki

Author Name
Iraklis Stamos, Centre for Research and Technology Hellas (CERTH) – Hellenic Institute of Transport (HIT); George Kitis, Faculty of Rural and Surveying Engineering, Department of Transportation and Hydraulic Engineering; Socrates Basbas, Faculty of Rural and Surveying Engineering, Department of Transportation and Hydraulic Engineering; Ioannis Tzevelekis, Faculty of Rural and Surveying Engineering, Department of Transportation and Hydraulic Engineering

Paper ID & Title:

405: An individualized travel information system for optimizing mode and route choice behavior of commuters

Author Name
Oliver Roider, University of Natural Resources and Applied Life Sciences (BOKU); Christian Rudloff, Austrian Institute of Technology (AIT), Mobility Department (Dynamic Transportation Systems); Markus Ray, Austrian Institute of Technology (AIT), Mobility Department (Dynamic Transportation Systems)

Paper ID & Title:

635: Mode shift as a measure to reduce greenhouse gas emissions

Author Name
Bo-Lennart Nelldal, KTH Traffic and Logistics; Evert Andersson, KTH Aeronautical and Vehicle Engineering





15:30 16:45

MC 2

THS31: Safety on Vehicles oriented issues I (P III)

Moderator: Mr. Gianfranco Burzio, Centre Research Fiat

- Paper ID & Title: **50: For Improving Safety on Roads outside built-up areas with cooperative/self-sufficient Advanced Driver Assistance Systems**
 Author Name: Dipl.-Ing. Jörg Ortlepp, German Insurance Association, Insurers Accident Research; Dr.-Ing. Jean Emmanuel Bakaba, German Insurance Association
- Paper ID & Title: **107: Detection and tracking of moving objects for automotive driver assistance system**
 Author Name: Ilodie Vanpoperinghe, Univ Lille Nord de France, IFSTTAR, LEOST, ULCO, LISIC; Martine Wahl, Univ Lille Nord de France, IFSTTAR, LEOST; Jean-Charles Noyer, Univ Lille Nord de France, ULCO, LISIC
- Paper ID & Title: **220: Integrated Safety and Efficiency in Intelligent Vehicular Networks: Issues and Novel Constructs**
 Author Name: Girard Le Lann, INRIA
- Paper ID & Title: **439: Development of a dynamic Intelligent Speed Adaptation (ISA)**
 Author Name: Ta Van-Bao, Engineering Center of Île-De-France; Erge Michel, Laboratoire de Mécanique des Structures et des Procédés (LMSP UMR CNRS); Nazih Mechbal, Laboratoire de Mécanique des Structures et des Procédés (LMSP UMR CNRS); Guichon Dominique, Engineering Center of Île-De-France, Scientific and Technical Network (RST); SRAIRI Salim, Engineering Center of Île-De-France, Scientific and Technical Network (RST)
- Paper ID & Title: **654: When the road layout becomes persuasive for the road users: A functional study on safety and driver behaviour**
 Author Name: Marco Pasetto, Environmental and Architectural Engineering, University of Padua; Stefano Damiano Barbati, Environmental and Architectural Engineering, University of Padua



15:30 16:45

MC 3

THS32: Mobility & Accessibility I (P II)

Moderator: Prof. Dr. Barbara Lenz, German Aerospace Center (DLR)

- Paper ID & Title: **354: Development of a model for the estimation of pedestrian level of service in Greek urban areas**
 Author Name: Christopoulou Paraskevi, Aristotle University of Thessaloniki; Pitsiava – Latinopoulou Magdalini, Aristotle University of Thessaloniki, Department of Transport, A.U.Th.
- Paper ID & Title: **384: Recent Developments in Community Transport Provision: Comparative Experience from Britain and Australia**
 Author Name: Corinne Mulley, Institute for Transport and Logistics Studies; John D Nelson, Chair in Transport Studies, Centre for Transport Research
- Paper ID & Title: **291: Territorial accessibility analysis as a key variable for diagnosis of urban mobility: A case study Manizales (Colombia)**
 Author Name: Diego Escobar, National University of Colombia, Department of Civil Engineering; Francisco Garcia, National University of Colombia, Department of Civil Engineering
- Paper ID & Title: **273: Research roadmap towards an accessible public transport system for all**
 Author Name: Evangelos Bekiaris, Center for Research and Technology Hellas/Hellenic Institute of Transport; Evangelia Gaitanidou, Center for Research and Technology Hellas/Hellenic Institute of Transport
- Paper ID & Title: **326: Civitas MIMOSA project. Mobility Credit system in Bologna.**
 Author Name: Dora Ramazzotti, SRM – Reti e Mobilità–Public Transport Authority; Giuseppe Liguori, SRM – Reti e Mobilità–Public Transport Authority; Katrin Dziekan, Berlin Institute of Technology Berlin, School for Mechanical Engineering and Transport Systems Department of Land and Sea Transport Systems Chair of Integrated Transportation Planning



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THEMATIC SESSIONS

15:30 16:45

MC 3.2

THS33: Energy and Emissions Modeling I (P IV)

Moderator: Dr. Kenneth Rose, Concawe

- Paper ID & Title: **381: Coupling traffic, pollutant emission, air and water quality models: Technical review and perspectives**
- Author Name: Masoud Fallahshorshani, LTE Joint Laboratory IFSTTAR; Michel André LTE Joint Laboratory IFSTTAR; Céline Bonhomme, LEESU, École des Ponts ParisTech; Christian Seigneur, CEREAs, École des Ponts ParisTech/ EDF R&D
- Paper ID & Title: **81: Energy- and environmentally efficient road management: the case of the Spanish motorway network**
- Author Name: Andres Monzon, Universidad Politécnica de Madrid Centro de Investigación del Transporte (TRANSyT); Natalia Sobrino, (TRANSyT); Sara Hernandez, (TRANSyT)
- Paper ID & Title: **279: Towards improved vehicle emissions estimation in Europe**
- Author Name: Vicente Franco, European Commission Joint Research Centre (Institute for Energy and Transport); Georgios Fontaras, E.C. Joint Research Centre (Institute for Energy and Transport); Panagiota Dilara, E.C. Joint Research Centre (Institute for Energy and Transport)
- Paper ID & Title: **618: Improving an evolutionary multi-objective approach for optimizing railway energy consumption**
- Author Name: Aurelien Lejeune, Université Lille Nord de France – IFSTTAR ESTAS; Rimy Chevrier, Université Lille Nord de France – IFSTTAR ESTAS; Joaquín Rodríguez, Université Lille Nord de France – IFSTTAR ESTAS
- Paper ID & Title: **429: Estimation of pollutant emissions from the road traffic at a city scale, and its sensitivity as regards the calibration of the static traffic assignment models**
- Author Name: Eugénie Brutti-Mairesse, IFSTTAR – Laboratoire Transport Environnement; Sonia Teillac, IFSTTAR – Laboratoire Transport Environnement; Michel André, IFSTTAR – Laboratoire Transport Environnement; Ludovic Leclercq, Université de Lyon, IFSTTAR/ENTPE





 15:30 16:45

 MC 3.3

THS34: Assessment of bridges and tunnels (P V)

Moderator: Mr. Aleš Žnidaric, FEHRL, ZAG Ljubljana

Paper ID & Title:
Author Name

426: Increasing truck weight limits: Implications for bridges

Eugene J. Obrien, Roughan and O'Donovan Innovative Solutions; Albert Daly, National Roads Authority; Alan J. O'Connor, Roughan and O'Donovan Innovative Solutions; Fergal Cahill, National Roads Authority; John E. Arrigane, Roughan and O'Donovan Innovative Solutions

Paper ID & Title:
Author Name

546: Risk Assessment of Road Tunnels using Bayesian Networks

Matthias Schubert, Matrisk GmbH; Niels Peter Høj, HOJ Consulting GmbH; Arild Ragnøy, Norwegian Public Roads Administration; Harald Buvik, Norwegian Public Roads Administration

Paper ID & Title:

662: Employing train weigh in motion data in comparison of cumulative fatigue damage on bridges

Author Name
Andreas Ottosson, Rambøll Danmark A/S; Claus Pedersen, Rambøll Danmark A/S; Alan O'Connor, Trinity College Dublin

Paper ID & Title:
Author Name

584: Simplified approach to modelling traffic loads on bridges

Aleš Žnidaric, ZAG – Slovenian National Building and Civil Engineering Institute; Maja Kreslin, ZAG – Slovenian National Building and Civil Engineering Institute; Igor Lavric, ZAG – Slovenian National Building and Civil Engineering Institute; Jan Kalin, ZAG – Slovenian National Building and Civil Engineering Institute

 15:30 16:45

 MC 3.4

THS35: Safety infrastructures related issues I (P III)

Moderator: Mr. Stefan Deix, Austrian Institute Of Technology

Paper ID & Title:
Author Name

30: Assessment of Injury Rates Associated with Road Barrier Collision

Hawzheen Karim, Swedish Royal Institute of Technology; Rolf Magnusson, Dalarna University, School of Technology and Business Studies; Mats Wiklund, Swedish National Road and Transport Research Institute

Paper ID & Title:

228: A simulation framework for assessing the safety effects of soft and hard shoulders as examples of forgiving roadside treatments

Author Name
Philippe Nitsche, Austrian Institute of Technology; Rainer Stötz, Austrian Institute of Technology, Peter Saleh, Austrian Institute of Technology; Peter Maurer, Austrian Institute of Technology

Paper ID & Title:
Author Name

320: Assessing the safety impacts of intersection safety systems

Anna Schirokoff, VTT Technical Research Centre of Finland; Eetu Pilli-Sihvola, VTT Technical Research Centre of Finland; Niina Sihvola, VTT Technical Research Centre of Finland

Paper ID & Title:

331: The influence of the infrastructure characteristics in urban road accidents occurrence

Author Name
Sandra Vieira Gomes, National Laboratory of Civil Engineering, Transportation Department

Paper ID & Title:

65: Improving the links between research and road safety policy: the case of France and England's speed management

Author Name
Fabrice Hamelin, Universiti Paris-Est/IFSTTAR; Marine Moguen-Toursel, Universiti Paris-Est/IFSTTAR



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THS36: User Demand on Transport Services (P I)

Moderator: Dr. Adewole Adesiyun, FEHRL

Paper ID & Title:

72: Attitudes of Drivers towards Speed Enforcement Measures on Bangkok Expressways

Author Name: Jittichai Rudjanakanoknad, Assistant Professor; Papanun Prarom, Department of Civil Engineering; Sakda Panwai, Expressway Systems Engineering, Head of the Research and Development

Paper ID & Title:

116: Analysis of the discomfort feeling of standing bus passengers on the TEOR T1 Rouen bus lane

Author Name: Georges Beurier, Université de Lyon

Paper ID & Title:

459: Navigating Multi-modal Public Transport Systems: Real time perceptions of processual usability using video methodology

Author Name: Per Echeverri, Karlstad University

Paper ID & Title:

470: Estimating the Quality of Service of Underground Transit Systems with Cellular Network Data.

Author Name: Vincent Aguilera, Université Paris Est; Sylvain Allio, Orange Labs, Belfort; Vincent Benezech, Université Paris Est, LVMT; Frannois Combes, Université Paris Est; Chloé Milion, Orange Labs



THS37: Safety on Vehicles oriented issues II (P III)

Moderator: Moderator: Micha Lesemann, fka

Paper ID & Title:

195: Accurate Localisation Based on GNSS and Propagation Knowledge for Safe Applications in Guided Transport

Author Name: Juliette Marais, IFSTTAR; Sébastien Ambellouis, IFSTTAR; Amaury Flancquart, IFSTTAR; Sébastien Lefebvre, IFSTTAR; Cyril Meurie, Université de Technologie de Belfort-Montbeliard, Systems and Transportation Laboratory; Yassine Ruichek, Université de Technologie de Belfort-Montbeliard, Systems and Transportation Laboratory

Paper ID & Title:

196: Evaluation method of GNSS-based positioning functions for safety applications in operational conditions

Author Name: Juliette Marais, IFSTTAR, Julie Beugin, IFSTTAR

Paper ID & Title:

221: Characterization and simulation of optical sensors

Author Name: Mélanie Grapinet, IFSTTAR; Philippe De Souza, CIVITEC; Jean-Christophe Smal, IFSTTAR, LEMCO; Jean-Marc Blossville, IFSTTAR, LEMCO

Paper ID & Title:

383: Vehicle trajectory analysis: an advanced tool for road safety

Author Name: Bernard Jacob, IFSTTAR; Eric Violette, CETE Normandie Centre

Paper ID & Title:

265: A Vehicular Environment Perception Platform for Safety Related Applications

Author Name: Angelos Amditis, Institute of Communication and Computer Systems; Panagiotis Lytrivis, Institute of Communication and Computer Systems; Uri Iurgel, Delphi Deutschland GmbH; Grant Grubb, Volvo Technology Corporation; Nils Appenrodt, Daimler AG



16:45 18:00

MC 3

THS38: Mobility & Accessibility II (P II)

Moderator: Prof. Ass. Matthew Karlaftis, National Technical University of Athens

Paper ID & Title:

297: Investigating people's pro-environmental and active travel behaviour for successful sustainable travel promotion

Author Name

Foteini Mikiki, Aristotle University of Thessaloniki; Panos Papaioannou, Prof. Aristotle University of Thessaloniki

Paper ID & Title:

659: Enhance Accessibility in Traditional Districts: A case study of the "Upper Town" of Thessaloniki

Author Name

Apostolos Papagiannakis, Aristotle University of Thessaloniki, Department of Spatial Planning and Development; Maria Tsami, University of Thessaly, Department of Civil Engineering

Paper ID & Title:

699: Car Sharing in Rome: a Case Study to Support Sustainable Mobility

Author Name

Antonio Musso, University of Rome; Maria Vittoria Corazza, University of Rome; Michele Tozzi, University of Rome

Paper ID & Title:

585: Evaluation of mobility management assistance systems : A Competence and Innovation Pole (CIP)

Author Name

Louahdi Khoudour, CETE of South West : Public Studies and Engineering centre of the French Ministry of Ecology; Thomas Durlin, CETE of South West: Public Studies and Engineering centre of the French Ministry of Ecology; Marie-Reine Bakry, CETE of South West: Public Studies and Engineering centre of the French Ministry of Ecology; Catherine Barthe, CETE of South West: Public Studies and Engineering centre of the French Ministry of Ecology; Sibastien Romon, CETE of South West: Public Studies and Engineering centre of the French Ministry of Ecology

Paper ID & Title:

303: Car-Sharing – "Car-on-call" for reclaiming street space

Author Name

Michael Glotz-Richter, City of Bremen / Senate Dpt. for Environment





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THEMATIC SESSIONS

🕒 16:45 18:00

MC 3.2

THS39: Energy and Emissions Modeling II (P IV)

Moderator: Prof. Dimitrios Hountalas, National Technical University of Athens

- Paper ID & Title: **687: Development of a methodology and tool to evaluate the impact of ICT measures on road transport emissions**
- Author Name: Zissis Samaras, Aristotle University of Thessaloniki; Leonidas Ntziachristos, Aristotle University of Thessaloniki; Gianfranco Burzio, Centro Ricerche Fiat S.C.p.A.; Silvana Toffolo, IVECO S.p.A.; Reinhard Tatschl, AVL List GmbH; Joachim Mertz, Berner & Mattner Systemtechnik GmbH; Andres Monzon, Universidad Politecnica de Madrid
- Paper ID & Title: **422: What is the real-world CO₂ reduction benefit of the 95 g/km passenger car average emission target to be reached by 2020?**
- Author Name: Leonidas Ntziachristos, Lab of Applied Thermodynamics, Aristotle University; Giorgos Mellios, EMISIA SA; Zissis Samaras, Aristotle University, Lab of Applied Thermodynamics
- Paper ID & Title: **577: A scenario evaluation model for the application of CO₂ and air pollutant reduction policies**
- Author Name: Dimitrios Gkatzoflias, Emisia S.A; Chariton Kouridis, Emisia S.A; Giorgos Mellios, Emisia S.A; Vassilis Saliakas, Emisia S.A; Petros Katsis, Emisia S.A
- Paper ID & Title: **58: Reducing Freight transport CO₂ emissions by increasing the load factor;**
- Author Name: Christophe Rizet, University Paris-Est; Cecilia Cruz, University Paris-Est, IFSTTAR; Mariame Mbacké University Paris-Est IFSTTAR
- Paper ID & Title: **496: Technology assessment of Plugin Hybrid Electric Vehicles with respect to energy demand and CO₂ emissions**
- Author Name: Gil Georges, LAV-ETH Zurich; Fabrizio Noembrini, LAV-ETH Zurich; Konstantinos Boulouchos, LAV-ETH Zurich

🕒 16:45 18:00

MC 3.3

THS40: Pavement maintenance and operation (P V)

Moderator: Prof. Johann Litzka, Vienna University

- Paper ID & Title: **53: Development of calculation tool for assessing the energy demand of Warm Mix Asphalt**
- Author Name: Martins Zaumanis, Riga Technical University, The Institute of Transportation; Jan Jansen, Technical University of Denmark; Viktors Haritonovs, Riga Technical University, The Institute of Transportation; Juris Smirnovs, Riga Technical University, The Institute of Transportation
- Paper ID & Title: **169: Dynamic modeling of winter maintenance strategies and their impact on skid resistance**
- Author Name: Markus Hoffmann, Vienna University of Technology – Institute of Transportation; Peter Nutz, Vienna University of Technology – Institute of Transportation; Ronald Blab, Vienna University of Technology – Institute of Transportation
- Paper ID & Title: **212: Axle load trends in Hungary and their effects on pavement structural design**
- Author Name: Andras Gulyas, Hungarian Public Road Non-Profit Pte Ltd Co.
- Paper ID & Title: **453: Optimizing the Highway Lifetime by Improving the Self Healing Capacity of Asphalt**
- Author Name: Ali Azhar Butt, KTH Royal Institute of Technology; Bjørn Birgisson, KTH Royal Institute of Technology; Niki Kringos, KTH Royal Institute of Technology, Highway and Railway Engineering
- Paper ID & Title: **517: Adaptation to Climate Change – Task Group under CEDR**
- Author Name: Gordana Petkovic, Norwegian Public Roads administration; Skuli Thordarson, Vegsyn



🕒 16:45 18:00

MC 3.4

THS41: Transport Decision Support & User acceptance (P VI)

Moderator: Dr. Aggelos Bekiaris, Centre for Research and Technology Hellas

- Paper ID & Title: **633: User Uptake of Nomadic and After Market Devices. Experiences from the TeleFOT project**
- Author Name: Pontus Engelbretsson, Department of Product and Production Development, Division Design & Human Factors; MariAnne Karlsson, Division Design & Human Factors, Department of Product and Production Development
- Paper ID & Title: **278: WISETRIP- International multimodal journey planning and delivery of personalized trip information**
- Author Name: Vassilis Spitadakis, Forthnet S.A., Science & Technology Park of Crete; Maria Fostieri, Forthnet S.A., Science & Technology Park of Crete
- Paper ID & Title: **494: User Acceptance and Willingness to Pay for the Use of Multimodal Trip Planning Systems**
- Author Name: Konstantinos G. Zografos, Athens University of Economics and Business, Transportation Systems and Logistics Laboratory; Konstantinos N. Androutopoulos, Athens University of Economics and Business, Transportation Systems and Logistics Laboratory; Eleni Apospori, Athens University of Economics and Business, Transportation Systems and Logistics Laboratory
- Paper ID & Title: **605: A simple representation of a complex urban transport system based on the analysis of transport demand: the case of Region Ile-de-France**
- Author Name: Francois Combes, Universit Paris-Est; Rob van Nes, Delft University of Technology, Transport and Planning Department





Thursday 26 April 2012

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THEMATIC SESSIONS

9:00 10:15



THS42: Robust and Resilient Transport Systems (P I)

Moderator: Dr. Hans Jeekel, Rijkswaterstaat

Paper ID & Title:
Author Name

29: Introducing gaming simulation in the Dutch railways

Sebastian Meijer, KTH Royal Institute of Technology

Paper ID & Title:
Author Name

115: European- and global urban guided transit: Green- and socio-economic fit

Dave van der Meulen, Railway Corporate Strategy CC; Fienie Möller, Railway Corporate Strategy CC

Paper ID & Title:

591: How can procurement contribute to network performance? Streamlining network, project and procurement objectives.

Author Name

Wim Leendertse, Delft University of Technology, Faculty of Civil Engineering and Geosciences; Jos Arts, Rijkswaterstaat, Ministry of Infrastructure and the Environment; Hennes de Ridder, Delft University of Technology, Faculty of Civil Engineering and Geosciences

Paper ID & Title:
Author Name

691: Resilience in transportation systems

Pavlos Tamvakis, Aristotle University of Thessaloniki; Yiannis Xenidis, Aristotle University of Thessaloniki

Paper ID & Title:
Author Name

608: CBA & Darwin: the case of transport infrastructure in France

Emile Quinet, Paris School of Economics, Ecole des Ponts ParisTech; David Meunier, Universiti Paris-Est, LVMT

9:00 10:15



THS43: General safety approaches (P III)

Moderator: Mr. Jean Pierre Medevielle, IFSTTAR

Paper ID & Title:
Author Name

186: SAFEDOR – the implementation of risk-based ship design and approval

Christian Breinholt, Danish Maritime Authority; Karl-Christian Ehrke, SAM Electronics; Apostolos Papanikolaou, National Technical University of Athens; Pierre C. Sames, Germanischer Lloyd SE; Rolf Skjong, Det Norske Veritas; Tom Strang, Carnival Plc; Dracos Vassalos, University of Glasgow and Strathclyde; Thomas Witolla, Meyerwerft

Paper ID & Title:
Author Name

84: BEST PRACTICE IN EUROPEAN TRAFFIC INCIDENT MANAGEMENT

John Steenbruggen, Departement of Spatial Economics, VU University; Michel Kusters, Ministry of Infrastructure and Environment; Gerrit Broekhuizen, Ministry of Infrastructure and Environment

Paper ID & Title:

435: The advantage of late-comers: Analysis of road fatality rates in the EU Member States

Author Name

Csaba Koren, Szichenyi Istvan University; Attila Borsos, Szichenyi Istvan University

Paper ID & Title:
Author Name

549: Road Safety Services for Low-Cost International Coach Transportation

Ashweeni Beeharee, University College London; Sebastien Grazzini, Eutelsat; Guy Fremont, Sanef

Paper ID & Title:

657: Operational Evaluation of Detection-Control System, a Dilemma Zone Protection Technology

Author Name

Wei Zhang, Federal Highway Administration; Rafael Olarte, Dept. of Civil & Environmental Eng



🕒 9:00 10:15

MC 3

THS44: Traffic Management (PII)

Moderator: Mr. Tariq van Rooijen, TNO – innovation for life

- Paper ID & Title: **330: Congestion Control in Urban Networks under Saturated Traffic Conditions via Feedback Gating**
- Author Name: Mehdi Keyvan Ekbatani, Dynamic Systems and Simulation Laboratory, Department of Production and Engineering Management, Technical University of Crete; Anastasios Kouvelas, Dynamic Systems and Simulation Laboratory, Department of Production and Engineering Management, Technical University of Crete; Ioannis Papamichail, Dynamic Systems and Simulation Laboratory, Department of Production and Engineering Management, Technical University of Crete; Markos Papageorgiou, Dynamic Systems and Simulation Laboratory, Department of Production and Engineering Management, Technical University of Crete
- Paper ID & Title: **327: Integrated ramp metering and mainstream traffic flow control on freeways using variable speed limits**
- Author Name: Rodrigo C. Carlson, Ministry of Education of Brazil, The Capes Foundation; Diamantis Manolis, Technical University of Crete, Dynamic Systems and Simulation Laboratory; Ioannis Papamichail, Technical University of Crete, Dynamic Systems and Simulation Laboratory; Markos Papageorgiou, Dynamic Systems and Simulation Laboratory
- Paper ID & Title: **324: Real-time merging traffic control for throughput maximization at motorway work zones**
- Author Name: Athina Tympakianaki, Technical University of Crete, Dynamic Systems and Simulation Laboratory; Anastasia D. Spiliopoulou, Technical University of Crete, Dynamic Systems and Simulation Laboratory; Anastasios Kouvelas, Technical University of Crete, Dynamic Systems and Simulation Laboratory; Markos Papageorgiou, Technical University of Crete, Dynamic Systems and Simulation Laboratory
- Paper ID & Title: **299: Tunnel access control integrated in the traffic management**
- Author Name: Tor K. Moseng, SINTEF ICT; Marit K. Natvig, SINTEF ICT; Ola Martin Lykkja, Q-Free ASA, Oslo; Hans Westerheim, SINTEF ICT
- Paper ID & Title: **602: The Need for Transition from Macroscopic to Microscopic Traffic Management Schemes to Improve Safety and Mobility**
- Author Name: Filmon G. Habtemichael, Technical University of Lisbon, CESUR – DECivil – Instituto Superior Tecnico; Luis de Picado Santos, Technical University of Lisbon, CESUR – DECivil – Instituto Superior Tecnico



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THEMATIC SESSIONS

9:00 10:15

MC 3.2

THS45: Innovative Electromobility Schemes (P IV)

Moderator: **Dr. Ali Mohammadi**, Senior Manager at Toyota Motor Europe

Paper ID & Title:

133: Actors' positions and inclinations towards the electromobility system in France

Author Name

Shadi Sadeghian, Mobility &Transport Laboratory; Mariane Thibert, Mobility &Transport Laboratory; Fabien Leurent, Mobility &Transport Laboratory; Patricia Sajous, University of Le Havre

Paper ID & Title:

188: Spatial exploration of Effective electric vehicle infrastructure location

Author Name

Dimitrios Efthymiou, National Technical University of Athens; Constantinos Antoniou, National Technical University of Athens; Yannis Tyrinopoylos, Technological Educational Institute of Athens; Evangelos Mitsakis, PhD Candidate

Paper ID & Title:

595: Green Move: an innovative electric vehicle-sharing system

Author Name

Alessandro Lué, Poliedra - Politecnico di Milano; Alberto Colorni, Dipartimento INDACO - Politecnico di Milano; Roberto Nocerino, Poliedra - Politecnico di Milano; Valerio Paruscio, Poliedra - Politecnico di Milano

Paper ID & Title:

173: Cooperative Machine-Learning Based Advanced Driver Assistance System for Green Cars

Author Name

Michalis Masikos, Institute of Communication and Computer Systems; Konstantinos Demestichas, Institute of Communication and Computer Systems; Evgenia Adamopoulou, Institute of Communication and Computer Systems; Efstathios Sykas, Institute of Communication and Computer Systems

Paper ID & Title:

408: Modeling Demand for Electric Cars - A Methodical Approach

Author Name

Christoph Link, Institute for Transport Studies, University of Natural Resources and Life Sciences; Ulrike Raich, Institute for Transport Studies, University of Natural Resources and Life Sciences; Gerd Sammer, Institute for Transport Studies, University of Natural Resources and Life Sciences; Juliane Stark, Institute for Transport Studies, University of Natural Resources and Life Sciences

9:00 10:15

MC 3.3

THS46: Combined infrastructure and vehicle effects (P V)

Moderator: **Prof. Andreas Loizos**, National Technical University of Athens

Paper ID & Title:

456: Achievements and lessons learnt in the EU project Zero Regio

Author Name

Heinrich Lienkamp, Infraseriv GmbH & Co. Höchst KG; Ashok Rastogi, Infraseriv GmbH & Co. Höchst KG

Paper ID & Title:

482: Earth loading and hauling optimal trade-off

Author Name

Marina Marinelli, National Technical University of Athens; Sergios Lambropoulos, National Technical University of Athens

Paper ID & Title:

379: The DIRECT-MAT web database - A source of knowledge in road recycling

Author Name

Maria Arm, Swedish Geotechnical Institute; Yannick Descantes, French institute of science and technology for transport, development and networks (IFSTTAR); Finn Thøgersen, Danish Road Institute (DRI); László Gaspar, Institute for Transport Sciences (KITI); Konrad Mollenhauer, Braunschweig Institute of Technology (TUBS/ISBS); Luc De Bock, Belgian Road Research Centre (BRRC); Jean-Baptiste Gobert, French institute of science and technology for transport, development and networks (IFSTTAR)



9:00 10:15

MC 3.4

THS47: Safety infrastructures related issues II (P III)

Moderator: Prof. Ass. Nikos Eliou, University of Thessaly

- Paper ID & Title: **328: State-space based analysis and forecasting of macroscopic road safety trends in Greece**
- Author Name: Constantinos Antoniou, National Technical University of Athens; George Yannis, National Technical University of Athens
- Paper ID & Title: **263: Tools needed for enhancing transferability of cost-effective road safety measures**
- Author Name: Harri Peltola, VTT Technical Research Centre'Riikka Rajamäki, VTT Technical Research Centre' Juha Luoma, VTT Technical Research Centre
- Paper ID & Title: **574: Road safety in Greece**
- Author Name: George Yannis, National Technical University of Athens; Eleonora Papadimitriou, National Technical University of Athens



**MONDAY, 23 APRIL - Pillar IV**

14:00 - 18:00

N. Skalkotas
Hall Level

- Paper ID & Title: **17: CO2 Emissions of the Container World Fleet**
Author Name: Pierre C. Sames, Germanischer Lloyd SE; Martin Köpke, Germanischer Lloyd SE
- Paper ID & Title: **75: Eco innovative refitting technologies and processes for shipbuilding industry: Project overview**
Author Name: Francisco del Castillo de Comas, University of Strathclyde, Glasgow; Eduardo Blanco, Fundación Centro Tecnológico SOERMAR
- Paper ID & Title: **76: Assessing the productivity and the environmental impacts of earthwork machines: a case study for GPS-instrumented excavator**
Author Name: Adrien Capony, LUNAM Université, Ifsttar; Tristan Lorino, LUNAM Université, Ifsttar ; Bogdan Muresan, LUNAM Université, Ifsttar; Yvan Baudru, LUNAM Université, Ifsttar; Michel Dauvergne, LUNAM Université, Ifsttar; Michel Dunand, Guintoli, Parc d'activitis de Laurade; Didier Colin, Trimble; Agnès Jullien, LUNAM Université, Ifsttar
- Paper ID & Title: **110: Quality of sediment in detention basins – mapping of the Danish national road network**
Author Name: Marianne Grauert, Danish Road Directorate; Michael Larsen, Danish Road Directorate; Mikkel Mollerup, Danish Road Directorate
- Paper ID & Title: **139: Noise emission of structured road markings**
Author Name: Annette Gail, Federal Highway Research Institute (BASt); Wolfram Bartolomaeus, Federal Highway Research Institute (BASt)
- Paper ID & Title: **185: Environmental adjusted speed on E18**
Author Name: Björn Carselid, Swedish Transport Adm
- Paper ID & Title: **190: Electromobility For City Logistics – The Solution To Urban Transport Collapse? An Analysis Beyond Theory**
Author Name: Verena Ehrlér, Head of Dept., Institute of Transport Research, German Aerospace Center (DLR e. V.); Paul Hebes, Doctoral Research Fellow, Institute of Transport Research, German Aerospace Center (DLR e. V.)
- Paper ID & Title: **207: Assessment of operational results of a downdraft biomass gasifier coupled with a gas engine**
Author Name: Nikolaos K. Margaritis, Institute for Solid Fuels Technology & Applications; Panagiotis Grammelis, Institute for Solid Fuels Technology & Applications; David Vera, University of Jain, Spain; Francisco Jurado, University of Jain, Spain
- Paper ID & Title: **222: Mapping Transport Sensitive Areas at EU level: the ASSET Project**
Author Name: Riccardo Enei, ISIS, Institute of Studies for the Integration of Systems; Bernd Mönier, Aarhus University, Department of Environmental Science; Andrea Ricci, Institute of Studies for the Integration of Systems; Morten Fuglsang, Aarhus University, Department of Environmental Science
- Paper ID & Title: **240: Energy harvesting applications in transportation infrastructure networks**
Author Name: Konstantinos Gkoumas, Sapienza University of Rome, Faculty of Engineering; Oriana De Gaudenzi, Sapienza University of Rome, Faculty of Engineering; Francesco Petrini, Sapienza University of Rome, Faculty of Engineering



MONDAY, 23 APRIL - Pillar IV

🕒 14:00 - 18:00

📍 N. Skalkotas
Hall Level

(continued from previous page)

- Paper ID & Title: **242: Preparing for high fuel cost and environmental restrictions with a 200 TEU container vessel using wind and solar energy saving over 50% with a new operation model**
 Author Name: Carlos Alvarez-Cascos G.Mauripo, ACCIONA Transmediterranea; Volker H.Rosenkranz, Innovacion Logistica SL
- Paper ID & Title: **253: Impact of intercity tolls in Portugal – An environmental perspective**
 Author Name: Jorge Bandeira, University of Aveiro Centre for Mechanical Technology and Automation; Margarida Coelho, University of Aveiro Centre for Mechanical Technology and Automation; Miguel Pimentel, University of Aveiro Centre for Mechanical Technology and Automation; Asad Khattak, Civil & Environmental Engineering Department, U.S.A.
- Paper ID & Title: **261: Greenhouse gas emissions on four-lane and two-lane roads**
 Author Name: Marie Aarestrup Aasness, Norwegian Public Road Administrations
- 289: Value for money in road traffic noise abatement**
 Ingunn Milford, Norwegian Public Road Administrations; Sigve J. Aasebo, Ernst & Young AS; Kjell Strommer, Swedish Transport Administration
- Paper ID & Title: **300: Efficiency improvement of large scale 2-stroke Diesel engines through the recovery of exhaust gas using a Rankine cycle**
 Author Name: Dimitrios T. Hountalas, School of Mechanical Engineering, National Technical University of Athens; Christos Katsanos, School of Mechanical Engineering, National Technical University of Athens; Georgios C. Mavropoulos, School of Mechanical Engineering, National Technical University of Athens
- Paper ID & Title: **312: Investigation of turbine stator geometry effect on the performance of a turbocharged heavy duty diesel engine using a meanline radial turbine performance prediction model**
 Author Name: Nikolaos Sakellaris, Internal Combustion Engines Dipl. Ing. (NTUA); Dimitrios Hountalas, National Technical University of Athens
- Paper ID & Title: **325: Future development in road freight transport regarding more environmentally friendly vehicle technologies**
 Author Name: Dipl.-Ing. Andreas Lischke, Institute of Transport Research; Dipl.-Volksw. Gunnar Knitschky, Institute of Transport Research
- Paper ID & Title: **373: Climate change and infrastructure performance: should we worry about?**
 Author Name: Irina Stipanovic Oslakovic, University of Twente, Construction Management and Engineering Department; Herbert ter Maat, Wageningen University, Earth System Science and Climate Change Group; Andreas Hartmann, University of Twente, Construction Management and Engineering Department; Geert Dewulf, University of Twente, Construction Management and Engineering Department
- Paper ID & Title: **545: Railway Capacity Handbook: A Systematic Approach to Methodologies**
 Author Name: Evangelia Kontaxi, University of Rome "La Sapienza"; Stefano Ricci, University of Rome "La Sapienza"



MONDAY, 23 APRIL - Pillar IV

🕒 14:00 - 18:00

📍 N. Skalkotas
Hall Level

- Paper ID & Title: **507: Spectroscopic appreciation of road de-icers in soil and water samples**
Author Name: Ivana Durickovic, CITI de l'Est – Laboratoire Rgional des Ponts et Chaussies de Nancy ; Mario Marchetti, CITI de l'Est – Laboratoire Rgional des Ponts et Chaussies de Nancy ; Guillaume Derombise, CITI de l'Est – Laboratoire Rgional des Ponts et Chaussies de Nancy ; Stephanie Poissonnier, CITI de l'Est – Laboratoire Rgional des Ponts et Chaussies de Nancy ; Lucie Framont-Terrasse, CITI de l'Est – Laboratoire Rgional des Ponts et Chaussies de Nancy ; Stephane Ludwig, CITI de l'Est – Laboratoire Rgional des Ponts et Chaussies de Nancy ; Mathieu Moutton, CITI de l'Est – Laboratoire Rgional des Ponts et Chaussies de Nancy ; Nassera Belardi, CITI de l'Est – Laboratoire Rgional des Ponts et Chaussies de Nancy
- Paper ID & Title: **579: Simulation platform to evaluate consumption for a route road**
Author Name: Aurelio DÍaz de Arcaya, Media Unit; Luis Usatorre, Media Unit; Gonzalo Lázaro, Media Unit; M. O. de Zàrate, Media Unit; U. M. de Estarrona, Media Unit; PS. de Buruaga, Media Unit; Dr.K.Demistichas, Institute of Communications & Computer Systems,computer Networks Laboratory; Dr.E. Adamopoulou, Institute of Communications & Computer Systems,computer Networks Laboratory
- Paper ID & Title: **596: The Carbon Footprint of Attica Tollway**
Author Name: Dimitris Mandalozis, Strategic and Organisational Manager; Bill Halkias, CEO; Helen Tyrogianni, Head of Consulting Services; Natalie Kalfa, Civil Engineer- Transport Planner
- Paper ID & Title: **598: The Attica Tollway Operations Authority KPI Performance System**
Author Name: Helen Tyrogianni, Head of Consulting Services; Bill Halkias, CEO; Anna Politou, Civil Engineer- Transport Planner; Pagona Kotzampassi, Applied Maths Engineer
- Paper ID & Title: **676: Hybrid User Forum - an innovative approach in RTD**
Author Name: Michael Glotz-Richter, Hybrid User Forum moderation; Bonnie Fenton, Hybrid User Forum moderation; Sara Erkfeldt, Volvo Technology AB
- Paper ID & Title: **736: Thermal Systems Integration for Fuel Economy - TIFFE**
Author Name: Riccardo Secardini, Centro Ricerche Fiat; Riccardo Secardini, Centro Ricerche Fiat
- Paper ID & Title: **463: ERRAC Roadmap. Towards 2030: energy, noise and vibration European railway roadmaps**
Author Name: Christophe Cheron, ERRAC WG1 leader; Manfred Walter, ERRAC WG1 co-leader; Judit Sandor, ERRAC WG1 member, UNIFE – The European Rail Industry; Enno Wiebe, ERRAC WG1 member, UIC – International Union Of Railways
- Paper ID & Title: **359: Locomotive Cooling Systems: A Multi-Domain System Strategy for Efficient and Quieter Cooling Units**
Author Name: Sebastian Knirsch, Voith Turbo GmbH & Co. KG; Dietmar Mandt, Voith Turbo GmbH & Co. KG; Uwe Mauch, Voith Turbo GmbH & Co. KG; Tobias Dochtermann, Voith Turbo GmbH & Co. KG; Thomas Carolus, Universitôt Siegen
- Paper ID & Title: **231: Enhance the Environmental Performance of Railway Infrastructure**
Author Name: Marina Fracchia, NITEL; Raul Carlson, eco2win AB; P. Steckler, Vienna University of Technology; Andreas Oberhauser, Wiener Linien GmbH & Co KG; Nancy Leitao, Balfour Beatty Rail, S.p.A.



TUESDAY, 24 APRIL - Pillar VI

🕒 09:00 - 13:00

📍 N. Skalkotas
Hall Level

- Paper ID & Title: **332: Analysis of illegal parking behavior in Greece**
Author Name: Christina Spiliopoulou, DENCO SA; Constantinos Antoniou, National Technical University of Athens, School of Rural and Surveying Engineering
- Paper ID & Title: **217: Appreciated – but with a fading grace of novelty! Traveller’s assessment of, usage of and behavioural change given access to a co-modal travel planner**
Author Name: Tor Skoglund, Chalmers University of Technology; I.C. MariAnne Karlsson, Chalmers University of Technology
- Paper ID & Title: **544: Analysis of the female transport demand in France since 1970**
Author Name: Roger Collet, Université Paris-Est, IFSTTAR; Sophie Roux, Université Paris-Est, IFSTTAR ; Jimmy Armoogum, Université Paris-Est, IFSTTAR
- Paper ID & Title: **69: Distribution of driving licenses over the past 40 years**
Author Name: Sophie Roux, CRIDUP, Université Paris I Panthion–Sorbonne ; Jimmy Armoogum, Upe, Ifsttar
- Paper ID & Title: **70: Car fleet distribution and use over the past 50 years in France**
Author Name: Sophie Roux, CRIDUP, Université Paris I Panthion–Sorbonne; Jimmy Armoogum, Université Paris-Est, IFSTTAR; Francis Papon, Université Paris-Est, IFSTTAR ; Jean-Loup Madre, Université Paris-Est, IFSTTAR
- Paper ID & Title: **189: Use of social media for transport data collection**
Author Name: Dimitrios Efthymiou, National Technical University of Athens; Constantinos Antoniou, National Technical University of Athens
- Paper ID & Title: **661: Density Effect on Mobility Characteristics in France**
Author Name: Clotilde Minster, Université Paris 1, CRIA, UMR 8504 – DEST-IFSTTAR; Jean-Paul Hubert, Université Paris-EST – DEST-IFSTTAR
- Paper ID & Title: **394: Green corridors by means of ICT applications**
Author Name: Prof. Dr.-Ing. Uwe Clausen, TU Dortmund University; Christiane Geiger, TU Dortmund University; Carl Behmer, Fraunhofer-Institute for Material Flow and Logistics
- Paper ID & Title: **418: Intelligent policy recommendations on ports administration: Introducing a business model approach for the evaluation of ports’ services**
Author Name: Maria Morfoulaki, Hellenic Institute of Transport; Anestis Papanikolaou, Hellenic Institute of Transport; Seraphim Kapros, University of the Aegean, Department of Shipping Trade and Transport
- Paper ID & Title: **619: Changing port–city interface at Corinth (Greece): transformations and opportunities**
Author Name: Lucio Zazzara, Università degli Studi “G. d’Annunzio”di Chieti; Federico D’Amico, Università degli Studi “G. d’Annunzio”di Chieti; Marietta Vrotsou, Università degli Studi “G. d’Annunzio”di Chieti
- Paper ID & Title: **22: Facing Up The Congestion And Environmental Challenges Of Europe**
Author Name: Franco Castagnetti, Newopera

**TUESDAY, 24 APRIL - Pillar VI**

09:00 - 13:00

 N. Skalkotas
Hall Level

- Paper ID & Title: **171: VISIONS OLYMPICS European Student Competitions on visionary concepts for vessels and floating structures for the future**
Author Name: George Smyrnakis, WEGEMT; Dr. Zoe Agiasophiti, WEGEMT; George Politis, School of Marine Science and Technology
- Paper ID & Title: **174: Telework/Workforce flexibility to reduce congestion and environmental degradation?**
Author Name: Adeel Lari, University of Minnesota
- Paper ID & Title: **251: Impacts of a metro station to the land use and transport system: the Thessaloniki metro case**
Author Name: Anastasia Roukouni, Aristotle University of Thessaloniki; Socrates Basbas, Aristotle University of Thessaloniki; Alexandros Kokkalis, Democritus University of Thrace
- Paper ID & Title: **257: Simulation-Driven Validation of Advanced Driving-Assistance Systems**
Author Name: Assia Belbachira, IFSTTAR; Jean-Christophe Smal, IFSTTAR; Jean-Marc Blosseville, IFSTTAR; Dominique Gruyer, IFSTTAR
- Paper ID & Title: **262: Vehicle-to-Vehicle Communication for a Platooning System**
Author Name: Carl Bergenhem, SP Technical Research Institute of Sweden; Erik Hedin, SP Technical Research Institute of Sweden; Daniel Skarin, SP Technical Research Institute of Sweden
- Paper ID & Title: **149: SAFECYCLE: e-safety applications for safe cycling in Europe**
Author Name: Ronald Jorna, Mobycon; Henk Jan Zoer, Mobycon
- Paper ID & Title: **590: ENHANCED WISETRIP: Wide Scale Multimodal and Intelligent Journey Planning**
Author Name: Alma Solar, ETRA I+D; Antonio Marquis, ETRA I+D
- Paper ID & Title: **576: Developing a Decision-Making Framework for Collaborative Practices in Long-Short Distance Transport Interconnection**
Author Name: Giannis Adamos, University of Thessaly, Department of Civil Engineering; Eftihia Nathanail, University of Thessaly, Department of Civil Engineering; Eleni Zacharaki, Hellenic Ministry of Infrastructure, Transport and Networks
- Paper ID & Title: **450: Perceived Attributes in Multidimensional Appraisal of Urban Public Transportation**
Author Name: Mehdi Keyvan Ekbatani, Department of Civil Engineering, Sharif University of Technology; Manouchehr Vaziri, Department of Civil Engineering, Sharif University of Technology
- Paper ID & Title: **695: Certification of automated transport systems**
Author Name: Jan van Dijke, TNO Integrated Vehicle Safety; Margriet van Schijndel, TNO Integrated Vehicle Safety; Fawzi Nashashibi, INRIA; Arnaud de la Fortelle, INRIA
- Paper ID & Title: **282: The development of local implementation scenarios for innovative urban transport concepts: the NICHES+ approach**
Author Name: Ivo Cré, Polis; Siegfried Rupprecht, Rupprecht Consult; Sebastian Bóhrmann, Rupprecht Consult



TUESDAY, 24 APRIL - Pillar VI

09:00 - 13:00

N. Skalkotas
Hall Level

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- Paper ID & Title: **366: Low Speed Automation, a French initiative**
Author Name: Sibastien Glaser, IFSTTAR; Maurice Cour, CONTINENTAL Automotive SAS; Lydie Nouveliere, IBISC – UEVE; Jain Lambert, IEF; Fawzi Nashashibi, INRIA; Jean-Christophe Popleul, LAMIH, UVHC; Benjamin Mourllion, MIPS
- Paper ID & Title: **698: On-Board STS-Crane on a catamaran container vessel as combination of jib-and gantry-crane serving small ports, improving logistic efficiency**
Author Name: Volker H. Rosenkranz, Innovacion Logistica SL; Carlos Alvarez-Cascos G.Mauripo, ACCIONA Trasmediterranea
- Paper ID & Title: **637: Nomadic devices in the vehicle environment – field operational tests in Greece**
Author Name: Katia Pagle, Institute of Communications and Computer Systems (ICCS); Christina Kotsiourou, Institute of Communications and Computer Systems (ICCS); Angelos Amditis, Institute of Communications and Computer Systems (ICCS)
- Paper ID & Title: **184: Air quality management test using VMS**
Author Name: Susanne Planath, ITS, Swedish Transport Administration; Björn Carselid, ITS, Swedish Transport Administration
- Paper ID & Title: **104: An application for the information of children according their school transportation**
Author Name: Kostas Kalogirou, CERTH/HIT; Eleni Chalkia, CERTH/HIT; Evangelos Bekiaris, CERTH/HIT; Frederik Diederichs, Fraunhofer IAO



**TUESDAY, 24 APRIL - Pillar III**

🕒 14:00 - 18:00

 N. Skalkotas
Hall Level

- Paper ID & Title: **290: Adding technological solutions for safety improvement at level crossings: a functional specification**
Author Name: Khaled Bahloul, Univ Lille Nord de France; Frannois Defossez, Univ Lille Nord de France; Mohamed Ghazel, Univ Lille Nord de France; Simon Collart-Dutilleul, Univ Lille Nord de France
- Paper ID & Title: **451: Integration of B activity into a global design process of critical software**
Author Name: Philippe Bon, IFSTTAR-ESTAS; Simon Collart-Dutilleul, Icole Centrale de Lille/LAGIS; Dorian Petit, Universiti de Valenciennes et du Hainaut Cambrisis
- Paper ID & Title: **615: Evaluation of the safety level of a hot box detection system by using estimated rates**
Author Name: Jacques Hirard, SP Technical Research Institute of Sweden; Micha Lesemann, Institut für Kraftfahrzeuge RWTH Aachen University; Andris Aparicio, IDIADA Automotive Technology SA; Henrik Eriksson, SP Technical Research Institute of Sweden; Jan Jacobson, SP Technical Research Institute of Sweden
- Paper ID & Title: **617: MODSafe Project – Overview of a proposed Life Cycle Approach for Urban Guided Transport Systems**
Author Name: Peter Wigger, MODSafe Coordinator, TÜV Rheinland InterTraffic GmbH
- Paper ID & Title: **667: Independent Safety Assessment - Benefits and Methodology**
Author Name: Peter Wigger, TÜV Rheinland InterTraffic GmbH
- Paper ID & Title: **56: A comparative study – Rear-end collision avoidance**
Author Name: Jacques Hirard, SP Technical Research Institute of Sweden; Micha Lesemann, Institut für Kraftfahrzeuge RWTH Aachen University; Andris Aparicio, IDIADA Automotive Technology SA; Henrik Eriksson, SP Technical Research Institute of Sweden; Jan Jacobson, SP Technical Research Institute of Sweden
- Paper ID & Title: **688: Motorway Safety in Europe and Greece: A Comparative Analysis**
Author Name: Alexandros Kokkalis, Assistant Professor, Dept. of Civil Engineering, Democritus University of Thrace; Dimitrios Papaioannou, Dept. of Civil Engineering, Democritus University of Thrace
- Paper ID & Title: **106: Nordic citizens' views on traffic safety**
Author Name: Susanne Gustafsson, Swedish National Road and Transport Research Institute; Nils Petter Gregersen, Swedish National Road and Transport Research Institute
- Paper ID & Title: **113: Territory as Unavoidable Constraints for Automated Speed Camera Programs**
Author Name: Laurent Carnis, Universiti Paris-Est, IFSTTAR, DEST
- Paper ID & Title: **162: Dynamic statistical model selection: application to traffic accident analysis in Spain.**
Author Name: Bahar Dadashova, PhD Fellow, INSIA, Universidad Politecnica de Madrid; Blanca Arenas Ramvrez, INSIA, Universidad Politecnica de Madrid; Josi Manuel Mira McWilliams, Universidad Politecnica de Madrid; Francisco Aparicio Izquierdo, INSIA, Universidad Politecnica de Madrid.
- Paper ID & Title: **171: The potential benefits of naturalistic driving for road safety research: Theoretical and empirical considerations and challenges for the future**
Author Name: Ingrid van Schagen, SWOV Institute for Road Safety Research; Fridulv Sagberg, Institute of Transport



TUESDAY, 24 APRIL - Pillar III

🕒 14:00 - 18:00

📍 N. Skalkotas
Hall Level

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- Paper ID & Title: **224: Comparative Study of Road Traffic Rules in Qatar Compared to Western Countries**
Author Name: Khaled Shaaban, Qatar University
- Paper ID & Title: **241: A survey-based probabilistic statistical approach for characterizing drivers' negative behaviors**
Author Name: Nada B. Al Naser, Research Assistant, RTTSRC, UAE University; Prof. Yaser E. Hawas, Director, RTTSRC, UAE University; Dr. Munjid Maraqa, Department of Civil and Environmental Engineering, UAE University
- Paper ID & Title: **252: Universal Methodology for Iterative User Centered HMI Development and Testing**
Author Name: J. P. Frederik Diederichs, University of Stuttgart IAT; Felix Fried, Cand.-Ing., University of Stuttgart
- Paper ID & Title: **441: Investigating road safety management processes in Europe**
Author Name: Heikki Jähi, French institute of sciences and technology for transport; Nicole Muhlrada, Motor Transport Institute; Ilona Buttler, Motor Transport Institute; Victoria Gitelman, Technion, Israel Institute of Technology; Charlotte Bax, SWOV Institute for Road Safety Research; Emmanuelle Dupont, Belgian Road Safety Institute; Gabriele Giustiniani, Centro di Ricerca per il Trasporto e la Logistica; Klaus Machata, KFV (Kuratorium für Verkehrssicherheit); Heike Martensen, Belgian Road Safety Institute; Eleonora Papadimitriou, National Technical University of Athens; Luca Persia, Centro di Ricerca per il Trasporto e la Logistica
- Paper ID & Title: **452: Living in the shadow of the motorway: Safety and maintenance on the "old" national road network**
Author Name: Fotini Kehagia, Aristotle University of Thessaloniki; Anastasios Mouratidis, Aristotle University of Thessaloniki
- Paper ID & Title: **501: Integrating real-time traffic data in road safety analysis**
Author Name: Zoi Christoforou, Department 'City, Environment, Transportation'; Simon Cohen, Institut National de Recherche sur les Transports et leur Sécurité (INRETS); Matthew G. Karlaftis, National Technical University of Athens
- Paper ID & Title: **511: Needs for evidence-based road safety decision making in Europe**
Author Name: Emmanuelle Dupont, Belgian Road Safety Institute; Nicole Muhlrada, French institute of sciences and technology for transport, development and networks; Ilona Buttler, Motor Transport Institute; Victoria Gitelman, Technion, Israel Institute of Technology; Gabriele Giustiniani, Centro di Ricerca per il Trasporto e la Logistica; Heikki Jähi, Technion, Israel Institute of Technology; Klaus Machata, KFV (Kuratorium für Verkehrssicherheit); Heike Martensen, Belgian Road Safety Institute; Eleonora Papadimitriou, National Technical University of Athens; Luca Persia, Centro di Ricerca per il Trasporto e la Logistica; Rachel Talbot, Loughborough University; Gilles Vallet, French institute of sciences and technology for transport, development and networks; Wim Wijnen, SWOV Institute for Road Safety Research; George Yannis, National Technical University of Athens
- Paper ID & Title: **530: FIMCAR – Frontal Impact and Compatibility Assessment Research: How to test self and partner protection**
Author Name: Heiko Johannsen, TU Berlin; Mervyn Edwards, TRL; Ignacio Lazaro, Applus IDIADA; Thorsten Adolph, BAST; Robert Thomson, VTI; Ton Versmissen, TNO
- Paper ID & Title: **502: Design, implementation and assessment of innovative devices for road safety: an example from the SARI project**
Author Name: Stéphanie Bordel, CETE Ouest-LRB; Alain Somat, LAUREPS-CRPCC; Hervé Barbeau, Erdyn Atlantique, Espace Entreprises Orchis; Peggy Subirats, CETE Normandie-Centre; Marie-Line Gallenne, IFSTTAR



TUESDAY, 24 APRIL - Pillar III

🕒 14:00 - 18:00

📍 N. Skalkotas
Hall Level

- Paper ID & Title: **550: Enabling Next Generation Emergency Call Service**
Author Name: Ashweeni Beeharee, University College London; Guy Fremont, Sanef; Guillermo Grau, Indra; Roberta Campo, Eutelsat; Tamas Lovas, Budapest University of Technology and Economics; Lionel Besnard, SDIS95
- Paper ID & Title: **581: A review of international sources for road safety measures assessment**
Author Name: George Yannis, National Technical University of Athens; Wendy Weijermars, SWOV, Dutch institute for road safety research; Jari Kauppila, ITF/OECD Joint Transport Research Centre
- Paper ID & Title: **640: Challenges and opportunities for the assessment of the effectiveness of road safety measures**
Author Name: Patrick Hasson, US Department of Transportation; Jari Kauppila, ITF/OECD Joint Transport Research Centre; Kai Assing, Bundesanstalt für Strassenwesen (Bast); George Yannis, National Technical University of Athens; Sylvain Lassarre, Institut Français des Sciences et Technologies des Transports
- Paper ID & Title: **709: Efficiency of Traffic Calming Measures**
Author Name: Peter Lipar, Faculty for Civil and geodetic Engineering, Traffic Technical Institute; Jure Kostanjsek, Faculty for Civil and Geodetic Engineering, Traffic Technical Institute
- Paper ID & Title: **628: Recording and evaluation procedure of drivers' distraction. The case of Thessaloniki Ring Road**
Author Name: Missokefalou Eleni, University of Thessaly, Department of Civil Engineering; Eliou Nikolaos, University of Thessaly, Department of Civil Engineering
- Paper ID & Title: **37: European common standardized certification methodology for road safety experts**
Author Name: Carlo Polidori, Italian Association of Road Safety Professionals; Adewole Adesiyun, Forum of European National Highway Research Laboratories; Xavier Cocu, Belgian Road Research Centre (BRRC); Peter Saleh, Austrian Institute of Technology; Kerstin Lemke, Federal Highway Research Institute
- Paper ID & Title: **434: Innovative concepts for smart road restraint systems (RRS) to provide greater safety for vulnerable road users**
Author Name: Juan J. Alba, University of Zaragoza; Mario Maza, University of Zaragoza; Ramon Miralbes, University of Zaragoza; Raquel Martin, University of Zaragoza
- Paper ID & Title: **586: Prevalence and risk of injury in Europe by driving with alcohol, illicit drugs and medicines**
Author Name: Inger Marie Bernhoft, Technical University of Denmark; Tove Hels, Technical University of Denmark; Allan Lyckegaard, Technical University of Denmark; Sjoerd Houwing, SWOV Institute for Road Safety Research; Alain G. Verstraete, Department of Clinical Chemistry
- Paper ID & Title: **428: ALARP (A RAILWAY AUTOMATIC TRACK WARNING SYSTEM BASED ON DISTRIBUTED PERSONAL MOBILE TERMINALS)**
Author Name: Seminatore Antonio Andrea, ANSALDO STS; Ceccarelli Andrea, Università Firenze; Falai Lorenzo, Resiltech; Schultheis Michael, TUD; Malinowsky Boris, FTW; Ghelardoni Luca, ANSALDO STS
- Paper ID & Title: **502: Design, implementation and assessment of innovative devices for road safety: an example from the SARI project**
Author Name: Stéphanie Bordel, CETE Ouest-LRB; Alain Somat, LAUREPS-CRPCC; Hervé Barbeau, Erdyn Atlantique, Espace Entreprises Orchis; Peggy Subirats, CETE Normandie-Centre; Marie-Line Gallenne, IFSTTAR



WEDNESDAY, 25 APRIL - Pillar I

🕒 09:00 - 13:00

📍 N. Skalkotas
Hall Level

- Paper ID & Title: **137: Performance-Based Transportation Management: The Case of U.S. State DOTs**
 Author Name: Douglas Hales, University of Rhode Island; Deborah Rosen University of Rhode Island; Henry Schwarzbach, University of Rhode Island; Anthony Wheeler, University of Rhode Island; Christos Xenophontos, University of Rhode Island
- Paper ID & Title: **487: Pan-European Corridor X Development: Case of Literal Implementation of the European Transport Strategy Itself or of Change of the General Environment in the Region?**
 Author Name: Marios Miltiadou, Aristotle University of Thessaloniki; Christos Taxiltaris, Aristotle University of Thessaloniki; George Mintsis, Aristotle University of Thessaloniki; Socrates Basbas, Aristotle University of Thessaloniki
- Paper ID & Title: **559: The public balance of transport in Hungary 2004-2010**
 Author Name: Istvan Kövesdi, KTI Institute for Transport Sciences Non Profit Ltd; Gabor Alber, KTI Institute for Transport Sciences Non Profit Ltd
- Paper ID & Title: **755: Modeling Uncertainty during Cost Benefit Analysis of transportation projects with the aid of Fuzzy Set Theory**
 Author Name: Alexander Maravas, National Technical University of Athens; John-Paris Pantouvakis, National Technical University of Athens; Sergios Lambropoulos, National Technical University of Athens
- Paper ID & Title: **682: Estimating minimum toll rates in Public Private Partnerships**
 Author Name: Nevena Vajdic, University of Belgrade, Faculty of Civil Engineering; Goran Mladenovic, University of Belgrade, Faculty of Civil Engineering; Cesar Queiroz, University of Belgrade, Faculty of Civil Engineering
- Paper ID & Title: **33: Results of the implementation process evaluation of CIVITAS II funded measures for sustainable urban transport**
 Author Name: Roman Klementsitz, Institute for Transport Studies, University of Natural Resources and Applied Life Sciences (BOKU); Reinhard Hössinger, Institute for Transport Studies, University of Natural Resources and Applied Life Sciences (BOKU); Oliver Roider, Institute for Transport Studies, University of Natural Resources and Applied Life Sciences (BOKU)
- Paper ID & Title: **385: Widening the use of the FOT methodology Development based on experiences from the TeleFOT project**
 Author Name: Stig E.R. Franzén, Chalmers University of Technology; MariAnne Karlsson, Chalmers University of Technology; Andrew P. Morris, Loughborough University; Ruth Welsh, Loughborough University
- Paper ID & Title: **403: Is a Marine and Maritime Common Strategy Possible?**
 Author Name: Lanfranco Benedetti, CESA- Community of European Shipyards' Associations; Willem Laros, CESA- Community of European Shipyards' Associations
- Paper ID & Title: **490: Harmonizing the planning process with the national visions and plans on sustainable transport: the case of Sweden**
 Author Name: Lena Smidfelt Rosqvist, Trivector Traffic; Hanna Wennberg, Trivector Traffic



WEDNESDAY, 25 APRIL - Pillar I

🕒 09:00 - 13:00

📍 N. Skalkotas
Hall Level

- Paper ID & Title: **553: Cases studies in improving interconnectivity between passenger transport modes - the context of the EU Transport policy objectives**
Author Name: Monika Bak, University of Gdansk; Barbara Pawlowsk, University of Gdansk; Przemyslaw Borkowski, University of Gdansk
- Paper ID & Title: **647: Innovations in governance: balancing air quality and road development**
Author Name: Tim Busscher, Rijksuniversiteit Groningen; Taede illema, Rijksuniversiteit Groningen; Jos Arts, Rijkswaterstaat, Dienst Verkeer en Scheepvaart
- Paper ID & Title: **421: Indicator framework for measuring sustainability of transport in the city**
Author Name: Zsuzsanna Toth-Szabo, Lund University, Department of Technology and Society; Andras Varhelyi, Lund University, Department of Technology and Society
- Paper ID & Title: **164: Market impact evaluation – the way to judge the success of completed rail research**
Author Name: Mark Robinson, NewRail, Newcastle University; Luisa Velardi, TRENITALIA; C. Ulianov, NewRail, Newcastle University
- Paper ID & Title: **703: Selection criteria used for the choice of contract type for major highway construction projects**
Author Name: Fani Antoniou, Egnatia Odos S.A. and Civil Engineering Department, Aristotle University of Thessaloniki; Georgios N. Aretoulis, Civil Engineering Department, Aristotle University of Thessaloniki; Dimitrios Konstantinidis, Civil Infrastructure Engineering Department, Alexander Technological Educational Institute of Thessaloniki; Glykeria P. Kalfakakou, Civil Engineering Department, Aristotle University of Thessaloniki
- Paper ID & Title: **614: Development and application of an evaluation framework for urban traffic management and Intelligent Transport Systems**
Author Name: Ioannis Kaparias, City University London; Niv Eden, Technion – Israel Institute of Technology; Antonios Tsakarestos, Technische Universität München; Ayelet Gal-Tzur, Technion, Israel Institute of Technology; Marcus Gerstenberger, Technische Universität München; Suzanne Hoadley, Polis – European Cities and Regions; Patrick Lefebvre, City of Paris; Justin Ledoux, City of Paris; Michael Bell, Imperial College London
- Paper ID & Title: **271: Economic evaluation of urban track systems: integration of Life Cycle Costs and Socio-Economic Assessment**
Author Name: Marjolein de Jong, Hasselt University, Transportation Research Institute (IMOB); Katrien Declerc, Hasselt University, Transportation Research Institute (IMOB)



WEDNESDAY, 25 APRIL - Pillar II

🕒 14:00 - 18:00

📍 N. Skalkotas
Hall Level

- Paper ID & Title: **77: Tram-Train: a system capable of operating on existing infrastructures**
Author Name: Juan José Sanchvs, Vossloh Rail Vehicles, Pol. Ind. del Mediterraneo. C; Mar Rivas, Vossloh Rail Vehicles, Pol. Ind. del Mediterraneo. C; Ricardo Albelda, Vossloh Rail Vehicles, Pol. Ind. del Mediterraneo. C
- Paper ID & Title: **163: A methodology to define the Level of Safety of Public Transport bus stops, based on the concept of Risk**
Author Name: Marco Amadori, SRM Reti e Mobilitù; Tommaso Bonino, SRM Reti e Mobilitù
- Paper ID & Title: **479: Proposed Policies to Support the New Metro System in Qatar**
Author Name: Khaled Shaaban, Qatar University; Rania F. Khalil, Qatar University
- Paper ID & Title: **711: Castellon Hybrid Transport System Demonstration In The CityMobil Project**
Author Name: Adrian Zlocki, Institut für Kraftfahrzeuge, RWTH Aachen University; Antonio Marquis Moreno, GRUPO ETRA; Daniele Stam, Università degli Studi di Roma "La Sapienza"
- Paper ID & Title: **558: Measuring the level of acceptance for sustainable mobility in universities**
Author Name: Ioannis Politis, Dr Transportation Planner; Nikos Gavanis, Dr Transportation Planner; Magda Pitsiava-Latinopoulou, Aristotle University of Thessaloniki; Panagiotis Papaioannou, Aristotle University of Thessaloniki; Socrates Basbas, Aristotle University of Thessaloniki
- Paper ID & Title: **545: Railway Capacity Handbook: A Systematic Approach to Methodologies**
Author Name: Evangelia Kontaxi, University of Rome "La Sapienza"; Stefano Ricci, University of Rome "La Sapienza"
- Paper ID & Title: **444: The EVA-TREN project approach and results**
Author Name: Silvia Maffii, TRT Trasporti e Territorio; Riccardo Parolin, TRT Trasporti e Territorio
- Paper ID & Title: **236: Dynamic traffic assignment based evacuation planning for CBD areas**
Author Name: Georgia Ayfadopoulou, Centre for Research and Technology Hellas (CERTH) – Hellenic Institute of Transport (HIT); Iraklis Stamos, Centre for Research and Technology Hellas (CERTH) – Hellenic Institute of Transport (HIT); Evangelos Mitsakis, Centre for Research and Technology Hellas (CERTH) – Hellenic Institute of Transport (HIT); Josep Maria Salanova Grau, Centre for Research and Technology Hellas (CERTH) – Hellenic Institute of Transport (HIT)
- Paper ID & Title: **356: A Threshold-Based Real-Time Incident Detection System for Urban Traffic Networks**
Author Name: Faisal Ahmed, Department of Civil and Environmental Engineering, College of Engineering, United Arab Emirates (UAE) University; Yaser E. Hawas, Department of Civil and Environmental Engineering, College of Engineering, United Arab Emirates (UAE) University
- Paper ID & Title: **693: Integrating adaptive and traffic responsive algorithms**
Author Name: Christopher M. Day, School of Civil Engineering, Purdue University; Darcy M. Bullock, School of Civil Engineering, Purdue University; Andrew P. Nichols, Rahall Transportation Institute, Marshall University; Thomas M. Brennan, School of Civil Engineering, Purdue University; Chih-Sheng Chou, Rahall Transportation Institute, Marshall University



WEDNESDAY, 25 APRIL - Pillar II

🕒 14:00 - 18:00

📍 N. Skalkotas
Hall Level

- Paper ID & Title: **561: Impacts of improving interconnectivity between local and long-distance transport networks in Europe**
Author Name: Andreu Ulied, MCRIT SL; Oriol Biosca, MCRIT SL; Efrain Larrea, MCRIT SL; Nati Franco, MCRIT SL
- Paper ID & Title: **134: Capacity and LOS for urban arterial road in Indian mixed traffic condition**
Author Name: Chetan R Patel, Civil Engineering Department, SVNIT; Dr. G.J.Joshi, Civil Engineering Department, SVNIT
- Paper ID & Title: **527: Advanced traffic restraint measures in urban areas**
Author Name: Evaggelos Matsoukis, University of Patras
- Paper ID & Title: **355: NorSIKT – Nordic System for Intelligent Classification of Traffic**
Author Name: Torgeir Vaa, Norwegian Public Roads Administration; Per Melin, Swedish Transport Administration; Dennis Andersson, Swedish Transport Administration; Bjarne Bach Nielsen, Danish Ministry of Transport
- Paper ID & Title: **97: PubTrans4All – Public Transportation Accessibility for All**
Author Name: Mag. Barbara Birkenmeyer, Rodlauer Consulting e.U.; Dr. Bernhard Röger, Technical University of Vienna, Research Center for Railway Engineering; Dr. Goran Simic, University of Belgrade, Faculty of Mechanical Engineering; Dennis Behnken, MBB Palfinger GmbH
- Paper ID & Title: **213: Parking Policies for Supporting Sustainable Mobility**
Author Name: Pitsiava-Latinopoulou M., Aristotle University of Thessaloniki; Basbas Socrates, Aristotle University of Thessaloniki, Papoutsis Konstantinos, Aristotle University of Thessaloniki; Sdoukopoulos Eleftherios, Aristotle University of Thessaloniki
- Paper ID & Title: **554: Sustainable Urban Mobility Planning in Central Eastern Europe: case examples from Poland and Croatia**
Author Name: Bernd Decker, Rupprecht Consult GmbH; Helena Hećimović, City of Koprivnica; Marcin Wołek, University of Gdansk
- Paper ID & Title: **612: Evaluation of measures aimed at sustainable urban mobility in European cities – Case study CIVITAS MIMOSA**
Author Name: Katrin Dziekan, Berlin Institute of Technology, Department of Land and Sea Transport, Integrated Transport Planning
- Paper ID & Title: **625: ITS for long distance bus passenger transport**
Author Name: Monica Giannini, PluService
- Paper ID & Title: **526: Accessibility management at municipal level for people with restricted mobility: The case of Thessaloniki**
Author Name: Panagiotis Tsalis, Aristotle University of Thessaloniki; Aristotelis Naniopoulos, Aristotle University of Thessaloniki
- Paper ID & Title: **613: From door to door – an example of how it can work**
Author Name: Chiara Ferrarini, Università di Modena e Reggio Emilia; Roberto Montanari, Università di Modena e Reggio Emilia; Francesco Tesauri, Università di Modena e Reggio Emilia



THEMATIC SESSIONS

POSTER

WEDNESDAY, 25 APRIL - Pillar II

14:00 - 18:00

N. Skalkotas
Hall Level

(continued from previous page)

- Paper ID & Title: **256: Personalizing Mobile Travel Information Services**
Author Name: Neal Lathia, Department of Computer Science, University College London; Licia Capra, Department of Computer Science, University College London; Daniele Magliocchetti, Fondazione Graphitech, Italy; Federico De Vigili, Fondazione Graphitech, Italy; Giuseppe Conti, Fondazione Graphitech, Italy; Raffaele De Amicis, Fondazione Graphitech, Italy; Jianwei Zhang, Technische Universiteit Eindhoven, The Netherlands; Davide Cali, ULA S.r.l., Italy; Vlad Alexa, ULA S.r.l., Italy
- Paper ID & Title: **399: Investigation of Pedestrians' Accident Patterns in Greater Athens Area**
Author Name: Theofilatos Athanasios, National Technical University of Athens; Dimitrios Efthymiou, National Technical University of Athens
- Paper ID & Title: **510: Urban Road Freight Transport Systems: Questions and Answers**
Author Name: Eustace Bouhours, Aristotle University of Thessaloniki; Socrates Basbas, Aristotle University of Thessaloniki
- Paper ID & Title: **71: Comparison of Trade Facilitation at Four International Ports in Thailand**
Author Name: Jittichai Rudjanakanoknad, Department of Civil Engineering, Faculty of Engineering, Chulalongkorn University; Wiracha Suksirivoraboot, Department of Civil Engineering, Faculty of Engineering, Chulalongkorn University
- Paper ID & Title: **531: CREAM "Customer-driven Rail-freight services on a European mega-corridor based on Advanced business and operating Models"**
Author Name: Lars Deiterding, HaCon Ingenieugesellschaft mbH; Niklas Galonske, HaCon Ingenieugesellschaft mbH; Svenja Karcher, HaCon Ingenieugesellschaft mbH
- Paper ID & Title: **121: A web tool for planning environmental friendly freight combined transport operations**
Author Name: Vasileios Zeimpekis, Department of Financial & Management Engineering; Kostis Mamasias, University of the Aegean; Ioannis Minis, University of the Aegean, Department of Financial & Management Engineering
- Paper ID & Title: **364: Sustainable technologies and innovation for green corridors: Survey and Application**
Author Name: Sara Fozza, D'Appolonia S.p.A. ; Valerio Recagno, D'Appolonia S.p.A.
- Paper ID & Title: **754: Hierarchical Interactions between Shippers and Carriers in International Maritime Freight Transportation Networks**
Author Name: Boile Maria, Hellenic Institute of Transport; Lee Hyangsook, Center for Advanced Infrastructure and Transportation, Rutgers University; Theofanis Sotirios, Freight and Maritime Program, Center Center for Advanced Infrastructure and Transportation, Rutgers University
- Paper ID & Title: **542: "Train Monitor"- a new IT system for monitoring freight trains on national and international routes**
Author Name: Niklas Galonske, KombiConsult GmbH; Christoph Bóchner, Kombiverkehr GmbH & Co KG; Uwe Sondermann, Kombiverkehr GmbH & Co KG
- Paper ID & Title: **758: Cooperative Systems for Construction Work Zone Traffic Management**
Author Name: S.N. Razavi, Assistant Professor and Chair in Heavy Construction, Department of Civil Engineering, McMaster University, Canada; A. Olia , Ph.D. Student, Department of Civil Engineering, McMaster University, Canada; P. Izadpanah Postdoc Fellows, Department of Civil Engineering, McMaster University, Canada



WEDNESDAY, 25 APRIL - Pillar II

🕒 14:00 - 18:00

📍 N. Skalkotas
Hall Level

- Paper ID & Title: **393: Investigating freight corridors towards low carbon economy: evidence from the UK**
Author Name: Paulus T. Aditjandra, NewRail – Centre for Railway Research, Rail Freight and Logistics Group; Thomas H. Zunder, NewRail – Centre for Railway Research, Rail Freight and Logistics Group; Dewan M. Z. Islam, NewRail – Centre for Railway Research, Rail Freight and Logistics Group; Eero Vanaale, Drewry Shipping Consultants
- Paper ID & Title: **506: Roadscanner: Feasibility Study and Development of a GNSS-Probe for Creating Digital Maps of High Accuracy and Integrity**
Author Name: Dimitris Vartziotis, NIKI Ltd.; Iraklis Goudas, NIKI Ltd.; Spyros Savvas, NIKI Ltd.; Athanasios Batagiannis, NIKI Ltd.; Florian Dittmann, TWT GmbH; Francesca Zanier, ESA/ESTEC – TEC-ETN
- Paper ID & Title: **199: Can high-speed trains run faster and reduce energy consumption?**
Author Name: Ignacio Gonzalez–Franco, Fundación Espapola de Ferrocarriles (FEF); Alberto Garcia–Alvarez, Fundacion Espapola de Ferrocarriles (FEF)
- Paper ID & Title: **181: Commercialisation of Intelligent Transportation Systems: The Case of Cooperative Systems**
Author Name: Maria Nilsson, Cooperative Systems Group, Viktoriainstitute; Mats Williander, Cooperative Systems Group, Viktoriainstitute; Cristofer Englund, Cooperative Systems Group, Viktoriainstitute
- Paper ID & Title: **551: Developing ITS Services for the Open SafeTRIP Platform**
Author Name: Guillermo Grau, Indra; Thomas Heyn, Fraunhofer–Institut für Integrierte Schaltungen; Attilio Vaccaro, Fraunhofer–Institut für Integrierte Schaltungen; Ashweeni Beeharee, University College London
- Paper ID & Title: **398: Traffic network and the urban environment: an adapted space syntax approach**
Author Name: Maria Giannopoulou, Department of Civil Engineering, Democritus University of Thrace; Yiannis Roukounis, Department of Civil Engineering, Democritus University of Thrace; Vasilis Stefanis, Department of Civil Engineering, Democritus University of Thrace
- Paper ID & Title: **35: Experimental observations of capacity drop phenomena in freeway merges in Minnesota**
Author Name: Nikolas Geroliminis, Department of Civil Engineering, Democritus University of Thrace; Anupam Srivastava, Department of Civil Engineering, University of Minnesota; Panos Michalopoulos, Department of Civil Engineering, University of Minnesota; John Hourdos, Department of Civil Engineering, University of Minnesota



THURSDAY, 26 APRIL - Pillar V

🕒 09:00 - 13:00

🏢 N. Skalkotas
Hall Level

- Paper ID & Title: **476: EURAXLES: “ Minimizing the risk of fatigue failure of railway axles**
Author Name: Max Obenaus, UNIFE; Lea Paties, UNIFE
- Paper ID & Title: **64: Application of a bivariate deterioration model for a pavement management optimization**
Author Name: Mariem Zouch, LUNAM Université Icole des Mines de Nantes; Thomas Yeung, LUNAM Universiti, Icole des Mines de Nantes; Bruno Castanier, LUNAM Universiti, Icole des Mines de Nantes; Tristan Lorino, LUNAM Universiti, Icole des Mines de Nantes
- Paper ID & Title: **24: Modeling the road degradation process: non-linear mixed effects models for correlation and heteroscedasticity of pavement longitudinal data**
Author Name: Tristan Lorino, LUNAM Universiti, Icole des Mines de Nantes ; Philippe Lepert, LUNAM Universiti, Icole des Mines de Nantes ; Jean-Marie Marion, IMA UCO; Hussein Khraibania, IMA UCO
- Paper ID & Title: **420: Experiences on low temperature (LT) asphalts in Hungarian road building**
Author Name: Zoltan Puchard, Colas Hungary Co.; Agnes Gorgeny, Colas Hungary Co.; Gonda Jozsef, Colas Hungary Co.
- Paper ID & Title: **571: Model for the prediction of rutting in roads, a NordFoU result**
Author Name: Anders Huvstig, M.Sc. Swedish Transport Administration
- Paper ID & Title: **686: Semicircular shaped cracks on asphalt pavements**
Author Name: Dejan Hribar, Building and Civil Engineering Institute ZRMK d.o.o.
- Paper ID & Title: **523: Viscoelastic Modeling of Road Deflection using Finite Element Method and Laplace transform**
Author Name: Louis Pedersen, Greenwood Engineering & Department of Mathematics, Technical University of Denmark
- Paper ID & Title: **587: Managing Low Volume Roads in Austria**
Author Name: Wolfgang Haslehner, Amt der Burgenländischen Landesregierung, Hauptreferat Góterwege
- Paper ID & Title: **214: Use of electric arc furnace slag in thin skid-resistant surfacing**
Author Name: Ioannis Liapis, Civil Engineer, BEng, MSc, DIC, PhD Candidate; Spiraggelos Likoydis, Director of P.Y.T.H. Laboratory, EGNATIA ODOS SA
- Paper ID & Title: **663: Mechanical Behavior of Materials used for Paving in the Southwest of the Brazilian Amazon**
Author Name: Antnio C. R. Guimaryes, Fortification and Construction Section, IME; Graziella P. Pires dos Santos, Fortification and Construction Section, IME ; Laura M. G. Motta, Fortification and Construction Section, IME
- Paper ID & Title: **716: Transition Zone between Ballastless and Ballasted Track: Influence of changing stiffness on acting forces**
Author Name: Giannakos Konstantinos, Civil Engineer PhD; Tsoukantas Spyridon, Faculty of Civil Engineering, NTUA
- Paper ID & Title: **292: Assessment of Fatigue Cracks in Rails**
Author Name: George Kotsikos, School of Mechanical & Systems Engineering, Stephenson Building, Newcastle University; Marzio Grasso, University Federico II
- Paper ID & Title: **660: The production of rubber panels and their use as a sustainable alternative to pave level crossings**
Author Name: Adriano M. Freitas, MRS Logistics, Brazil; Renata C. Carmo, MRS Logistics, Brazil; Leonardo S. Soares, MRS Logistics, Brazil; Vania B. G. Campos, IME – Brazilian Army Military Intitute; Marcos M. Borges, UFJF – Federal University of Juiz de Fora

**THURSDAY, 26 APRIL - Pillar V**

🕒 09:00 - 13:00

📍 N. Skalkotas
Hall Level

- Paper ID & Title: **80: Use of treated soils for sustainable rail infrastructures**
Author Name: Preteseille Mathieu, Institut Frannais des Sciences et des Technologies des Transports; Horny Pierre, Institut Frannais des Sciences et des Technologies des Transports; Chupin Olivier, Institut Frannais des Sciences et des Technologies des Transports; Lenoir Thomas, Riseau Ferri de France
- Paper ID & Title: **109: EURO Family: Optimization of the rail transport by modern diesel locomotives**
Author Name: Mar Rivas, Vossloh Rail Vehicles, Pol. Ind. del Mediterraneo. C; Antonio Garcva Ricos, Vossloh Rail Vehicles, Pol. Ind. del Mediterraneo. C; Ricardo Albelda, Vossloh Rail Vehicles, Pol. Ind. del Mediterraneo. C
- Paper ID & Title: **206: Scheduling material transportation for highway repaving project**
Author Name: Zbigniew Tokarski, University of Technology and Life Sciences in Bydgoszcz; Anna Sobotka, AGH University of Science and Technology; Agata Czarnigowska, Lublin University of Technology
- Paper ID & Title: **205: Optimization of aggregate supplies for road projects**
Author Name: Anna Sobotka, AGH University of Science and Technology; Piotr Jaskowski, Lublin University of Technology; Agata Czarnigowska, Lublin University of Technology
- Paper ID & Title: **145: Abating annoyance caused by infrastructure works**
Author Name: Hinko van Geelen, BRRC
- Paper ID & Title: **101: New Lightweight Structures for Advanced Automotive Vehicles – Safe and Modular**
Author Name: Gundolf Kopp, German Aerospace Center; Elmar Beeh, German Aerospace Center; Roland Schöll, German Aerospace Center; Alexander Kobilke, German Aerospace Center; Philipp Straiburger, German Aerospace Center; Michael Kriescher, German Aerospace Center
- Paper ID & Title: **210: GRAIL-2: Enhanced Odometry based on GNSS**
Author Name: Emilio Gonzalez, Ineco. Avenida del Partenon; Celso Prados, Ineco. Avenida del Partenon; Virginia Anton, Ineco. Avenida del Partenon; Boris Kennes, European GNSS Agency
- Paper ID & Title: **668: Development of Advanced Conventional and Hybrid Powertrains by Mechanistic System Level Simulations**
Author Name: Tomaž Katra nik, University of Ljubljana, Faculty of Mechanical Engineering; Johann C. Wurzenberger, AVL List GmbH
- Paper ID & Title: **93: Clean European Rail-Diesel: Tackling the challenge of reducing diesel emissions**
Author Name: Judit Sandor, CleanER-D Project Coordinator, UNIFE – The European Rail Industry; Roberto Palacin, Newcastle University Centre for Railway Research–NewRail
- Paper ID & Title: **623: Ecological urban vehicle of a public use, offering a minimal parking place, supplementary to usual public transport means**
Author Name: Ioannis Tzouvadakis, National Tech. Univ. of Athens; Vassilios Kefalas, National Tech. Univ. of Athens
- Paper ID & Title: **466: Calculation of a fixed – tank vehicle optimum dynamic performance**
Author Name: Dimitris V. Koulocheris, Vehicles Laboratory, School of Mechanical Engineering, National Technical University of Athens; Vasileios K. Dertimanis, Vehicles Laboratory, School of Mechanical Engineering, National Technical University of Athens
- Paper ID & Title: **757: Multi-Functional Reactor for Advanced Diesel Engine Emission Control**
Author Name: Dimitrios Zarvalis, Aerosol & Particle Technology Laboratory, CERTH/CPERI; Souzana Lorentzou, Aerosol & Particle Technology Laboratory, CERTH/CPERI; Athanasios G. Konstandopoulos, Aerosol & Particle Technology Laborator & Department of Chemical Engineering, Aristotle University



SPECIAL SESSIONS

Monday 23 April 2012

SPECIAL SESSION No 1



Conference I



16:15 - 17:30

SPS1: New perspectives in transport research in Turkey – Rail Sector

Organizer: Turkish State Railways General Directorate (TCDD)**Description of the session:**

Rail transport is of vital importance in providing sustainable transport, the top priority in the European Union's common transport policy. In line with this policy, the rail sector should re-define and upgrade its role in the European transport system by improving its efficiency and competitiveness, particularly in freight transport. To build a safe and efficient railway system requires research and innovation

by harmonised and integrated approaches on a European level and beyond. This special session aims to demonstrate the recent policy, research and development projects of Turkey to support rail transport and draw perspectives to increase cooperation in research and development focused on tackling a range of challenges faced by rail and intermodal transport stakeholders in the region.

Moderator: Suat Hayri AKA, Ministry of Transport, Maritime Affairs and Communications, Deputy Undersecretary**Speakers:**

- **Isa Apaydin**, TCDD, Turkish State Railways, Deputy Director General
- **Dr. Hulya Zeybek**, INTADER, Intermodal Transportation and Logistics Research Association
- **Güven Kandemir**, DATEM, TCDD Railway Research & Technology Center
- **Ulker Yetgin**, INTADER, Intermodal Transportation and Logistics Research Association

Tuesday 24 April 2012

SPECIAL SESSION No 2

SPS2: Railway Safety & Security



Alexandra Trianti Hall



13:45 - 15:00

Organizer: Dennis Schut, UIC – International Association of Railways**Description of the session:**

Safety and security in rail transport are very important matter. Where rail is probably the safest way of transport, every incident is a reason for concern and the sector is always looking for further improvements. Some of the safety issues are multi-modal, such as for instance level-crossing accidents and trespassing incidents. During this special session the focus will be on the presentation and

discussion of the EU funded FP7 project RESTRAIL on the prevention of suicide occurrences on rail, prevention of trespassing and level-crossing accidents. Global activities in the area of level-crossing safety will be presented. There will also be a presentation on the EU funded FP project PROTECTRAIL dealing with the issue of security in rail transport.

Moderator: Mr. Dennis Schut, UIC**Speakers:**

- **Mr. Jerzy Wisniewski**, UIC
- **Mr. Gerhardt**, UIC
- **Mrs. Fonverne**, UIC and other invited experts



Tuesday 24 April 2012

SPECIAL SESSIONS

SPECIAL SESSION No 3



Alexandra Trianti Hall



16:45 - 18:00

SPS3: Debate between the most important Greek Road concessionaires

Organizer: Ministry of Infrastructure Transport and Networks & Hellenic Institute of Transportation Engineers

Description of the session:

The financial instability of the last years threatens the entire system of the PPP solution which appeared as an attractive method for building major transport infrastructure in Greece and in other countries in Europe and elsewhere. The partnerships for the development of road infrastructure in Europe was largely based on private sector investment in the form of equity invested in the projects by “sponsors” who also arranged the injection of loans through Financial Institutions. The repayment of the loans and the equity, together with interest and return was largely based on “Project Revenue” obtained from road use charging in the form of tolls. This approach appeared appealing to all involved (politicians, contractors, financiers and the public) as being a fair way to provide financing and as following the “user pays” principle. Today, financial Institutions are having difficulties to continue providing the much more needed financing, since public funds become more and more

limited. At the same time, real project revenues generated from tolls are not meeting the initial expectations as traffic growth shrinks more and more. And both partners (private and public) realize that they have to “go out of the box” to find solutions and to remove the stone blocks which are impeding the development of the Projects.

Experts in the field of PPP’s will present real cases of projects from various European countries which were faced with difficulties and will underline and present methods and actions taken in order to provide the stability needed to enable the survival of existing Concessions, or to continue the development of Projects already underway. High Level Greek Government and European Representatives will present the plans of the Greek Administration and the European Commission for supporting the Concession Schemes for the development of the National Highway Network.

Moderator: Ioannis Oikonomidis, General Secretary of Public Works, Ministry of Infrastructure Transport and Networks

Speakers: José Manuel Vassallo, Associate Professor, Transportation Department, Universidad Politcnica de Madrid





SPECIAL SESSION No 4



Nikos Skalkotas Hall



18:15 - 19:30

SPS4: The European Bus of the Future

Organizer: UITP, International Association of Public Transport, Bruxelles, Belgium

Description of the session:

EBSF, The European Bus System of the Future (www.ebsf.eu) is the first project co-funded by the EU about urban bus systems. EBSF aims at offering high quality bus services to passengers and at radically improving the image of the bus in European cities. The innovative solutions created and tested during four years (2008–2012) through demonstrators, prototypes and Use Cases (Madrid, Budapest, Rome, Gothenburg, Bremerhaven, Brunoy (Paris), Rouen) cover the full bus system: the vehicle, the infrastructure and the operation. The TRA conference is the occasion to present a selection of some

of the most innovative EBSF research developments in terms of accessibility, modularity, intelligent transport solutions (a common IT architecture for buses) and energy management strategies.

EBSF is an initiative of the European Commission under the 7th Framework Programme for Research and Technological Developments, it is one of the largest surface transport project of the EU with a budget of 27 million Euros (16 million co-funded), and a consortium of 48 partners in eleven countries. EBSF is coordinated by UITP.

Moderator: Umberto Guida, Director, European Bus System of the Future project – UITP, International Association of Public Transport (to be confirmed)

Speakers:

- **MariAnne Karlsson**, Head of Division Design & Human Factors, Chalmers University of Technology
- **Stefanie Boege**, Strategic Development Gangway Systems Buses Hubner GmbH
- **Dr Ing Thoralf Knote**, Fraunhofer Institute for Transportation and Infrastructure Systems
- **Jean-Laurent Franchineau**, Transport Research Director, Veolia Environnement Recherche & Innovation SNC

SPECIAL SESSION No 5



MC 2



18:15 - 19:30

SPS5: Green corridors in Europe

Organizer: Laboratory for Maritime Transport, National Technical University of Athens, Greece

Description of the session:

Green corridors are an important concept in European freight transport logistics and of EU transport policy in general. They are characterised by a concentration of freight traffic between major hubs and by relatively long distances of transport. Green Corridors should in all ways be environmentally friendly, safe and efficient.

Green technologies and a smart utilisation of ICT, where available, can be used improve related Key Performance Indicators (KPIs).

The purpose of this invited session will be to discuss and debate important issues as regards the concept of green corridors in Europe and outline prospects for the future.

Moderator: Prof. Harilaos N. Psaraftis, National Technical University of Athens, Greece, Project Manager, SuperGreen project.

Speakers:

- **Fleur Breuillin**, European Commission, DG-MOVE, SuperGreen Project Officer
- **Franco Castagnetti**, President, NewOpera Aisbl
- **Herman de Meester**, European Community Shipowner's Associations.
- **Anders Johnson**, Scania, Sweden
- **Agneta Wargsjö**, Deputy Director Strategic Development, Trafikverket



Tuesday 24 April 2012

SPECIAL SESSIONS

SPECIAL SESSION No 6



MC 3



18:15 - 19:30

SPS6: Sustainable Mobility in Action with CIVITAS: Innovative mobility solutions for sustainable urban transport in Europe

Organizer: Ivo Cré, Polis, on behalf of the CIVITAS VANGUARD consortium

Description of the session:

The CIVITAS Initiative (“City-Vitality-Sustainability”, or “Cleaner and Better Transport in Cities”) was launched in 2002. Its fundamental aim is to support cities to introduce ambitious transport measures and policies towards sustainable urban mobility. The goal of CIVITAS is to achieve a significant shift in the modal split towards sustainable transport, an objective reached through encouraging both innovative technology and policy-based strategies.

The CIVITAS initiative is part of the 6th and 7th Framework Programme for Research and Development. A substantial share of its activities includes the evaluation of local activities and the analysis of aggregated evaluation results at a cross-measure, cross-site and cross-project level. The evaluation process within the CIVITAS project is managed by evaluation managers in the CIVITAS demonstrator cities and at project level. Evaluation processes have been supported by a series of Specific Support Actions, all generating valuable information, results and recommendations.

The nature of the evaluation within the CIVITAS programme has changed over the different phases of the initiative,

and so have the methodologies. The session will provide the participants with first hand information about how and why this evaluation has taken place. The session will also highlight first information from the CIVITAS take-up project CATALIST about the long term impact evaluation of CIVITAS measures. will present real cases of projects which were faced with difficulties and will underline and present methods and actions taken in order to provide the stability needed to enable the survival of existing Concessions, or to continue the development of Projects already underway. High Level Greek Government and European Representatives will present the plans of the Greek Administration and the European Commission for supporting the Concession Schemes for the development of the National Highway Network.

Join this Session and be prepared to participate and to observe a real debate among experts possessing the experience and the know-how of providing solutions for putting people back to work and to generate hope for the future of the industry and the country.

Moderator: Ivo Cre Polis, on behalf of the CIVITAS VANGUARD consortium

Speakers:

- **Ivo Cre**, CIVITAS VANGUARD, Polis
- **Mike MacDonald**, CIVITAS POINTER, TRG
- **Bernd Decker**, CIVITAS CATALIST, Rupprecht Consult
- **Katrin Dziekan**, CIVITAS MIMOSA, TUB



SPECIAL SESSION No 7

SPS7: Cost-effective improvement of rail transport infrastructure



MC 3.2



18:15 - 19:30

Organizer: Dr. Ken Gavin, University College Dublin

Description of the session:

Two projects, MAINLINE (focussing principally on metallic bridges and switches and crossings) and SMART Rail (focussing principally on the application of probabilistic analyses tools to civil engineering infrastructure including earthworks, tracks and structures), successfully submitted in response to this call commenced work in autumn 2011. These projects intend to work closely together to maximise their outputs. As part of this agreement a joint dissemination event will held at the TRA2012 conference. Presentations during the special session will be made

by a small number of key individuals from each project, who will describe the background to each proposal, where the projects' aims agree and differ, the planned methods of co-operation between both projects and the expected final results. In addition, the results of the initial data gathering will be presented, with the intention of stimulating discussion amongst TRA participants about the work plans and details of any additional data that should be considered.

Moderator: Prof. Wolfgang Steinicke, EURNEX

Speakers:

- **Dr. Björn** N.P. Paulsson, UIC
- **Dr. Brian Bell**, Network Rail
- **Dr. Ken Gavin**, University College Dublin
- **Professor Eugene O'Brien**, RODIS.

SPECIAL SESSION No 8

SPS8: Greener Merchant Shipping: The Pose²idon project



MC 3.3



18:15 - 19:30

Organizer: Timothy K Cannon, BMT Defence Services Limited

Description of the session:

Pose²idon is aiming to enable electric propulsion to a larger range of vessels by reducing the size of the propulsion plant and provide the added protection requirements necessary for the higher power levels and reduced emissions in port by providing a port shore supply system. The presentations show: HTS Machines and Distribution for Ship Propulsion Technology; developing small generators and motors that utilise high temperature superconductivity and HTS

distribution of the power required.

Shore Supply; developing novel integrated shore supply system on board ship that easily integrate with external shore supply

Novel Protection System; developing a new approach to arc flash protection that decreases the risk of major damage to ship systems and equipment.

Moderator: Professor Christopher G Hodge, BSc MSc CEng FIMarEST FRSA FREng BMT Defence Services Limited

Speakers:

- **Karl-Christian Ehrke**, SAM Electronics GmbH
- **Dr Heinz Pursch**, Eaton Industries GmbH
- **Joseph Eugene**, GE Energy Power Conversion
- **Dr Erik Marzahn**, NEXANS Deutschland
- **Dr Christian-Eric Bruzek**, NEXANS France



Tuesday 24 April 2012

SPECIAL SESSIONS

SPECIAL SESSION No 9

SPS9: The largest study of driving behavior ever conducted: SHRP 2 & NDS



MC 3.4



18:15 - 19:30

Organizer: Omar Smadi, Center for Transportation Research and Education, Iowa State University

Description of the session:

Safety is paramount to all transportation agencies. In this study, volunteer drivers in six U.S. states are pioneering new territory as they participate in the largest study of driving behavior ever conducted – the U.S. National Academy of Sciences' SHRP 2 Naturalistic Driving Study (NDS). The central goal of the SHRP 2 Safety Research Plan is to address the role of driver performance and behavior in traffic safety. This includes developing an understanding of how the driver interacts with and adapts to the vehicle,

traffic environment, roadway characteristics, traffic control devices and the environment. The NDS study started in the Fall of 2010 with the instrumentation of participants' own vehicles. A total of around 2,000 instrumented vehicles will be on the road for a 2-year period. The session will discuss the SHRP 2 safety research area, the roadway information database and its linking to the naturalistic driving study, and driver distraction and inattention.

Moderator: Omar Smadi, Center for Transportation Research and Education/Iowa State University, Research Scientist

Speakers:

- **Charles Fay** SHRP 2, Transportation Research Board, The National Academies Senior Program Officer
- **Omar Smadi** Center for Transportation Research and Education/Iowa State University, Research Scientist
- **Trent Victor** Manager-Behavior in Accident Causation Competence Area SAFER, Vehicle and Traffic Safety Center at Chalmers and Volvo Technology

SPECIAL SESSION No 10

SPS10: Measuring Carbon Footprint of Freight Transport Chains



MC 3.5



18:15 - 19:30

Organizer: Dr Alan Lewis, Transport & Travel Research Ltd

Description of the session:

The European Union (EU) has stated that global temperatures should not exceed pre-industrial levels by more than 2°C in order to keep impacts of climate change at a manageable level. This will require a concerted action from many sectors, including freight transport. Several national, European and global initiatives exist for carbon footprinting of freight transport chains. However, problems remain in terms of comparability, transparency and accuracy of these carbon footprint calculations and they

are often not mutually compatible, dealing with different transport modes in different ways. This session will consist of four short presentations discussing key issues relating to carbon footprinting of freight transport (current initiatives, user needs, methodologies and problems), followed by an open discussion. The aim is to present current progress and next steps towards a unified approach to carbon footprinting of supply chains developed as part of the COFRET project.

Moderator: Dr Alan Lewis, Transport & Travel Research Ltd/BMT Defence Services Limited

Speakers:

- **Dr Verena Ehrler**, Institute of Transport Research of the German Aerospace Center (DLR)
- **Kari Makela**, VTT Technical Research Centre of Finland
- **Björn Hannappel**, DHL



SPECIAL SESSION No 11

SPS11: Automated driving



Petrou Kokkali



18:15 - 19:30

Organizer: Jean Marc Blosseville, (IFSTTAR) (RAPL, VeDeCoM)

Description of the session:

Automation is becoming rapidly a focus subject for the automotive industry. A significant number of Car and truck manufacturers along with 1st rank suppliers (GM, VW, Fiat, Toyota, Volvo trucks, Daimler, Renault, Continental, Valeo, Siemens, Bosh...) announce their interest in the development of fully or partially automated vehicles. Involving telecom connectivity or being fully autonomous, involving driver interactions or not, focused on CHG emissions, safety and comfort or public transportation, several forms are explored and tested with universities and research centers.

The 90's have provided famous pioneer projects (e.g. AHS in USA or Prometheus in Europe). During the first 2000's decade, the automation was apparently inactive and not politically correct, research interest for the subject was redirected toward driver assistance and low speed automation (e.g. parking or cybercars). The second decade

appears to be different (possibly pushed by Google's interest and activity). As a matter of fact, automation is, now, on the front of the innovation scene.

What is changed compared to the 90's? Do the unsolved issues remain the same as some researchers declare? The TRA2012 special session dedicated to automation will try to discuss the subject as a research area. What research areas still open? What topics remain valid for academics? Or should the subject being considered as "competitively relevant" and uniquely reserved to automotive sector (possibly linked with academic partners in private contracts). Some key experts who have led important projects in the field will describe objectives and results obtained through their projects, will express their opinion on the relevant future research topics related to automation and will be keen to enter in a dialog with the audience.

Moderator: Jean Marc Blosseville, IFSTTAR, RAPL, VeDeCoM

Speakers:

- **Michel Parent**, INRIA, CITYMOBIL project
- **Reiner Höger**, Continental, HAVE IT project
- **Carl.Bergenheim**, (SP) (SARTRE project)

- **Sébastien Glaser**, IFSTTAR, Have It, eFutur, ABV
- **Richard Bishop**, MinsSpring, US projects

SPECIAL SESSION No 12

**SPS12: ICT for sustainable logistics:
best practices and roadmap to 2020**



Conference I



18:15 - 19:30

Organizer: Margherita Forcolin, Insiel spa

Description of the session:

Logistics for Life (L4Life) is a Coordination Action (CA) funded by the EU's Seventh Framework Programme Theme 3, ICT for Safety and Energy Efficiency in Mobility. This CA will brings together leading logistics companies, technology providers and research organizations working on Innovative ICT solutions to ensure the long-term sustainability of the

logistics industry by increasing its operational efficiency. L4Life will drives European ICT for Transport research in the direction of making logistics operations more efficient, and thus more environmentally friendly, financially and socially sustainable on the long term.

Moderator: Paolo Paganelli, Insiel spa

Speakers:

- **Hans Westerheim**, Sintef
- **Paolo Paganelli**, Insiel and Jannicke Baalsrud Hauge, BIBA

- **Margherita Forcolin**, Insiel
- **Georgia Ayfantopoulou**, CERTH/ HIT



Wednesday 25 April 2012

SPECIAL SESSIONS

SPECIAL SESSION No 13

SPS13: The way forward for European Transport Research (Horizon 2020)



Alexandra Trianti Hall



15:30 - 16:45

Organizer: Ludger Rogge, European Commission, DG Research and Innovation

Description of the session:

The next Framework Programme for Research and Innovation (Horizon 2020) will play a key role to accelerate the development and deployment of new technologies and innovative solutions for vehicles, infrastructures and transport management and will therefore help to achieve a cleaner and more efficient transport system in the European Union.

Transport research and innovation in Horizon 2020 will place emphasis on priority areas that match European policy objectives (as formulated for example in the Europe

2020 strategy for smart, sustainable and inclusive growth or in the White Paper on Transport); where a critical mass of effort is necessary; where Europe-wide, interoperable transport solutions need to be pursued; or where pooling efforts trans-nationally can reduce research investment risks, pioneer common standards and shorten time-to-market of research results.

The aim of this session is to present the main features of Horizon 2020, the priority areas in transport research and innovation as well as the proposed new rules for participation.

Moderator: Ludger Rogge, European Commission, DG Research and Innovation

Speakers:

- **Alessandro Damiani**, European Commission, DG Research & Innovation, Transport Research – Horizontal aspects, Head of Unit
- **Liam Breslin**, European Commission, DG Research & Innovation, Surface Transport, Head of Unit
- **Marcel Rommerts**, European Commission, DG Mobility and Transport (MOVE), Research and Innovative Transport Systems
- **Johan Blondelle**, European Commission, DG Research & Innovation, Surface Transport

SPECIAL SESSION No 14

SPS14: Gender Issues in Transportation - Bridging the Gap



Petrou Kokkali



16:45 18:00

Organizer: Asa Vagland, VINNOVA, National Expert EU FP7 Programme Committee Transport (incl. Aeronautics), Transport & Environment Division, Stockholm, Sweden

Description of the session:

Bridging the Gap on Gender Issues in Transport means developing a transport system serving the specific needs and particularities in travel behaviour and patterns of its users, male and female; responsive to their particular value and assessment systems leading to the optimal use of resources; introducing innovation in support of competitiveness, complementarity and equality in mobility and accessibility. Bridging the Gap means setting targets,

assessing the current status and identifying the means by which to achieve goals. Gender Issues in Transport means research and monitoring of transport behaviour and travel choices, the impact of exogenous factors, the importance of gender equality in the decision hierarchy of the transport sector and its impact on sustainable development. This Session brings these issues to the fore and sets the respective TRA targets.

Invited Moderator: Prof. Sandra Rosenbloom, Chair of the TRB Executive Committee, Former leader and founder (1978) of the Women's issues in Transportation Committee of the TRB

Invited Speakers:

The panel of distinguished speakers shares international experience:

- **Ms. Maria Cristina Marolda**, European Commission, DG MOVE, Research and Innovative Transport Systems unit and former experience in Road Safety shares the view of the European Commission.
- **Prof. Barbara Lenz** heads research at DLR focusing on economy, society and future mobility patterns.
- **Prof. Amalia Polydoropoulou**, University of the Aegean, on gender travel choices and travel behaviour especially with respect to ICT applications
- **Dr. Jimmy Armoogum**, Ifsttar, on women and men's mobility patterns: the results of the last French National Households Travel Survey.
- **Ms. Cicile Coquelet**, Ifsttar, on key figures on professionals and on key findings of previous TRB conferences on Women's Issues On Transportation
- **Ms. Asa Vagland**, VINNOVA, on gender equality subsidiary objective in Swedish transport policy



SPECIAL SESSION No 15

SPS15: Development of the European Road Safety Observatory –The DaCoTA project



Nikos Skalkotas Hall



18:15 - 19:30

Organizer: Professor Pete Thomas, TSRC, Loughborough University, UK

Description of the session:

Improving the safety of transport relies on accurate and detailed information about crashes and their causes and every new safety technology has accident data at the base and requires data to evaluate the long-term impact. The European Road Safety Observatory has been developed as the central location where data and knowledge on road and vehicle safety can be found and the EU funded DaCoTA project is adding to the data

that is directly available. This session will provide a great opportunity to see the most recent advances that have taken place across Europe and the future development of the European Road Safety Observatory. Delegates will be alerted to the safety resources that are publically available and will have the opportunity to explore how their safety data needs are being handled within the project.

Moderator: Professor Pete Thomas, TSRC, Loughborough University, UK

Speakers:

- **Julian Hill**, TSRC, Loughborough University, UK
- **Dr Nicole Muhlrad**, IFSTTAR, France
- **Dr Heike Martensen**, Dr Emmanuelle Dupont, IBSR, Belgium
- **Professor George Yannis**, NTUA, Greece
- **Petros Evgenikos**, NTUA, Greece
- **Thierry Hermitte**, LAB, France
- **Niels Bos**, SWOV, Netherlands

SPECIAL SESSION No 16

SPS16: iMobility Forum Research & Innovation Recommendations 2011- 2020



MC 2



18:15 - 19:30

Organizers: Coda Alessandro, EUCAR, **Jean-Pierre Médevielle**, IFSTTAR

Description of the session:

The special session is aimed at the iMobility Forum Research and Innovation activities including its Strategic Research Agendas and the recommendations for the

end of current FP7 and CIP (2011-2013) as well as the next HORIZON 2020 common strategic framework for research and innovation (2014-2020).

Moderators:

Coda Alessandro, EUCAR
Jean-Pierre Médevielle, IFSTTAR

Speakers:

- **Alessandro Coda**, EUCAR
- **Lina Konstantinopoulou**, ERTICO
- **Jean-Pierre Médevielle**, IFSTTAR
- **Wim Verhowe**, CLEPA
- **Risto Kulmala**, Finnish Transport Agency
- **Juhani Jääskeläinen**, European Commission, DG-INFOS



Wednesday 25 April 2012

SPECIAL SESSIONS

SPECIAL SESSION No 17

SPS17: Transport, NMP and ICT NCP Networks join forces aiming towards an improved participation of European organizations in the FP7



MC 3



18:15 - 19:30

Organizer: Bruyere Mathilde, ERT

This session focuses on the wide palette of services National Contact Points (NCP) for the Framework Programme provide to researchers across Europe, including support in the building of proposals, identification of relevant programmes and topics, and the search for partners. The speakers – NCPs for the areas Transport, ICT and NMP – will present keys to success in the Framework Programme. This session will also explain how researchers in Europe can profit from transnational cooperation among NCPs – which

enjoys dedicated support from the European Commission. Representatives from three networks funded by the EC will show how they work together in areas of common interest – ultimately making a significant contribution to the development of the European Research Area (ERA). Finally, the session will explore ideas on the role and place of NCPs in the next Community programme for research and innovation: HORIZON 2020.

Moderator: Ioana Adamescu, European Commission

Speakers:

- **David Doerr**, TUV, Transport NCP for Germany, ETNA project coordinator
- **Mathilde Bruyere**, ERT, Transport NCP for France
- **Mohsine Chefki**, DLR, ICT NCP for Germany, Ideal-ist project coordinator
- **Anastasia Constantinou**, PRAXI/HELP-FORWARD, NMP NCP for Greece, NMP TeAm project coordinator

SPECIAL SESSION No 18

SPS18: The path to the European Road Transport Electrification – The Contribution of CAPIRE



MC 3.2



18:15 - 19:30

Organizer: Emma Briec, Coordination Action CAPIRE – Renault

Description of the session:

The Coordination Action CAPIRE intends to support the realization of the European Green Cars Initiative PPP (Public Private Partnership). It focuses on the definition of the potential flagships projects, which could foster the competitiveness of the European Automotive Industry in the domain of Transport Electrification. It also enhances the development of technologies and services to reduce

the European CO2 footprint.

CAPIRE started on December 2010. This session will allow to present the results of the first year. Emphasis will be made on the update of the EGCI Electrification Roadmap followed by an overview of the public Structures and methodology for Automotive RTD funding in Europe and the hypercube of the Green Cars PPP

Moderator: Jesus Monclus, CDTI (Spain)

Speakers:

- **Frederic Sgarbi**, European Commission
- **Emma Briec**, Renault
- **Carolien Mazal**, Bosch
- **Alexander Holleis**, AVL
- **Gereon Meyer**, VDI/VDE-IT
- **David Storer**, CRF



SPECIAL SESSION No 19

SPS19: Strategic Research for Innovative Marine Propulsion Concepts: The STREAMLINE project



MC 3.3



18:15 - 19:30

Organizer: Oliver Lane, Rolls-Royce Marine

Description of the session:

STREAMLINE is a €10m collaborative programme that is systematically investigating ship propulsion systems, with the aim to achieve a step change in improvement in propulsive efficiency (15-30%). The programme has already made significant advances in CFD methods and is now beginning to apply these methods to both State-of-the-Art propulsion systems and brand new, radical concepts.

The session will include an overview of the new CFD techniques that have been developed and how these apply

to modelling detailed propeller flows and whole ship flows in a single simulation. It will then move on to describe in more detail the other concepts that are being investigated, including Large Area Propellers, Biomechanical Thrusters for inland waterways and contra-rotating podded propulsors. Each area will be presented by an expert from the topic and there will be a Q&A session at the end.

www.streamline-project.eu

Moderator: Oliver Lane, Rolls-Royce Marine

Speakers:

- **Francesco Salvatore**, PhD INSEAN (CNR)
- **Torbjörn Lindquist**, PhD Chief Technologist (Streamline), Rolls-Royce Marine
- **Björn Allenström**, Vice President, SSPA
- **Joop Elias**, Walvisstaart BV





Wednesday 25 April 2012

SPECIAL SESSIONS

SPECIAL SESSION No 20

SPS20: The Talent Challenge in Electro Mobility



MC 3.4



18:15 - 19:30

Organizer: Mia Björkil, Chalmers University of Technology, e-gomotion coordinator, Sweden**Description of the session:**

The shifting into an electric road transport paradigm will require new dimensions to the traditional skills and capabilities of road transport engineers and technicians. The transition requires not only new approaches to vehicle manufacture and development, but also to road transport education. To be able to actually realize the transition into electric and hybrid vehicles, there are a number of barriers that need to be addressed, one being the talent challenge in electro mobility. The session will mainly focus on "Innovation in transport education and research" in the field of electro mobility for road transport and will be related to the following topics:

- Electro mobility for road transport (Pillar IV).
- Electric vehicles; Infrastructure for electrified transport (Pillar V). The aim of this session is to identify specific key-success factors for the realization of electro mobility:
- The need of academy and industry common agenda and strategies for innovate education and research, to educate the automotive engineers of tomorrow.

- The need to integrate electrification into the traditional applied mechanics educations.
- The need to solve technical challenges and bottle-necks within electrification.
- The need to introduce a more system oriented engineer, able to use fundamental engineering art in new innovative, cross disciplinary ways.
- The need to create a positive image around the future automotive engineer, an image that attracts the young people.

The session is organized by the consortium involved in the e-gomotion project, which aims at taking on the talent challenge, raising awareness of future job possibilities and new carrier paths that will emerge as the electrification of road transport evolves. To attract the young and right people, it will be crucial to ultimately uphold the EU capacity for technological innovation for sustainable road transport and keep the position as the number one car developer in the world.

Moderator: JProf. Dr.-Ing. Habil. Jan-Welm Biermann, Institut für Kraftfahrzeuge – RWTH Aachen University**Key Note Speaker:** Dr. Rudolf Carl Meiler, IHuman Resource Director, ThyssenKruppSteel Europe AG, Germany**Discussion Panel:**

- **Zissis Samaras**, Professor and Head, Lab of Applied Thermodynamics, Dept of Mechanical Engineering, Aristotle University, Greece
- **Ewit Roos**, Program Manager Smart Mobility, Technical University Eindhoven, Netherlands
- **Rody El Chammas**, Toyota Motor Europe, France
- **Markus Thoennes**, RWTH Aachen University, Germany,
- **Assad Zougheib**, ARMINES, École des Mines de Paris, France
- **Mia Björkil**, e-gomotion coordinator, Chalmers University of Tecnology, Sweden



SPECIAL SESSION No 21

SPS21: Developing the European Transport Research Alliance (DETRA)



MC 3.5



18:15 - 19:30

Organizer: Adewole Adesiyun, FEHRL

Description of the session:

In 2008, the Lyon Declaration signatories (ECTRI, FERSI, FEHRL, EURNEX, HUMANIST, ISN and NEARCTIS) committed themselves to work together on deepening the European Research Area objectives in transport. From this commitment grew the objective to create a European Transport Research Alliance (ETRA) that would strengthen the transport domain.

Four years after, the development of the Surface Transport

ERA is gaining momentum. The Alliance has examined the strengths, weaknesses, opportunities and threats (SWOT) in the domain and developed common understanding and approaches to reducing fragmentation and overcoming barriers.

The session will provide feedback on the status of the European Transport Research Alliance and the steps that need to be taken for the Alliance to achieve its objectives.

Moderator: Steve Phillips, FEHRL

Speakers:

- **Joris Al**, FEHRL
- **Evangelos Bekiaris**, CERTH/HIT
- **Jean-Pierre Medevielle**, HUMANIST
- **Neil Paulley**, ECTRI
- **Wolfgang Steinicke**, EURNEX

SPECIAL SESSION No 22

SPS22: ERRAC Roadmaps



Petrou Kokkali



18:15 - 19:30

Organizer: Léa Paties, Project Manager, UNIFE

Description of the session:

ERRAC-ROADMAPS, launched in 2009, is an essential coordination tool to ensure that the ERRAC (European Rail Research Advisory Council) 2020 Vision can be turned into a reality. Without effective coordination by the rail stakeholders, to ensure the relevance and applicability of the rail research activities, it is impossible to prioritise the innovative methodologies and technologies for

more competitive rail transport operations. ERRAC-ROADMAPS aims at delivering the ROADMAPS to guide the rail research in order to provide a rail option that is reliable, environmentally friendly, efficient and economic to customers.

These roadmaps will serve as one of the major documents to guide rail research in the upcoming years.

Moderators:

- **Dan Otteborn**, ERRAC Vice Chairman, Bombardier
- **Manuel Pereira**, ERRAC Vice Chairman

Speakers:

- **Christophe Cheron**, SNCF
- **Bo Olsson**, Trafikverket
- **Yves Amsler**, UITP
- **Francesco Favo**, RFI
- **John Amoore**, Network Rail
- **Mark Robinson**, NewRail



Wednesday 25 April 2012

SPECIAL SESSIONS

SPECIAL SESSION No 23

SPS23: Maritime Safety: The Proactive Way Forward



Conference I



18:15 - 19:30

Coordinator/moderator: Apostolos Papanikolaou, Prof., Nat. Technical University of Athens

Description of the session:

The safety of ships and the protection of the marine environment is of prime interest to society, thus also to the international and national maritime regulatory bodies, the maritime industry and the scientific/research community. Recent spectacular marine disasters reminded us of the

urgent need for pro-active safety enhancing measures. The contribution of a variety of European research projects dealing with modern goal /risk-based approaches to maritime safety will be highlighted and related developments at the IMO level will be discussed.

Speakers:

- **Prof. H. Psarftis**, NTUA
- **Prof. K Spyrou**, NTUA
- **Prof. D. Vassalos**, Univ. of Strathclyde N.N.
- **Dr. P. Sames**, Germanischer Lloyd

Thursday 26 April 2012

SPECIAL SESSION No 24

SPS24: Research and Innovation Policies to enhance uptake of Sustainable Transport Solutions



Nikos Skalkotas Hall



13:45 - 15:00

Organizer: Daniela Carvalho, TIS

Description of the session:

This session will present results from various EU projects working on innovation, research policies and agendas to foster discussions on how such policies can contribute towards sustainable transport. From a policy perspective the session will be a very important opportunity to promote discussion between policy makers and researchers on the new strategy for European transport research that will be guided by two key documents which details will be known by then: the Horizon 2020 framework and the Transport Technology Plan (STTP).

The presentations will focus on various aspects related with transport research, ranging from: the linking R&D efforts with other policies and measures to achieve substantial GHG emission reductions in transport, that are in line with the overall targets of the EU to how the innovation process

in transport markets evolves, analysing how the market take-up of beneficial innovative concepts can be improved as well as barriers (both social and technical) and drivers for the market uptake of transport research results along Aeronautics, Air, Road, Rail and Waterborne transport.

Participants in this session will be made aware of Coordination and Support Activities in this area granting a better knowledge on transport innovation and research theory and trends and how they can impact transport's sustainability. Existing strategic research agenda's and the mapping of EU competences and funding mechanisms in this field are to be discussed. In addition relevant messages for shaping future EU transport research and innovation policies will be discussed and results will be shared with policy makers currently working on the Horizon 2020 and STTP

Moderator: Josi Viegas, TIS

Speakers:

- **Ms. Daniela Carvalho**, TIS.pt, Coordinator of the Market-up project
- **Mr. Wolfgang Schade**, ISI Frauhauser, Coordinator of the GHG-TransporD project
- **Mr. Thierry Vanellander**, University of Antwerp, Coordinator of InnoSuTra transport project.
- **Ms. Elisabete Arsinio**, LNEC, representing the OPTIMISM project.



SPECIAL SESSIONS

Thursday 26 April 2012

SPECIAL SESSION No 25

SPS25: Public Private Partnerships' For Transport Infrastructure: Theory & Practice



MC 2



13:45 - 15:00

Organizer: **Dr. Athena Rouboutsos**, Chair COST Action TU1001: Public Private Partnerships in Transport: Trends & Theory (P3T3), Dpt. Shipping, Trade and Transport, University of the Aegean, Greece

Description of the session:

The Session presents work in process carried out by the COST Action TU1001 research network on PPPs in Transport. Paper presentations are organized so as to highlight factors included in the PPP appraisal process followed up by performance indicators and risk mitigation addressed through real options theory compared to a snapshot of the difficulties of the re-negotiation process and

its contextual approach. The Session concludes with questions of economic efficiency as perceived by key stakeholders groups. Finally, while the session puts forward academic research and reasoning, it is moderated by a "concessioner", putting "theory" to the immediate test of "practice".

Moderator: **Bill Halkias**, CEO Attikes Diadromes S.A.

Speakers:

- **Carbonara N. & Pellegrino R.**, Politecnico di Bari, Italy
- **Leviäkangas P.**, VTT Technical Research Centre, Finland
- **Liyanage C. L.**, University of Central Lancashire, UK
- **Mladenovic G.** and **Vajdic N.**, University of Beograd, Serbia
- **Nikolaidis N.** and **Rouboutsos A.**, University of the Aegean, Greece
- **Odeck J.**, Norwegian University of Science and Technology, Norway
- **Temeljotov-Salaj A.**, Gea College, Slovenia
- **Voordijk J.**, Twente University, The Netherlands
- **Wigan M.**, University of Melbourne, Australia
- **Wündsch B.**, Bauhaus-Universität Weimar, Germany

SPECIAL SESSION No 26

SPS26: Transport planning and traffic information systems in cities



MC 3



13:45 - 15:00

Organizer: **George Sarros**, INFOTRIP SA

Description of the session:

Nowadays, Metropolitan areas, like the city of Athens, face ever increasing demands on their transportation systems, especially in developing regions with growing car ownership, large urban immigration, full development of information sources, promotion and deliver better transport planning and management in order to deliver dynamic traveler information services. VIAJEO project, co-funded by the EC DG Research, will address the abovementioned challenges by bringing together various stakeholders to design, implement and demonstrate an open platform in order to enhance efficiency of overall urban mobility which will be demonstrated in four cities: Athens, Sao Paolo, Beijing and Shanghai. In Athens, VIAJEO has implemented a comprehensive database that integrates floating vehicle, fixed measurements and historical traffic data which have led to the development of a dynamic traffic assignment model in order to support efficient transport

management and planning, deliver real time traffic information, provide adaptable data exchange and services interfaces to connect a variety of entities needed for the mobility services. More precisely, companies which are responsible for passenger transport such as taxi companies are able to provide better quality services to their customers, providing to the driver the best dispatch route based on real time traffic conditions in order to reach customer's preferable location accurately. Citizens (end-users) obtain real time traffic information, via various ways such as mobile device, web etc, which is valuable for their daily trips in order to avoid unexpected traffic situation. Finally, the processed data and related traffic indicators provide traffic planners and public authorities with aggregated information about traffic and support them to estimate the status of transportation system in the city.

Moderator: **Patrick Mercier-Handisyde**, Urban Mobility Sector, European Commission, DG Research & Innovation

Speakers:

- **Yanying Li**, ERTICO
- **Vassilios Mizaras**, INFOTRIP SA
- **Gino Franco**, MIZAR Automazione SpA
- **Yannis Tyrinopoulos**, CERTH/HIT
- **Mr. Gerasimos Koklas**, Ministry of Infrastructure Transport and Networks



Thursday 26 April 2012

SPECIAL SESSIONS

SPECIAL SESSION No 27

SPS27: Working on Active Safety Systems: The euroFOT and interactive projects



MC 3.2



13:45 - 15:00

Organizer: Dr. Angelos Amditis, Institute of Communication and Computer Systems

Description of the session:

This special session will present the work performed in the framework of two FP7 research projects, euroFOT and interactive, working on Active Safety Systems.

The methodology of testing followed within the project euroFOT, the data acquisition, management and processing techniques, as well as results of safety impact assessment of several advanced driver support systems, will be presented.

Furthermore, the work performed by the interactive project on the perception of the environment in the vicinity of the ego-vehicle will be presented. Different sensors and systems such as vision sensors, radars and laser-scanners and additional information sources, are integrated in the project perception platform, which will provide a holistic view of the environment.

Moderator: Dr. Angelos Amditis, Institute of Communication and Computer Systems

Speakers:

- **Aria Etemad**, Ford Research & Advanced Engineering Europe
- **Samantha Jamson**, Institute for Transport Studies, University of Leeds
- **Jonas Bargman**, Department of Applied Mechanics, division of Vehicle Safety, Chalmers University of Technology
- **Angelos Amditis**, Institute of Communication and

Computer Systems

- **Mohamed Benmimoun**, Institut für Kraftfahrzeuge - RWTH Aachen University
- **Tobias Hesse**, Deutsches Zentrum für Luft- und Raumfahrt e.V
- **Lars Bjelkeflo**, Volvo Technology, Intelligent Vehicle Technologies

SPECIAL SESSION No 28

SPS28: European maritime collaboration through exchange of service, technology and information: The EuroVIP project



MC 3.3



13:45 - 15:00

Organizer: University of Strathclyde, UK

Description of the session:

EuroVIP aims to co-ordinate European maritime SMEs, associations, larger companies, and research institutions to promote the application of innovative technologies in SMEs, by service, technology and information transfer. Collaboration through the exchange of industrial and research innovations is a key factor in achieving the competitive benefits that globalisation can bring to maritime organisations. EuroVIP takes a novel state-of-the-art approach to Virtual Integrated Partnering and collaboration for the exchange of advances and innovations, notably through a Virtual Integration Platform (VIP).

The VIP, resulted from three EU funded projects, provides a collaborative environment for the integration of engineering tools, and managing exchange of engineering product data either in house or between geographically distributed users e.g. designers. It provides users with functionalities that enable them to manage projects, define and enact

collaborative processes, integrate distributed tools within a process, manage versions of information e.g. design history, carry out holistic optimisation, visualise multiple 4D results, and reuse past knowledge. It provides a basis and compliments a web based partnering facility to support the provision and exchange of new services, information and technologies.

The objectives of the special session include:

- * Present the latest collaborative advantages and opportunities to European maritime companies;
- * Help facilitate European maritime technical and business collaboration and partnering;
- * Demonstrate and provide hands on experience of the VIP;
- * To present a means for Maritime companies to efficiently collaborate within company or with other European and worldwide companies;

Speakers:

- **Professor Alex Duffy**, University of Strathclyde, UK
- **Mr John Murray**, Society Maritime Industries, UK

- **Mr Rajath Hegde**, Safety at Sea, UK
- **Dr Wenjuan Wang**, University of Strathclyde, UK



SPECIAL SESSION No 29

SPS29: Trends in Maritime Logistics and Port Operations



MC 3.4



13:45 - 15:00

Organizer: Maria Boile, Hellenic Institute of Transport

Description of the session:

The recent downturn in world economies, fluctuations in fuel prices and energy and environmental concerns are forcing global supply chain decision makers to re-think their activities and plans at all levels. As a result, serious consideration is given in further improving the efficiencies

of transportation systems and logistics processes. New trends in maritime transportation and port operations will be presented in this session. Emphasis will be given on the economic, environmental and technological challenges facing the industry today.

Moderator: Maria Boile, Hellenic Institute of Transport

Speakers:

- **Athanasios Pallis**, General Secretariat of Ports and Port Policy
- **Lanfranco Benedetti**, WATERBORNE TP
- **Pierre Sames**, Germanischer Lloyd SE
- **Volker H.Rosenkranz**, Innovacion Logistica SL
- **Tony Morrall**, BMT
- **Heike Flämig**, Hamburg University of Technology (TUHH)

SPECIAL SESSION No 30

SPS30: New solutions for sustainable distribution of freight in Urban Areas



Nikos Skalkotas Hall



13:45 - 15:00

Organizer: Gianfranco Burzio, Centro Ricerche Fiat, Italy

Description of the session:

Freight distribution in urban areas is a clear need for the cities but it produces serious impacts in term of traffic, noise, pollution, urban areas occupation, etc. There is a strong interest in new solutions that will reduce these impacts.

The session starts with the description of the user needs as emerged during a specific workshop involving several representative of the different stakeholder: city authority, OEMs, fleet managers, delivery companies, suppliers,). Then the solutions developed inside the

two projects CityMove and CityLog, to reduce negative impacts of freight transport while maintaining adequate transport efficiency, in term of cost and time of the delivery, will be described.

A round table, involving representative of all sectors will then close the session, allowing the participants to discuss about the solution developed by the two projects, in particular about their impact on the city.

Moderator: Gianfranco Burzio, Centro Ricerche Fiat, Italy

Speakers:

- **Sylvain Haon**, POLIS, Executive Director
- **Lina Konstantinopoulou**, ERTICO, Project manager
- **Xavier Augros**, VOLVO, Product Support Systems
- **Werner Schoenewolf**, Fraunhofer Inst. for Production Syst. & Design Technol. IPK, Berlin



Thursday 26 April 2012

SPECIAL SESSIONS

SPECIAL SESSION No 31

SPS31: Cooperative Systems deployment from the Road Operators point of view: The FOTsis project



MC 2



15:45 - 17:00

Description of the session:

The Special Session will be divided into two main parts:

- Description: several presentations
- Round table: discussion on several topics.

The Description part of the session will include presentations on the following topics:

- FOTsis presentation: FOTsis on TRA
- FOTsis technical: technical issues in FOTsis
- Benefits from FOTsis for the Greek infrastructures in the near future

The Round Table part will consist on an open colloquium to discuss the future of ITS and cooperative system in Greece (several topics like):

- User´s point of view of ITS services.
- Cooperation between ITS and toll systems in Greek concessionaries.
- I2V & V2I communications

Moderator: Fotis Gonos (GEK TERNA)

Speakers:

- **José Luis Pirez Iturriaga**, FOTsis Senior advisor, OHL Concesiones
- **Vassilis Mizaras**, President & CEO of ITS Hellas, INFOTRIP-SWARCO Group
- **Gregory Lappas**, ITS Technician, NEA ODOS
- **Konstandinos Diamandouros**, Head of Office, ERF-European Road Federation

SPECIAL SESSION No 32

SPS32: Safety of Vulnerable Road Users (VRU's)



MC 3



15:45 - 17:00

Organizer: Dr. Evangelos Bekiaris, CERTH/HIT

Description of the session:

This session focuses on safety issues and measures for all types of VRUs, including pedestrians, cyclists, motorcyclists, as well as particular traveller groups such as children, elderly and disabled. These groups account for 25% of road fatalities, whereas relevant research and aids to enhance their safety are still at their infancy. In this session the results of major projects in the field of VRU safety will be presented from different research angles (i.e. human factors, engineering, modelling, impact assessment, best practice transfer outside Europe). It should be noted that SAFERIDER project has been awarded with the 3rd best

exhibit prize during the last ICT 2010 Event of the European Commission, the only project awarded in the field of transport. In addition, within FERSI the priorities of relevant safety policies and research priorities for the enhancement of VRU safety was promoted to the European Commission under the auspices of the Lyon Declaration. Finally, a new working group within the iMobility Forum of ERTICO, responsible for the research priorities and roadmap of future European Research has been established, dealing with VRU safety, co-chaired by W. Verhoeve of CLEPA and S. Nikolaou of CERTH/HIT.

Moderator: Dr. Evangelos Bekiaris, CERTH/HIT

Speakers:

- **Stella Nikolaou**, CERTH/HIT
- **Dimitris Margaritis**, CERTH/HIT
- **Roberto Montanari**, University of Modena & Reggio Emilia
- **Marco Pieve**, PIAGGIO SrL
- **Stephane Espie**, IFSTTAR
- **Anna Anund**, VTI
- **Luca Persia**, Sapienza University, Rome



SPECIAL SESSIONS

Thursday 26 April 2012

SPECIAL SESSION No 33



MC 3.2



15:45 - 17:00

SPS33: Innovation and research for a more competitive European rail sector: Horizon 2020

Organizer: Giorgio Travaini, Senior Technical Affairs Manager, UNIFE, the European Rail Industry, Belgium

Description of the session:

Europe will have to deal with larger volume of freight and greater number of passengers. A greater use of greener and sustainable modes of transport is promoted by the EU Transport White Paper with ambitious environmental and transport objectives.

In this context, the **railway transportation sector** has to deal with two key challenges:

- **The railway mode of transport** has to develop its attractiveness/efficiency in order to improve its capacity to absorb a bigger share of traffic. Innovative actions should therefore be developed to satisfy the user's needs;
- **The rail supply industry** has to deal with external competition often heavily supported by national governments from other parts of the world and therefore needs to boost its internal (i.e. in the European market) and external (in the worldwide

market) competitiveness provided that it improves its capacity to provide with lower cost solutions.

The capacity of the rail supply industry to provide innovative and high-technology solutions and to provide a more and more competitive transport offer for the operators of the railway system is therefore critical in order to deal with these challenges.

Today, the rail manufacturing industries are building a Joint Technology Initiative that will be crucial to the preservation of its market leadership, whilst helping the EU to meet its objectives with regard to the environment, transport and industrial policies. The rail JTI called SHIFT4RAIL will create an unprecedented critical mass of research at European level for the integration of innovative technologies into system demonstrators to support common ambitious industrially-driven research agendas.

Speakers:

- **Eric Fontanel**, General Manager, UNIFE, TBC
- **Giorgio Travaini**, Senior Technical Affairs Manager, UNIFE, TBC
- **Josef Doppelbauer**, Chief Technology Officer, Bombardier, TBC
- **Dan Otteborn**, Director for EU Affairs, Bombardier, TBC

SPECIAL SESSION No 34

SPS34: The EC EXTREME SEAS Project



MC 3.3



15:45 - 17:00

Organizer: Elzbieta Maria Bitner-Gregersen, Senior Principal Researcher, PhD Det Norske Veritas, DNV Research & Innovation, Norway

Description of the session:

The EC FP7 Collaborative project EXTREME SEAS (Design for Ship Safety in Extreme Seas) will be presented. The EXTREME SEAS Consortium consists of 11 partners from 6 European countries. The project is coordinated by DNV. The strategic objective of EXTREME SEAS is to enable European shipping industry to improve the design of ship structures that are exposed to rough wave climate, by providing technology and methodology that need to be a part of

design for ship safety in extreme seas and rogue waves. The project accounts for the expected trends in storm intensities, helping shipping industry to adapt to climate change. It is developing also warning criteria for extreme sea states and rogue waves. The case studies considered are devoted to container vessels, passenger ships, LNG carriers and to chemical tankers. The video from model tests will be shown during the presentation.

Moderator: Dr. Elzbieta Maria Bitner-Gregersen, the EXTREME SEAS project Coordinator Senior Principal Researcher, PhD Det Norske Veritas, DNV Research & Innovation, Norway

Speakers:

- **Prof. Carlos Guedes Soares**, supporting technical management of the project, the EXTREME SEAS Work Package 1 and 6 Leader, Centre for Marine Technology and Engineering (CENTEC), Technical University of Lisbon
- **Mr. Johannes Guddal**, Former President of JCOMM, the Chairman of EXTREME SEAS Senior Advisory Panel, The Norwegian Meteorological Institute



Thursday 26 April 2012

SPECIAL SESSIONS

SPECIAL SESSION No 35

SPS35: Building up the future infrastructure networks in Europe

Organizer: Frederic Bourquin, IFSTTAR

Description of the session:

“The session presents the ECTP’s reFINE initiative and the way to best shape our transport infrastructure, ensuring urban mobility and long distance transport while greening our networks and making them resilient to natural or man-made disasters and industrial accidents. The session introduces ideas and time-scale of the implementation of a SRA to construct and maintain road, rail and other infrastructure networks while fostering intermodality and

saving natural resources, replacing materials that deplete energy and produce green house gases. ReFINE is an initiative of the ECTP, devoting its efforts to transport and utility networks, the main key to allow Europe heading towards a competitive economy, a high quality of life, safety and security for all citizens. This special session will develop ReFINE’s Strategic Research Agenda and present the points of view of key stakeholders in the area.”

Moderator: Miguel José Segarra Martinez, DRAGADOS

Speakers:

- Miguel José Segarra Martinez, DRAGADOS
- Steve Phillips, FEHRL
- John Amore, ERRAC
- Sylvie Proeschel, IFSTTAR
- Juan Elvzaga, FERROVIAL



MC 3.4



15:45 - 17:00

SPECIAL SESSION No 36

SPS36: Presentation of the Greek pilot site HeERO, the pan-European in-vehicle emergency call service “eCall” based on 112

Organizer: Georgios Patsiavos, Director of Certification Directorate, General Secretariat of Post and Telecommunications, Ministry of Infrastructure Transport and Networks

Description of the session:

HeERO addresses the pan-European in-vehicle emergency call service “eCall” based on 112, the common European Emergency number. During three years (January 2011 to December 2013), the nine European countries forming the HeERO consortium will carry out the start-up of an interoperable and harmonised 112 based in-vehicle emergency call system. Croatia, Czech Republic, Finland, Germany, Greece, Italy, The Netherlands, Romania and Sweden are all sharing the same high-level objective:

prepare the local e112 eCall infrastructure necessary for the provision of a sustainable eCall service for the European citizens and share their experiences with the other EU Members and Associated States.

The eCall system will help achieving the EU’s objective to decrease the number of severe road injuries and fatalities to 50%.

The project is partially funded by the European Commission under the ICT PSP programme.

Moderator: N/A

Speakers:

- Mr. Georgios Patsiavos, HeERO Pilot Site Leader and Director of Certification Directorate, Ministry of Infrastructure Transport and Networks
- Mr. Angelos Amditis, Technical Adviser of HeERO, Research Director of I-Sense Group at the Institute of Communication and Computer Systems (ICCS), National Technical University of Athens (NTUA)



Petrou Kokkali



15:45 - 17:00



Great Awards to participants and young researchers

Monday 23th April

• YEAR2012 (Young European Arena of Research)



11:00-11:30



Alexandra Trianti Hall

Best young research papers will be awarded through the YEAR2012 competition. Thirty best papers in total covering all 6 pillars have been selected by YEAR2012 judges. The respective young authors enjoy:

- a generous monetary contribution towards their travel and accommodation in Athens
- coverage of participation fees for the TRA2012.

Posters of these papers will be displayed at Skalkotas Hall of the Megaron Athens International Conference Centre during the TRA2012 event.

Awards to be handed by:

- **Mrs. Maire Geoghegan-Quinn**, Commissioner for Research, Innovation and Science
-

Monday 23th April

• VISIONS-OLYMPICS



11:00-11:30



Alexandra Trianti Hall

Best paper awards to maritime students will be given by MARITIME ETP. Papers fulfilling the objectives of VISIONS-OLYMPICS such as “out of box” concepts and ideas for the future of European maritime transport, building bridges and enhances coordination between EU research networks and strengthening the partnership between research Universities and industry etc. Three prizes will be given, corresponding to euros 5000, 3000 and 2000 respectively.

Awards to be handed by:

- **Mr. Bernard Meyer**, CEO of Meyer Werft shipyards
-

Wednesday 25th April

• “ELTIS” Award



10:15-10:30



Alexandra Trianti Hall

This award will be given to a selected TRA2012 paper, which supports and promotes ELTIS objectives, such as the efficient movement of people and goods, successful policies and practices implemented in cities and regions across Europe etc.

The best paper was selected among proposed papers by three judges. The award will be given by Prof. Mike McDonald, member of the TRA2012 Programme Committee

Wednesday 25th April

• TRA2012 Awards



10:15-10:30



Alexandra Trianti Hall

Six token awards, one per Pillar, will be awarded for the best paper respectively. The selected papers best promote the visions’ conference for a **greener, safer and smarter surface transport for Europe** in the thematic areas of each Pillar. The awards will be given by the Chairman and members of the TRA2012 Programme Committee.



any place, any time by public transport

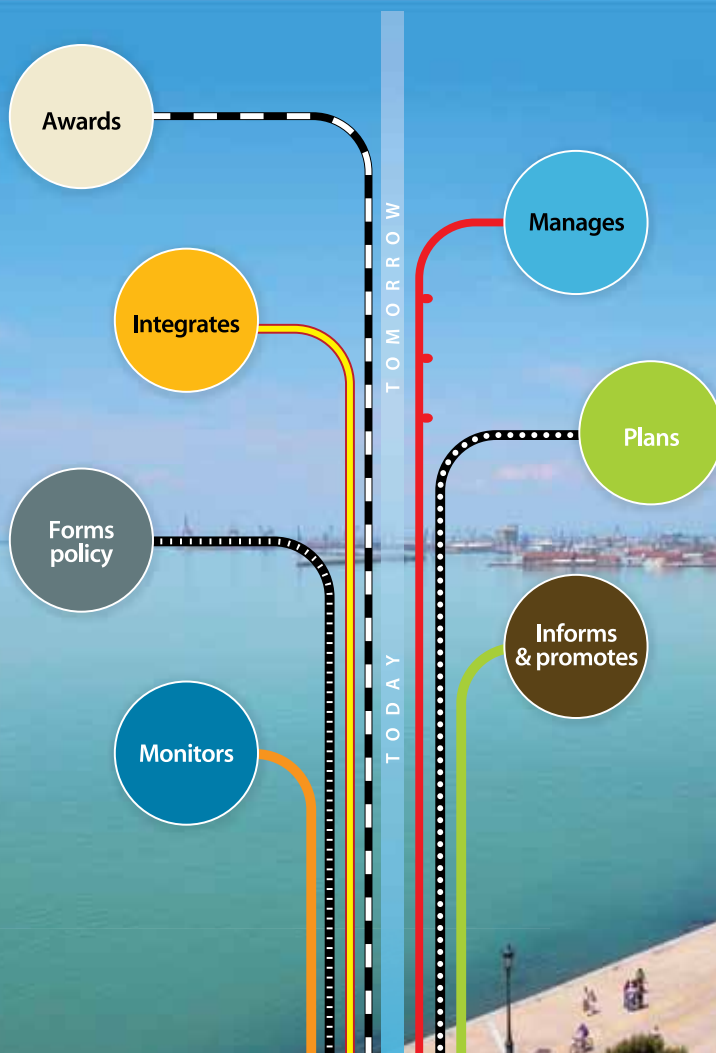
THEPTA functions



THESSALONIKI PUBLIC TRANSPORT AUTHORITY

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<http://www.thita.gov.gr>



Organization:



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Official Airline Network TRA2012:





The Organizing and Programme Committee of the TRA2012 Conference would like to kindly request all Speakers and Presenters to respect the scheduled time limits for each lecture, speech and presentation.

Audiovisual Equipment

All meeting rooms will be equipped with computer, data video projector (PowerPoint presentations) and screen. No slide projector or transparency projector will be available. All speakers and presenters are required to use a USB-key or CDROM for their presentations. All versions of MS PowerPoint are accepted excluding Mac.

Please note that personal laptops will not be permitted for the use of presentations. For that reason, we strongly recommend all speakers to timely deliver their presentation at the Speakers Service Centre

Speakers Service Center

The Speakers Service Center will be operating during the whole duration of the Conference at the Megaron Athens International Conference Centre. It will be located at the main entrance of the Congress Venue (A. Trianti Level). Speakers and Presenters are kindly requested to hand in all presentations material (USB-key or CDROM) at least one hour before their scheduled presentation time and be in the meeting hall of their presentation at least 10 minutes before each session starts.

Posters set up and removal

Accepted posters should be posted by the authors at least half an hour before the start time of the session and should be removed within 30 min. after its end. Poster area is located at N. Skalkotas level.

Material for the set up of the posters will be distributed by the Conference Secretariat. Poster reference numbers will be displayed at the top of the panels. Authors and presenters are kindly requested not to remove or change the numbers on the poster boards.

The Organizing and Programme Committee accepts no responsibility for lost or damaged posters not removed within the above time schedule.

The Conference Secretariat is not responsible for material left behind, lost, stolen or damaged.

Poster Presentation programme

MONDAY, 23 APRIL 2012	14:00 - 18:00	Pillar IV
TUESDAY, 24 APRIL 2012	09:00 - 13:00	Pillar VI
TUESDAY, 24 APRIL 2012	14:00 - 18:00	Pillar III
WEDNESDAY, 25 APRIL 2012	09:00 - 13:00	Pillar I
WEDNESDAY, 25 APRIL 2012	14:00 - 18:00	Pillar II
THURSDAY, 26 APRIL 2012	09:00 - 13:00	Pillar V

At a minimum, one paper author should be present to provide details and answer questions from **10:00-12:00** for the morning sessions and **15:00 - 17:00** for the afternoon ones.



The City of Athens

Athens – The city of mythology and modernity, the city of history and vision.

Each year, more and more travelers are choosing Athens for their leisure and business travel all year round. There are several reasons for that.; Athens offers a variety of things to see and do, and most of the times, under favorable weather conditions. Athens is considered one of Europe's safest capitals; its transportation network is user-friendly; there are numerous museums and archeological sites and hundreds of restaurants to satisfy every taste.

Characterized by a culture and people that are welcoming and hospitable, every visitor just feels at home.

The glorious Athens of antiquity is becoming synonymous with that of its contemporary counterpart.

Athens is an ideal congress destination, combining state-of-the-art infrastructure, excellent conference facilities and easy access from all over the world with world-class cultural attractions, modern amenities, diverse entertainment and natural beauty.



The Conference Venue

The Megaron Athens International Conference Centre (www.maicc.gr) is one of the finest and most technologically advanced conference venues in Europe. It is situated in the city centre yet surrounded by its own extensive landscaped gardens. With numerous large and smaller conference rooms (in total 18 meeting rooms) it offers a stunning environment, exceptional aesthetics, cutting edge technology and unrivalled client service. It also has a 2.000 m² expo hall and foyers of 12.000 m². In addition, the Megaron AICC has an exterior atrium space of 1.500 m² and an underground parking for 750 vehicles. Furthermore, it is also located very close to major museums, shops and fine dining.

Getting to the Venue

The Megaron, Athens International Conference Centre (MAICC) is situated right in the heart of Athens and is easily accessible by metro, bus and trolley bus. It is also located at a walking distance from major and many other smaller hotels. Transport to and from the city centre and the Athens International Airport or other locations is quite easy:

- 30 min. from the Athens International Airport
- 3-5 min. from the city centre.

BY METRO: There is direct access from the airport and the city centre to MAICC from the metro station "Megaron Moussikis" on metro line 3 (blue line).

BY BUS: The following buses, express buses and trolley

Travelling in & around Athens

The Athens public transportation network offers a wide variety of routes, combining many different means, namely the metro, railway, buses, trolleybuses and trams. With a 1,40 € ticket anyone can move around using one or more means of transport within 1 hour and 30 minutes. Tickets are available at all metro and train stations as well as at the kiosks on the streets. Day or weekly passes are also available offering public transport at a discounted rate. When travelling on the bus, metro, railway and tram, passengers are required to validate their tickets after purchasing them and before boarding (metro, tram) or on board (busses etc). The fine for a non-validated ticket in Athens is 40 times its value. The validation machines in the buses and trolleybuses are orange boxes. On the metro, the boxes are in the station lobby and on the tram, there are beige boxes located on the platform and inside the car

Please find below a table with all meeting room capacities & functions:

ROOM	LEVEL	FUNCTION
ALEXANDRA TRIANTI HALL	Entrance Level	Opening Ceremony YEAR 2012 Competition Conference Sessions
NIKOS SKALKOTAS HALL	Level -1	Conference Sessions
MC 2	Level -1	Conference Sessions
MC 3	Level -1	Conference Sessions
MC 3.2	Level -1	Conference Sessions
MC 3.3	Level -1	Conference Sessions
MC 3.4	Level -1	Conference Sessions
MC 3.5	Level -1	Conference Sessions
PETROS KOKKALIS ROOM	A. Trianti Level	Conference Sessions

Detailed floor plans of the Conference meeting rooms are available in pages 114 - 116.

buses pass and stop near the MAICC

- Buses: 450, 550, 601, 603
- Express Buses: X95 (direct airport line), A5, E6, E7, X14
- Cable "Trolley" Buses: 3, 7, 8, 13

FROM & TO THE AIRPORT: The airport is easily accessible from MAICC and the city centre via motorway, express bus or metro. An average journey by taxi from the airport to the city centre should take approximately 40-50 minutes, depending on traffic, costing around €25-30. The express bus line X95 (direction "Syntagma") serves Athens city centre & MAICC. The metro line 3 runs every 10 minutes from the airport and the trip to "Megaro Mousikis" station takes approximately 30 minutes.

Integrated Ticket: 1,40 € (valid for multiple trips on all public transport options, in urban zone - buses, trolleys, tram, metro, suburban railway-, in any direction for up to 90 minutes).

One Way Ticket: 1.20 € (valid only on buses and trolleys for only one trip.)

Airport Express Bus Lines Ticket: 5€ (valid only for one trip from or to the airport)

Airport Metro And Suburban Railway Ticket : 8€ (valid only for one trip from or to the airport)

Day ticket: 4€ (valid for all means of public transport for 24 hours)

Weekly ticket: 14€ (valid for all means of public transport for 7 days)



Currency & Banking

Greece is a full member of the European Union since 1981 and its currency is the Euro (€). All major credit cards are widely accepted in Greece. ATMs and Exchange Offices are widely available.

Foreign currency may be exchanged to Euros at most Greek and foreign banks and at exchange bureaus located in the city centre. Travellers are kindly requested to bring their passport when exchanging money as they will need it for the transaction. Traveller's checks and credit cards issued by major companies are also widely recognized and an accepted means of purchasing items in Athens.

Insurance & Liability

The Organizers accept no liability for any personal injury, loss or damage of property or additional expenses incurred to Conference participants either during the Conference or as result of delays, strikes or any other circumstances. Participants are requested to make their own arrangements with respect to health and travel insurance.

Electricity

The electricity current in Greece is 220v, 50Hz and the socket type is European Standard.

Health

Public hospitals work on a rotation basis with regards to dealing with emergency incidents. To find out which hospitals are open for emergency incidents at a specific time, dial 14944. Treatment in public hospitals is free of charge.

Restaurants

Restaurants and taverns are normally open for lunch from 12.30hrs to 16.00hrs, for dinner from 19.00hrs to midnight. Fast food and Souvlaki shops usually serve food all day long, and some of them stay open till late at night. Cafes and Bars are open all day long until late at night.

Tipping

Tipping is not compulsory, but it is quite usual in Greece.

Sightseeing

Athens takes the fuss of sightseeing. It is a user-friendly town thanks to the pleasant demeanor of the English-speaking Athenians and the easy to use and manageable transportation system. The visitor can see a lot in one day. Archaeological Sites & Classical Greek, Byzantine & Ottoman Monuments, Museums, Art Galleries, street performances, festivals and many other attractions. Needless to say, The Acropolis remains a "must see"...

There is a special ticket package at the price of **€12** with which the visitor can visit almost all archaeological sites within the Athens City Center, namely:

- The Acropolis of Athens (The Museum is not included)
- The Ancient Agora
- Kerameikos
- The North slope of Acropolis
- Olympeion
- The Roman Agora and
- The South Slope of Acropolis

This special ticket package can be bought at the entrance of each one of the above mentioned archaeological sites.

Participants can get information regarding sightseeing tours and excursions from the tour desk located within the Conference Secretariat.

Shopping

Shopping in Athens can be a fascinating and satisfying experience for all. There are many well-known international name brand outlets and traditional Greek art and folklore shops. The visitor must make sure to stop in at least one of the many wonderful year-round outdoor cafés and restaurants in order to make his experience of shopping in the Athenian way, complete!

Shopping Hours:

Major outlets: Monday – Friday, 9:00 – 21:00

Other Shops: Monday & Wednesday 9:00 to 15:30;
Tuesday, Thursday & Friday, 9:00 to 20:30;
Saturday, 09:00 to 15:30



Athens Spotlighted

Through “Athens Spotlighted” programme participants are provided with a free discount city card, which can be used at various cultural sites, museums, art galleries, restaurants, night clubs and a wide variety of selected stores all over Athens. Benefits and discounts, as well as the involved spots and all relevant information can be found in the brochure given together with the card.

Participants are kindly requested to make sure that they collect their validated free city card upon their arrival at Megaron Athens International Conference Center (MAICC) at the Conference Secretariat Desk

Weather

The average temperature in Athens in April is 15–20°C.

Telecommunications

The international access code for Greece is +30 and for Athens 210.

The outgoing code is 00 followed by the relevant country code.

Mobile Phones

Please note that mobile phones must be switched off during all sessions

Emergency phone numbers

Ambulance	166
Emergency Fire Brigade	199
Emergency Hospitals	14944
English-Greek medical information	210 8983146
Athens International Airport	210 3530000
Pharmacies on duty	14944
Poisoning Treatment Centre	210 7793777
Police	100
SOS Doctors	1016
Telephone Directory Service	11888
Tourist Police	71
European Emergency Number	112

Smoking Policy

Starting from July 1st 2009 smoking is prohibited by the law at all indoor public areas in Greece.

Time

Greece is two hours ahead of Greenwich Mean Time GMT+2

Greece 12:00 – London 10:00 – New York 05:00 – Sydney 20:00

Official Language

The Conference’s official language is English. No interpretation will be provided.

Internet Access

Wireless Internet access will be provided free of charge inside the conference venue. Participants may use their own laptops. In addition, an Internet Corner will be operating on the Muses Balcony of the Conference Centre. A maximum of 10–15 minutes will be allocated to each participant.

Conference Secretariat & Registration Desk Hours of Operation

The Conference Secretariat & Registration Desk will be located at the main entrance of the Megaron Athens International Congress Center (A. Trianti Level, entrance level)

Sunday, 22 April 2012	17:00 – 20:00
Monday, 23 April 2012	07:00 – 20:30
Tuesday, 24 April 2012	08:00 – 20:00
Wednesday, 25 April 2012	08:00 – 20:00
Thursday, 26 April 2012	08:00 – 18:00

A tour desk will be located within the Conference Secretariat & Registration Desk and will operate from Tuesday 24 April, 2012. It will provide information about Athens as well as tours in the city and around the country.

Badges & Conference material

Badges & Conference material for participants will be provided from the Conference Secretariat & Registration Desk.

The badges are absolutely necessary for the admission and access to the Conference halls and exhibition. The badges will bear a barcode which will be checked and controlled by authorized personnel at the entrance of the conference halls.



Registration Category	On Site Registration	Registration Category	On Site Registration
Participant	€ 500	Paper Author (all categories)	€ 400
Group Registration (min 10 persons)	€ 450	Invited participant	€ 0
Participant from a Special Country*	€ 250	Exhibitor's Additional Staff	€ 150
Student	€ 100	Accompanying Person	€ 150

	Conference Bag & Conference material	Conference badge	Admission to Scientific Sessions	Admission to the Exhibition Areas	Coffee breaks & Lunches	Opening & Closing Session	Welcome & Farewell Reception
Participant	●	●	●	●	●	●	●
Group Registration	●	●	●	●	●	●	●
Participant from a special Country	●	●	●	●	●	●	●
Student	●	●	●	●	●	●	●
Paper Author (one per paper)	●	●	●	●	●	●	●
Paper Author	●	●	●	●	●	●	●
Invited Participant	●	●	●	●	●	●	●
Exhibitor's Additional staff		●		●	●	●	●
Accompanying person		●		●	●	●	●

Participants from Special Countries*

- Participants coming from (passport holders) a country which is not: EU member state, EFTA member state, GCC member state, USA, Canada, Australia, New Zealand, Russia, Israel, Japan, China, and Republic of South Africa can register with a reduced registration fee.
- The reduced registration for participants from Special Countries includes the same benefits as those of main participants.

Invited Participants:

The following categories have the right to be registered as Invited participants:

- Invited Plenary Session Speakers and Chairs
- Invited Strategy Session Speakers and Chairs
- Members of TRA2012 MC, OC, PC Committees
- YEAR Competition Finalists
- Invited Journalists
- Other Invited Officials
- Sponsor's Invited Participants
- Exhibitor's Invited Staff (*)

*All invited participants have the same benefits as the main participants.
(*) Exhibitor's invited staff has no access in the Conference Rooms*



Exhibitor's Additional Staff

- Each exhibitor will receive free entry passes to the Exhibition Area for a number of persons according to the exhibition space that has been booked.
- Entry Passes for Exhibitors' additional staff can be provided upon registration to the specific category
- **Access to the Conference Rooms will not be allowed.**

Accompanying Persons

- Name of the accompanying person should be mentioned in the main participant's registration form.
- Accompanying person's registration fee includes access to the exhibition areas, coffee breaks and lunches, admission to Opening & Closing Session and participation to Welcome and Farewell Reception.
- **Access to the Conference Rooms will not be allowed.**

Paper Authors

- All authors of the same paper can register with the author Registration Fee
- For the e-publication of the full paper, it is required that at least one registration per accepted paper is made.

Students

- Student Registration is available for both undergraduate and postgraduate students.
- A copy of the student card or a similar document is required in order for the registration to be confirmed.
- The original student card or document must be presented at the Conference Secretariat upon registration.

Exhibition

An international trade Exhibition will be in place during the Conference. All organizations and companies taking part at the Exhibition will have the opportunity to be promoted in the global transport research sector, while discovering new business opportunities.

The TRA2012 Conference Exhibition is spread into two levels: The Muses Foyer (entrance level) and the N. Skalkotas Foyer (level -1)

Monday, 23 April 2012

**11:30
11:30 – 20:00**

Official Opening of the Exhibition

Operation of the Exhibition

Tuesday, 24 April 2012

09:00 – 20:00

Operation of the Exhibition

Wednesday, 25 April 2012

09:00 – 20:00

Operation of the Exhibition

Thursday 26 April 2012

09:00 – 17:00

Operation of the Exhibition

Cash Bar

For the convenience and the better service of TRA2012 participants, cash bars will be operating on both levels of the Conference Center, throughout the day.

Coffee & Lunch Breaks

Coffee Breaks and Lunch boxes will be offered to all registered participants & Exhibitors, according to the time schedule announced in the programme. They will be provided by using relevant coupons, which will be included in the Conference bags

Lost & Found

For lost & found items, please contact the Conference Secretariat

Certificate of Attendance

A certificate of attendance will be distributed to all participants by the Conference Secretariat to all registered participants from Tuesday, April 24th till the end of the Conference.



Welcome Reception

April 23rd 2012 at the Megaron Athens International Conference Center

The Welcome Reception event of the TRA2012 Conference will take place at the Megaron Athens International Conference Center, on the first day of the Conference. Modern music and cocktails / finger food will accompany the warm meeting of all Conference participants.

Place: Banqueting Hall (level -2)

Date: 23 April 2012

Time: 20:00.

Gala Dinner

April 24th 2012 at the New Acropolis Museum Restaurant

The official Gala Dinner of the TRA2012 Conference will take place in the restaurant of the Acropolis Museum, an archaeological site-specific museum, housing the most famous works of classical antiquity. The Museum galleries house findings from the slopes of the Acropolis and other collections. The first gallery's glass floor offers views to the excavation, while its upward slope eludes to the ascent to the Acropolis. The new Museum offers all the amenities expected in an international museum of the 21st century and, despite its short period of operation, it has already become a pole of attraction for thousands of people from all around the world.



Place: Acropolis Museum restaurant

Closest metro station: Acropolis (red line)

Guided tour's starting time: 20:00

Dress code: Evening attire

All participants are kindly requested to present their invitations at the entrance.

A guided tour to the Museum will be offered to all Gala Dinner participants, prior to the dinner start. Participants will be divided into groups. One guide will be allocated to each group. Cocktail & Dinner will follow on the roof restaurant of the Museum.

Farewell Reception

April 25th 2012 at Aegli Zappeiou

The history of AEGLI, which is located in the Zappion Gardens (next to the Zappion Hall), dates back to the 19th century. It was originally built in the late 1880s as a kiosk. Its purpose was to provide Athenians with a meeting spot where they could enjoy their coffee with friends or take refreshment following one of the small theatrical shows that took place in the Gardens. A further consideration was to help provide for the upkeep of the Gardens and all commercial gains were earmarked for this purpose.

Over the decades AEGLI became an Athenian landmark and a common rendez vous point for social and intellectual gatherings, where its unique view of the Acropolis, the Kallimarmaro Stadium and the Saronic Gulf could be enjoyed. Today, Aegli has been renovated and rejuvenated, always keeping in mind the need to live up to its name. Aegli has returned for Athenians and visitors to their city with a dual role: on the one hand, to revitalize in the minds of older Athenians (and to familiarize younger ones) the notion of neoclassical Athens and, on the other hand, to enhance the cultural profile of Greece's capital.



Place: Olympia Hall, Aegli Zappeiou

Access to Aegli:

On foot from the Conference Center: 15min walking distance, through Vas. Konstantinou & Vas. Olgas Avenues

By Metro: Closest Metro Station: Syntagma, exit Amalias Av. - National Garden. Direction Aegli Zappeiou - next to Zappeion Megaron

By Taxi: entrance from Vas. Olgas Avenue

Time: 20:00

Dress code: Smart Casual

All participants are kindly requested to present their invitations at the entrance.



Sponsors & Exhibitors of the TRA2012 Conference:





FINAL PROGRAMME ACKNOWLEDGEMENTS



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On vous y attend !

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To learn more, visit us at stand 46



Ministère de l'Écologie, du Développement durable, des Transports et du Logement

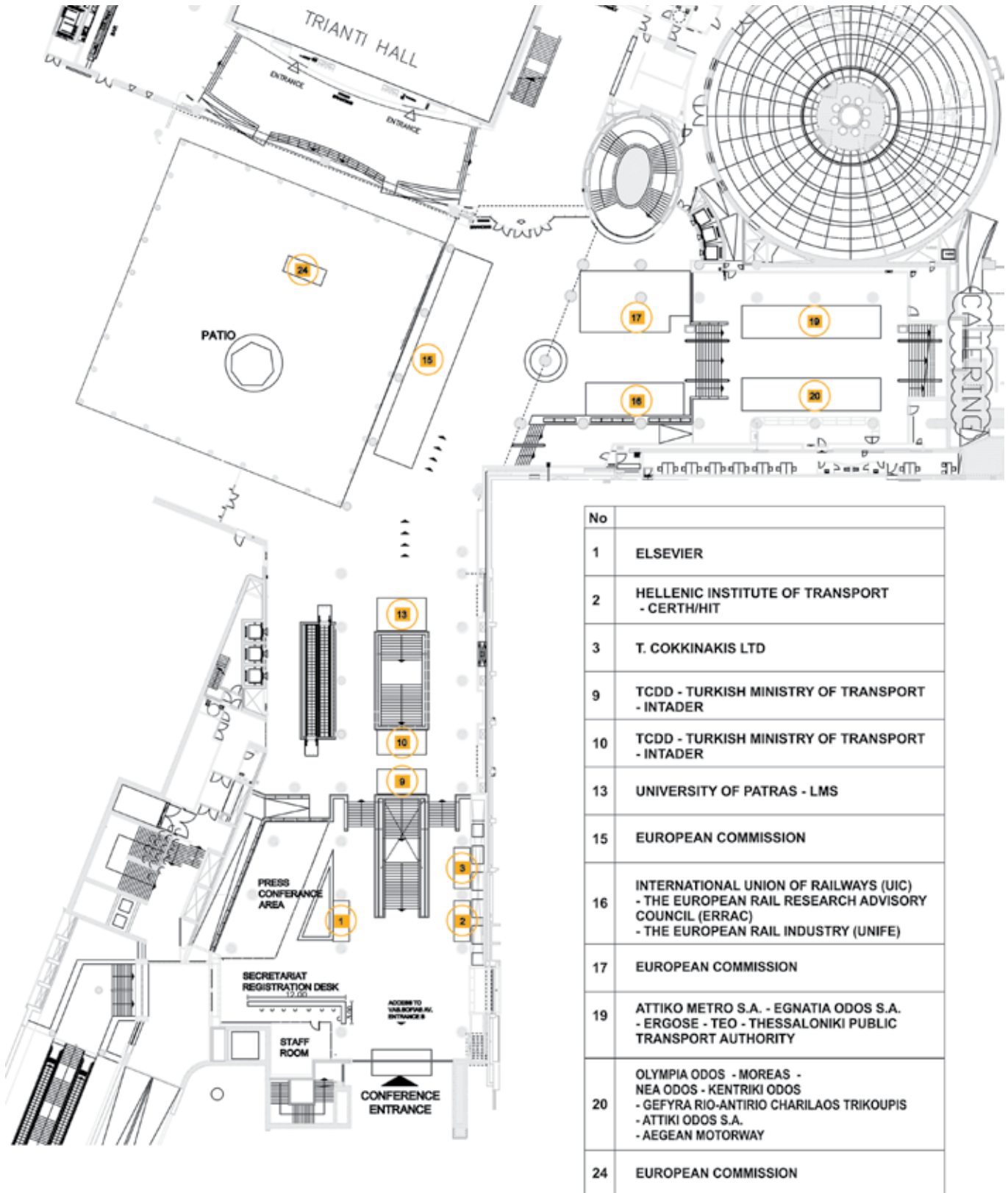


www.developpement-durable.gouv.fr



Muses Foyer (entrance level)

TRA 23-26 April, 2012
Megaron AICC, Athens - Greece
Transport Research Arena • Europe 2012 Sustainable Mobility through Innovation



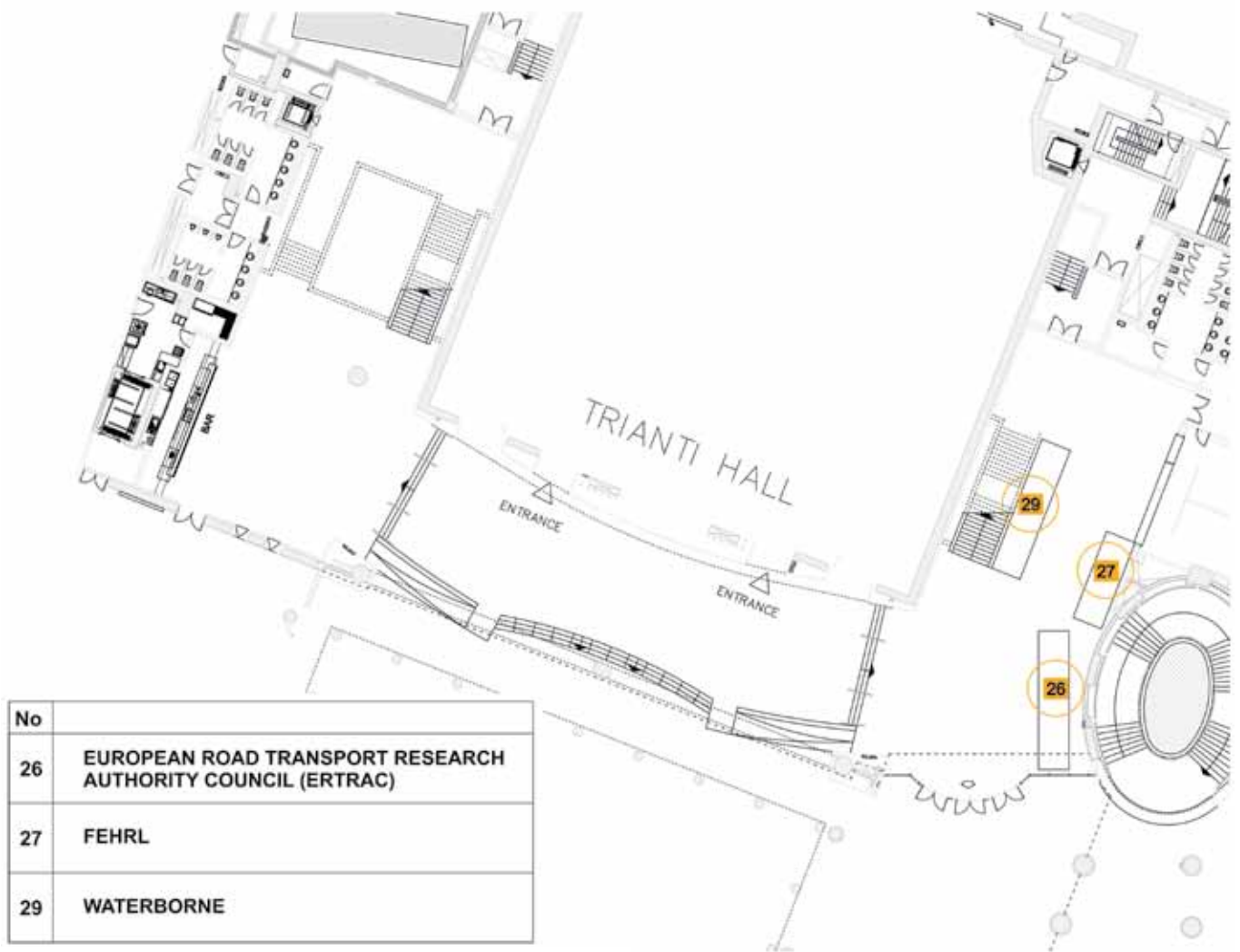
FINAL PROGRAMME

EXHIBITION FLOOR PLANS



Alexandra Trianti Foyer (entrance level)

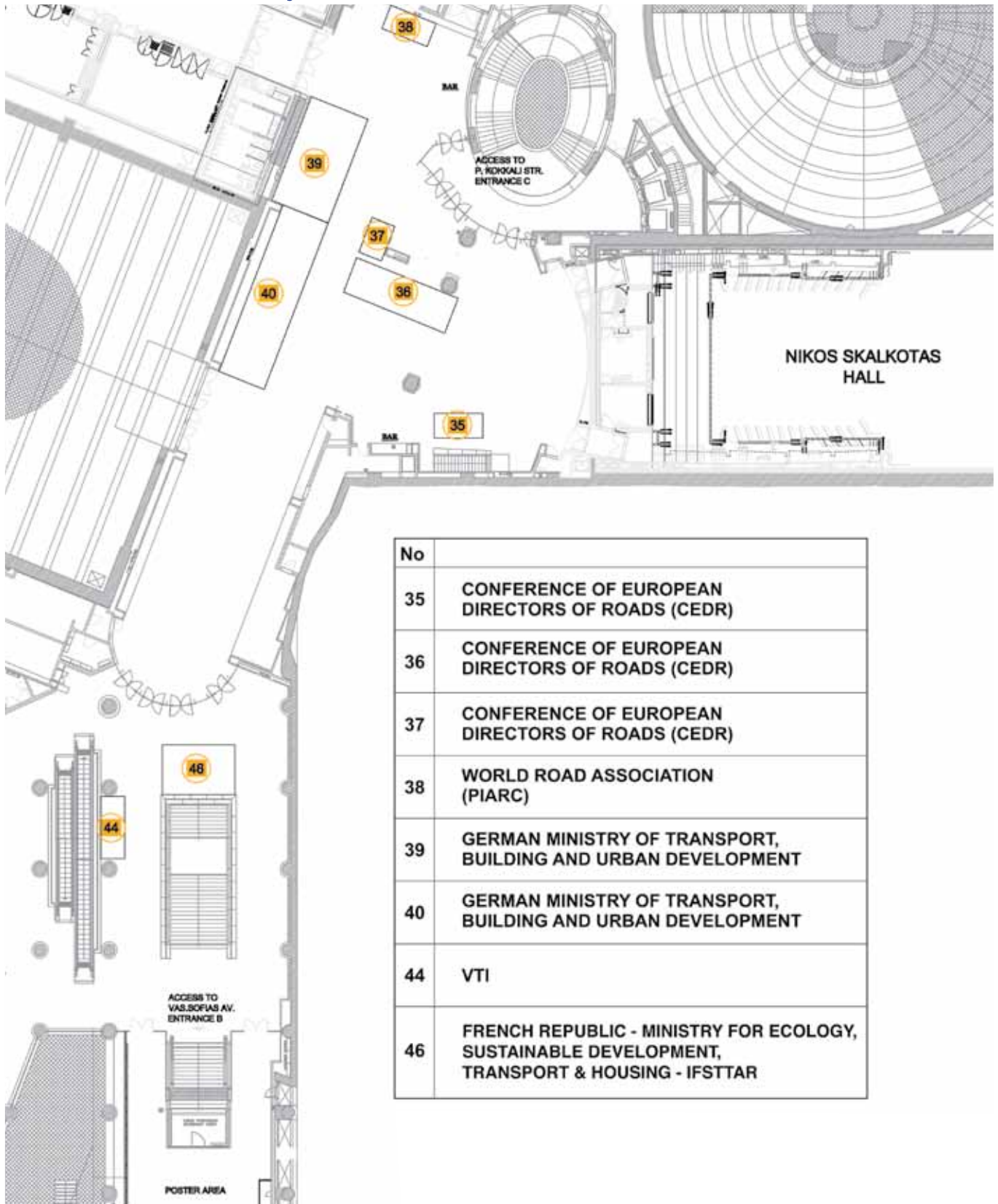
TRA  23-26 April, 2012
Megaron AICC, Athens - Greece
Transport Research Arena • Europe 2012 Sustainable Mobility through Innovation





Nikos Skalkotas Foyer (level -1)

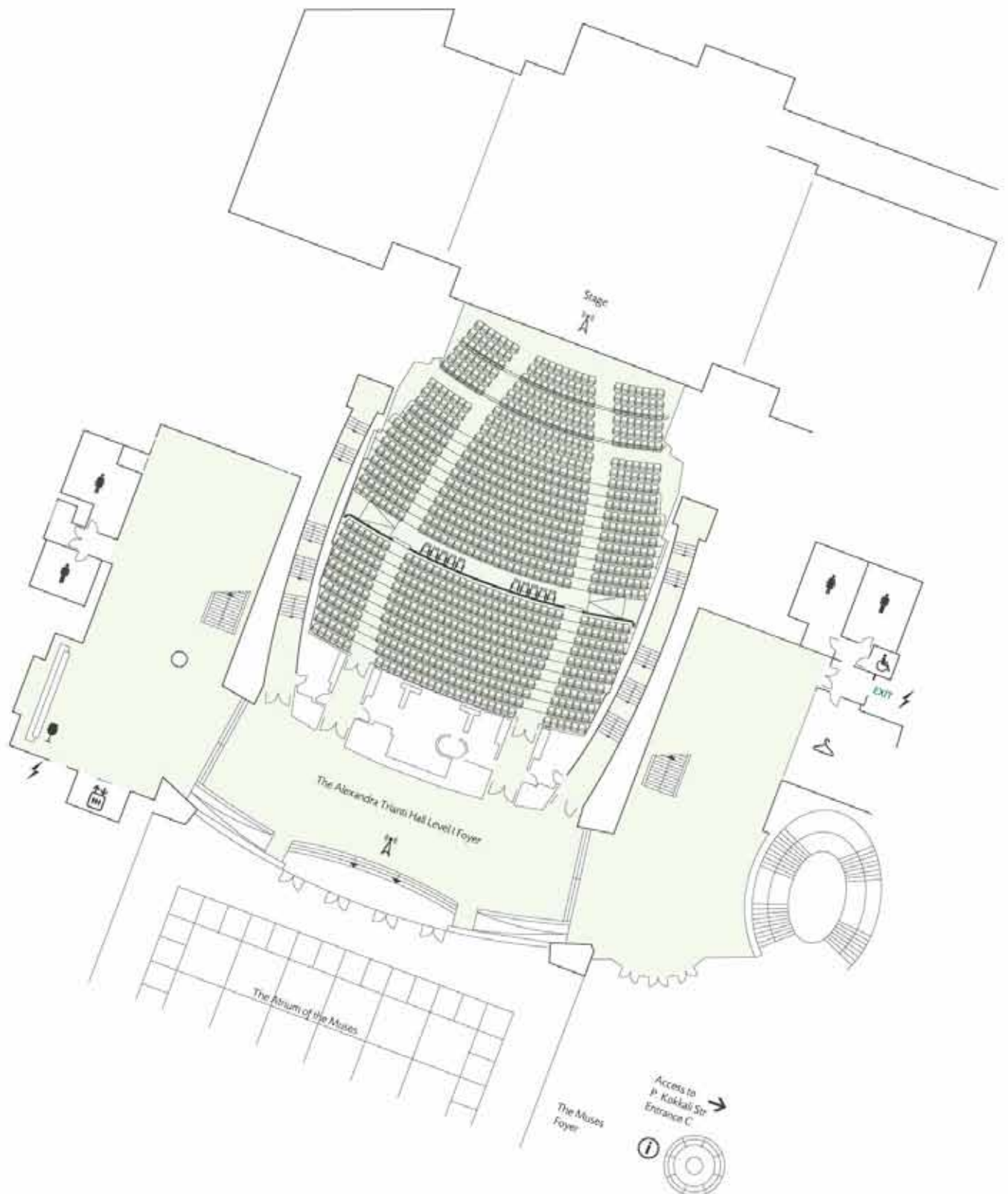
TRA 23-26 April, 2012
Megaron AICC, Athens - Greece
Transport Research Arena • Europe 2012
Sustainable Mobility through Innovation





Alexandra Trianti Hall (entrance level)

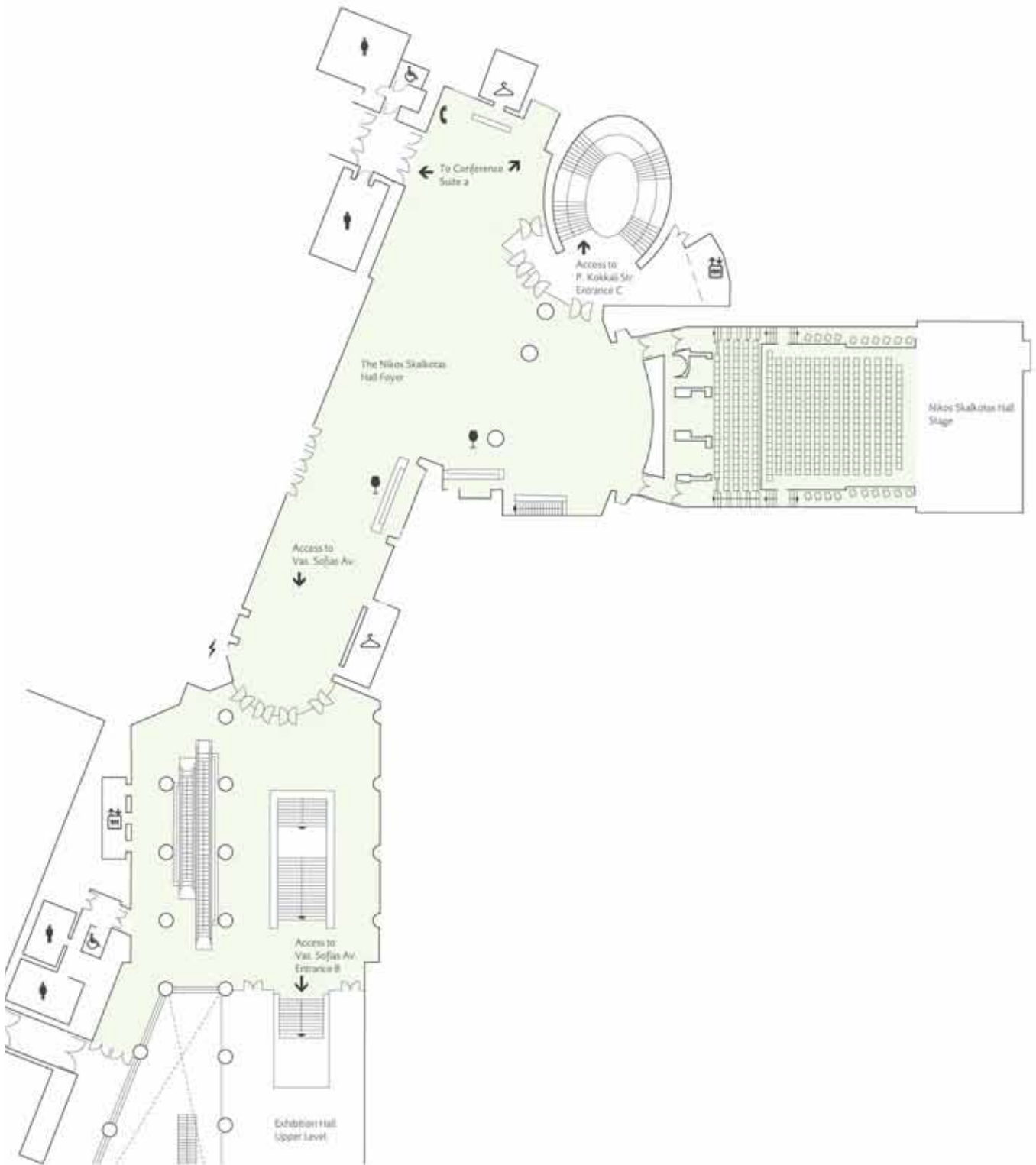
TRA 23-26 April, 2012
Megaron AICC, Athens - Greece
Transport Research Arena - Europe 2012
Sustainable Mobility through Innovation





N. Skalkotas Hall (level -1)

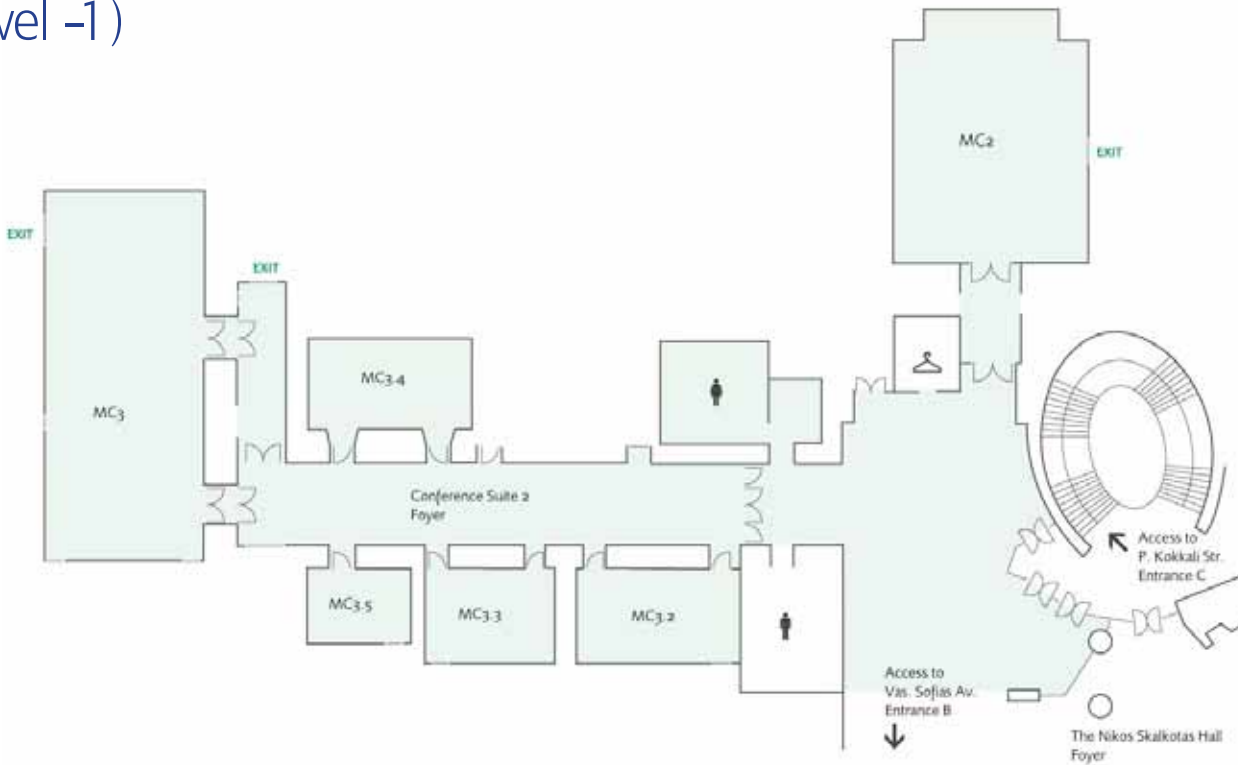
TRA 23-26 April, 2012
Megaron AICC, Athens - Greece
Transport Research Arena • Europe 2012 *Sustainable Mobility through Innovation*



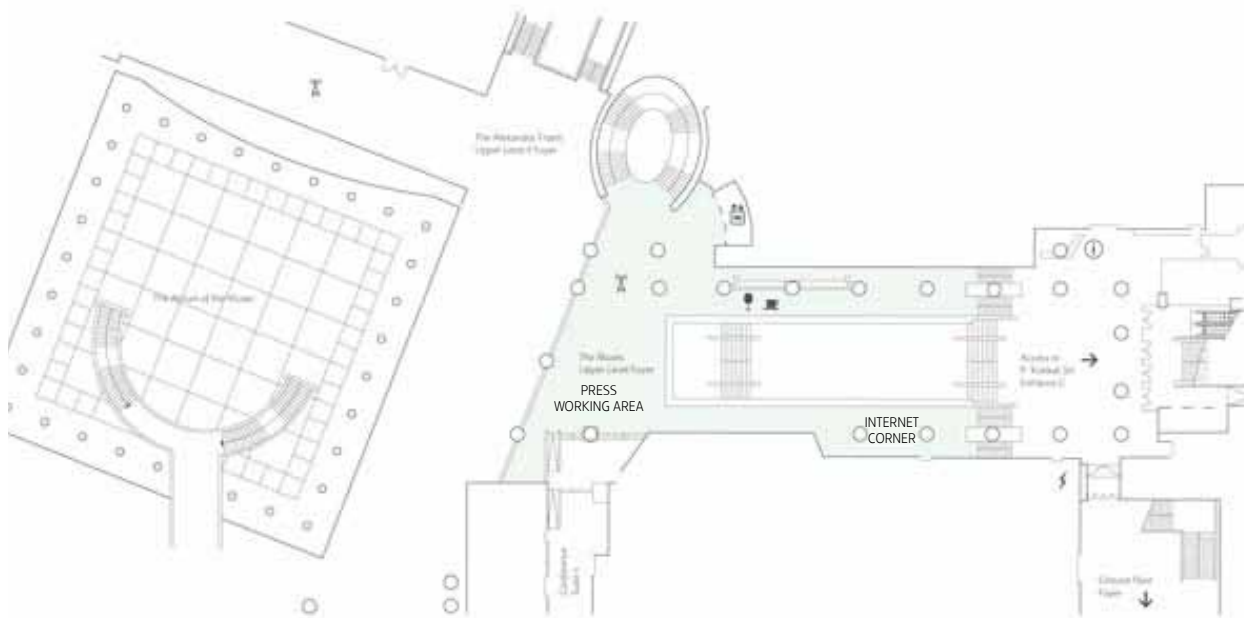


Conference Rooms
 MCs Meeting Rooms
 (level -1)

TRA 23-26 April, 2012
 Megaron AICC, Athens - Greece
Transport Research Area • Europe 2012 Sustainable Mobility through Innovation



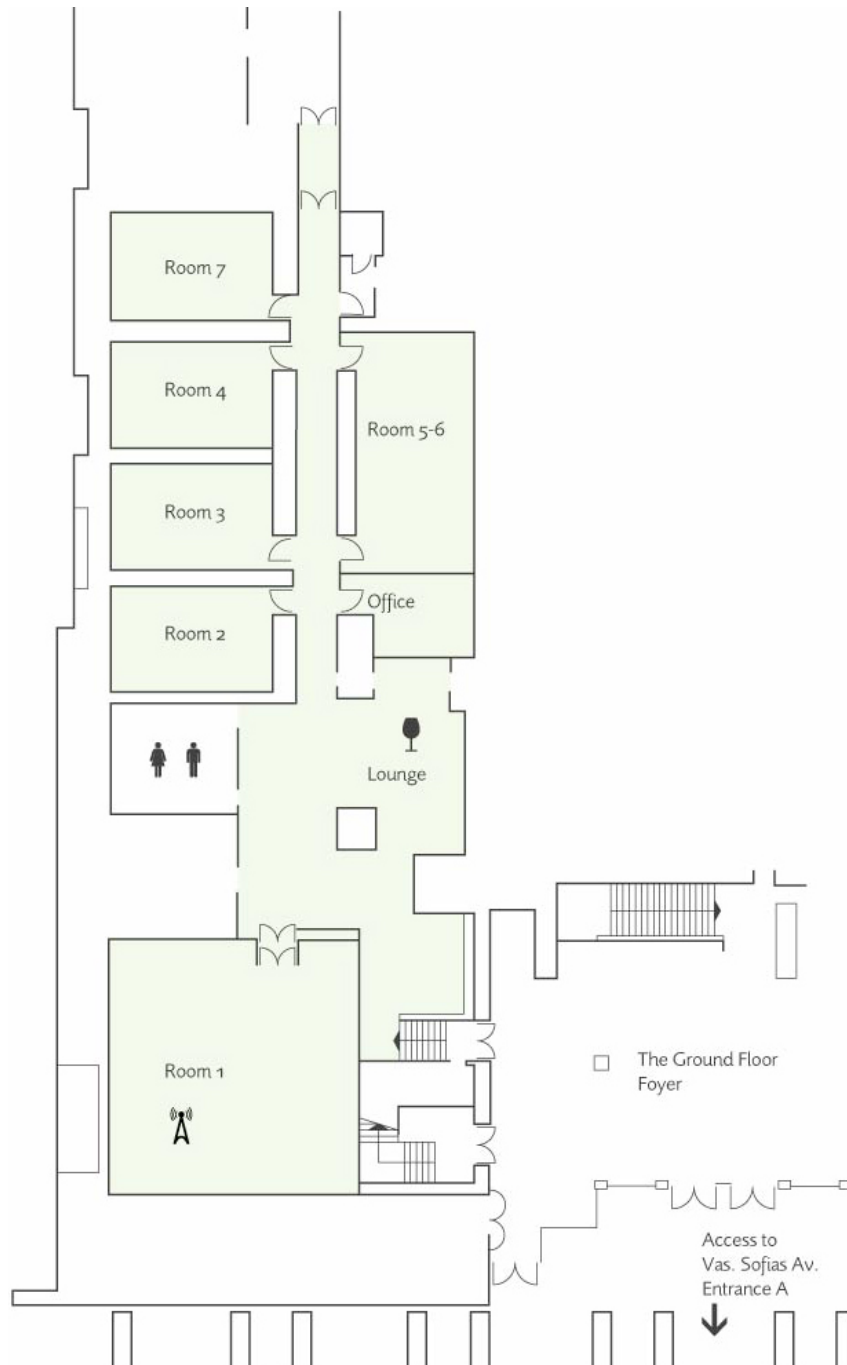
Press Working Area & Internet Corner
 (Muses Balcony)





Parallel Events Rooms
(Central Building -
Megaron Concert Hall level 1)

TRA 23-26 April, 2012
Megaron AICC, Athens - Greece
Transport Research Arena • Europe 2012 *Sustainable Mobility through Innovation*





Plenary Sessions

Opening Ceremony

PLENARY SESSION No1:

EU 2020 objectives on transport innovation: from research to deployment

PLENARY SESSION No2:

Competitiveness of the European transport industries

PLENARY SESSION No3:

Decarbonisation and future energy forms in transport

Handing over from TRA2012 to TRA2014

Strategic Sessions

STS1: Innovation in Transport: new trends from the EU

STS2: Rail Vision for the Future

STS3: Infrastructure for the 21st century

STS4: Cooperation of European, national and regional programmes in surface transport

STS5: Efficient Services for Intermodal Freight Transport and Logistics

STS6: Sustainable mobility in cities for passengers

STS7: Intelligent Transportation in a Connected Society

STS8: Integrated Transport from the Travellers' Perspective

STS9: Efficient and interoperable railways

STS10: Transport research cooperation and R&D trends around the world

STS11: WATERBORNE Industries Competitiveness

STS12: The Future of Road Transport Electrification

STS13: Road Safety: A decade of Action

Thematic Sessions

THS1: Client Focused Road Maintenance (P I)

THS2: Railway safety (PIII)

THS3: Urban Public Transport (PII)

THS4: Transport Modeling and Simulation I (PII)

THS5: Road vehicles (P V)

THS6: Emissions Control and Alternative Fuels (P IV)

THS7: Financing of Transport Infrastructure (P I)

THS8: Maritime safety (PIII)

THS9: Walking and Cycling (P II)

THS10: Transport Modeling and Simulation II (PII)

THS11: Railway design and construction (P V)

THS12: New transport and mobility concepts (PVI)

THS13: Competition in Transport Business (P I)

THS14: Safety on Driver oriented issues (P III)

THS15: Freight Transport I (P II)

THS16: Vulnerable users (P III)

THS17: Pavement modeling (P V)

DATE & CONFERENCE ROOM

23/04/2012, Alexandra Trianti Hall

23/04/2012, Alexandra Trianti Hall

24/04/2012, Alexandra Trianti Hall

25/04/2012, Alexandra Trianti Hall

26/04/2012, Alexandra Trianti Hall

DATE & CONFERENCE ROOM

23/04/2012, Alexandra Trianti Hall

23/04/2012, Nikos Skalkotas Hall

23/04/2012, MC 3

24/04/2012, Alexandra Trianti Hall

24/04/2012, Nikos Skalkotas Hall

24/04/2012, MC 3

24/04/2012, Alexandra Trianti Hall

24/04/2012, Nikos Skalkotas Hall

24/04/2012, (MC 3)

25/04/2012, Alexandra Trianti Hall

25/04/2012, Nikos Skalkotas Hall

25/04/2012, MC 3

25/04/2012, Nikos Skalkotas Hall

DATE & CONFERENCE ROOM

23/04/2012, Nikos Skalkotas Hall

23/04/2012, MC 2

23/04/2012, MC 3

23/04/2012, MC 3.2

23/04/2012, MC 3.3

23/04/2012, MC 3.4

23/04/2012, Nikos Skalkotas Hall

23/04/2012, MC 2

23/04/2012, MC 3

23/04/2012, MC 3.2

23/04/2012, MC 3.3

23/04/2012, MC 3.4

24/04/2012, Nikos Skalkotas Hall

24/04/2012, MC 2

24/04/2012, MC 3

24/04/2012, MC 3.2

24/04/2012, MC 3.3



Thematic Sessions (Continued from previous page)

	<u>DATE & CONFERENCE ROOM</u>
THS18: Moving More Efficiently (P IV),	24/04/2012, MC 3.4
THS19: Efficient Transport Policies (P I)	24/04/2012, Nikos Skalkotas Hall
THS20: Safety Assessment (P III)	24/04/2012, MC 2
THS21: Freight Transport II (P II)	24/04/2012, MC 3
THS22: Cooperative and Automated Systems (PII)	24/04/2012, MC 3.2
THS23: Rail and maritime vessels (P V)	24/04/2012, MC 3.3
THS24: Travel behavior and cultural aspects (P VI)	24/04/2012, MC 3.4
THS25: Infrastructure Management (PII)	25/04/2012, MC 2
THS26: Transport Policy for Sustainability (P I)	25/04/2012, MC 3
THS27: Mitigating Noise Pollution (PIV)	25/04/2012, MC 3.2
THS28: Pavements and environment (P V)	25/04/2012, MC 3.3
THS29: Logistics and intermodal transport (P VI)	25/04/2012, MC 3.4
THS30: Transport Mode Shifts (P I)	25/04/2012, Nikos Skalkotas Hall
THS31: Safety on Vehicles oriented issues I (P III)	25/04/2012, MC 2
THS32: Mobility & Accessibility I (P II)	25/04/2012, MC 3
THS33: Energy and Emissions Modeling I (P IV)	25/04/2012, MC 3.2
THS34: Assessment of bridges and tunnels (P V)	25/04/2012, MC 3.3
THS35: Safety infrastructures related issues I (P III)	25/04/2012, MC 3.4
THS36: User Demand on Transport Services (P I)	25/04/2012, Nikos Skalkotas Hall
THS37: Safety on Vehicles oriented issues II (P III)	25/04/2012, MC 2
THS38: Mobility & Accessibility II (P II)	25/04/2012, MC 3
THS39: Energy and Emissions Modeling II (PIV)	25/04/2012, MC 3.2
THS40: Pavement maintenance and operation (P V)	25/04/2012, MC 3.3
THS41: Transport Decision Support & User acceptance (P VI)	25/04/2012, MC 3.4
THS42: Robust and Resilient Transport Systems (P I)	26/04/2012, Nikos Skalkotas Hall
THS43: General safety approaches (P III)	26/04/2012, MC 2
THS44: Traffic Management (PII)	26/04/2012, MC 3
THS45: Innovative Electromobility Schemes (P IV)	26/04/2012, MC 3.2
THS46: Combined infrastructure and vehicle effects (P V)	26/04/2012, MC 3.3
THS47: Safety infrastructures related issues II (P III)	26/04/2012, MC 3.4

Special Sessions

	<u>DATE & CONFERENCE ROOM</u>
SPS1: New perspectives in transport research in Turkey - The Rail sector	23/04/2012, Conference I
SPS2: Railway Safety & Security	24/04/2012, Alexandra Trianti Hall
SPS3: Debate between the most important Greek Road concessionaires	24/04/2012, Alexandra Trianti Hall
SPS4: The European Bus of the Future	24/04/2012, Nikos Skalkotas Hall
SPS5: Green corridors in Europe	24/04/2012, MC 2
SPS6: Sustainable Mobility in Action with CIVITAS: Innovative mobility solutions for sustainable urban transport in Europe	24/04/2012, MC 3
SPS7: Cost-effective improvement of rail transport infrastructure	24/04/2012, MC 3.2
SPS8: Greener Merchant Shipping: The Poseidon projec	24/04/2012, MC 3.3
SPS9: The largest study of driving behavior ever conducted: SHRP 2 & NDS	24/04/2012, MC 3.4
SPS10: Measuring Carbon Footprint of Freight Transport Chains	24/04/2012, MC 3.5
SPS11: Automated driving	24/04/2012, Petrou Kokkali



Special Sessions (Continued from previous page)

	DATE & CONFERENCE ROOM
SPS12: ICT for sustainable logistics: best practices and roadmap to 2020	24/04/2012, Conference I
SPS13: The way forward for European Transport Research (Horizon 2020)	25/04/2012, Alexandra Trianti Hall
SPS14: Gender Issues in Transportation - Bridging the Gap	25/04/2012, Petrou Kokkali
SPS15: Development of the European Road Safety Observatory - The DaCoTA project	25/04/2012, Nikos Skalkotas Hall
SPS16: iMobility Forum Research & Innovation Recommendations 2011-2020	25/04/2012, MC 2
SPS17: Transport, NMP and ICT NCP Networks join forces aiming towards an improved participation of European organizations in the FP7	25/04/2012, MC 3
SPS18: The path to the European Road Transport Electrification - The Contribution of CAPIRE	25/04/2012, MC 3.2
SPS19: Strategic Research for Innovative Marine Propulsion Concepts: The STREAMLINE project	25/04/2012, MC 3.3
SPS20: The Talent Challenge in Electro Mobility	25/04/2012, MC 3.4
SPS21: Developing the European Transport Research Alliance (DETRA)	25/04/2012, MC 3.5
SPS22: ERRAC Roadmaps	25/04/2012, Petrou Kokkali
SPS23: Maritime Safety: The Pro-active Way Forward	25/04/2012, Conference I
SPS24: Research and Innovation Policies to enhance uptake of Sustainable Transport Solutions	26/04/2012, Nikos Skalkotas Hall
SPS25: Public Private Partnerships' For Transport Infrastructure: Theory & Practice	26/04/2012, MC 2
SPS26: Transport planning and traffic information systems in cities	26/04/2012, MC 3
SPS27: Working on Active Safety Systems: The euroFOT and interactiVe projects	26/04/2012, MC3.2
SPS28: Presentation of the Greek pilot site HeERO, the pan-European in-vehicle emergency call service "eCall" based on 112	26/04/2012, MC 3.3
SPS29: Trends in Maritime Logistics and Port Operations	26/04/2012, MC 3.4
SPS30: European maritime collaboration through exchange of service, technology and information: The EuroVIP project	26/04/2012, Petrou Kokkali
SPS31: New solutions for sustainable distribution of freight in Urban Areas	26/04/2012, Nikos Skalkotas Hall
SPS32: Cooperative Systems deployment from the Road Operators point of view: The FOTsis project	26/04/2012, MC 2
SPS33: Safety of Vulnerable Road Users (VRU's)	26/04/2012, MC 3
SPS34: Innovation and research for a more competitive European rail sector: Horizon 2020	26/04/2012, MC 3.3
SPS35: The EC EXTREME SEAS Projec	26/04/2012, MC 3.4
SPS36: Building up the future infrastructure networks in Europe	26/04/2012, MC 3.5

MONDAY, 23 APRIL 2012

9:30 - 11:00

11:00 - 11:30

11:30

11:30 - 12:00

COFFEE BREAK

12:00 - 13:15

13:15 - 14:30

LUNCH

14:30 - 15:45

15:45 - 16:15

COFFEE BREAK IN THE EXHIBITION HALL

16:15 - 17:30

17:30 - 18:45

18:45 - 20:00

BREAK

20:00 - 22:00

TUESDAY, 24 APRIL 2012

9:00 - 10:15

10:15 - 11:00

COFFEE BREAK IN THE EXHIBITION HALL

11:00 - 12:15

12:15 - 13:45

LUNCH

13:45 - 15:00

15:00 - 15:30

COFFEE BREAK IN THE EXHIBITION HALL

15:30 - 16:45

16:45 - 18:00

18:05 - 19:20

20:00 - 23:00

WEDNESDAY, 25 APRIL 2012

9:00 - 10:15

10:15 - 10:30

10:30 - 11:00

COFFEE BREAK IN THE EXHIBITION HALL

11:00 - 12:15

12:15 - 13:45

LUNCH

13:45 - 15:00

15:00 - 15:30

COFFEE BREAK IN THE EXHIBITION HALL

15:30 - 16:45

16:45 - 18:00

18:05 - 19:20

20:00 - 23:00

FREE EVENING

THURSDAY, 26 APRIL 2012

9:00 - 10:15

10:15 - 11:00

COFFEE BREAK IN THE EXHIBITION HALL

11:00 - 12:15

12:15 - 12:30

12:30 - 13:45

LUNCH

13:45 - 15:00

15:00 - 15:45

COFFEE BREAK IN THE EXHIBITION HALL

15:45 - 17:00

MONDAY, 23 APRIL 2012

9:30 - 11:00

11:00 - 11:30

11:30

11:30 - 12:00

COFFEE BREAK

12:00 - 13:15

13:15 - 14:30

LUNCH

14:30 - 15:45

15:45 - 16:15

COFFEE BREAK IN THE EXHIBITION HALL

16:15 - 17:30

17:30 - 18:45

18:45 - 20:00

BREAK

20:00 - 22:00

TUESDAY, 24 APRIL 2012

9:00 - 10:15

10:15 - 11:00

COFFEE BREAK IN THE EXHIBITION HALL

11:00 - 12:15

12:15 - 13:45

LUNCH

13:45 - 15:00

15:00 - 15:30

COFFEE BREAK IN THE EXHIBITION HALL

15:30 - 16:45

16:45 - 18:00

18:05 - 19:20

20:00 - 23:00

WEDNESDAY, 25 APRIL 2012

9:00 - 10:15

10:15 - 10:30

10:30 - 11:00

COFFEE BREAK IN THE EXHIBITION HALL

11:00 - 12:15

12:15 - 13:45

LUNCH

13:45 - 15:00

15:00 - 15:30

COFFEE BREAK IN THE EXHIBITION HALL

15:30 - 16:45

16:45 - 18:00

18:05 - 19:20

20:00 - 23:00

FREE EVENING

THURSDAY, 26 APRIL 2012

9:00 - 10:15

10:15 - 11:00

COFFEE BREAK IN THE EXHIBITION HALL

11:00 - 12:15

12:15 - 12:30

12:30 - 13:45

LUNCH

13:45 - 15:00

15:00 - 15:45

COFFEE BREAK IN THE EXHIBITION HALL

15:45 - 17:00



Transport Research Arena • Europe 2012

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