



19th **ITS World Congress**
Vienna, Austria
22 to 26 October **2012**

Congress

Exhibition

Demonstrations

Preliminary Programme

Smarter on the way



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Welcome Letters



Welcome to the ITS World Congress 2012

The European Commission is pleased to invite you to the ITS World Congress 2012. As the focal point of global ITS knowledge, the congress will display the world's latest developments in Intelligent Transport Systems and innovative mobility solutions. The 19th World Congress will take place in the Austrian capital, Vienna, from 22 to 26 October 2012.

With the theme *Smarter on the way*, the 2012 Congress will highlight the need to bring even more intelligence to transport systems where increasing demand and persisting challenges to safety and sustainability cannot be overcome just by more network construction or a business as usual approach.

The European Commission has called for a major reduction in the oil dependency and CO₂ output of transport, better integration of transport modes and new models for passenger and freight transport in its 2011 Transport White Paper. None of these can be achieved without considerable investment in innovative technologies, research, deployment and accompanying regulation. Some instruments are already available to support Europe-wide use of ITS and put ITS research findings into operation, such as the policy and legal framework provided by the ITS Directive and ITS Action Plan. Other instruments, such as the Strategic Transport Technology Plan, will be adopted still this year and will feed into discussions on Europe's new framework to support research, innovation and technological development (called "Horizon 2020"), which will run from 2014 to 2020. The ITS World Congress 2012 in Vienna will be an excellent opportunity to learn about, see and experience state-of-the-art Intelligent Transport Systems and Services, and make us all really *Smarter on the way*. We would like to invite you to Vienna, and we look forward to meeting you there.

Thanks to the exceptional outdoor facilities around Vienna's Congress Centre, visitors to the World Congress will enjoy a wide variety of dynamic demonstrations. These will include the first ever show of globally-harmonised, interoperable cooperative systems applications in real traffic conditions, and give people the chance to experience first-hand this strand of cutting-edge ITS technologies. Advanced ICT technologies and solutions are set to further permeate the transport system as we know it today, by making each mode of transport more efficient, safer and cleaner, and by integrating them into a truly multi-modal transport system.

Siim Kallas, Vice-President and Commissioner responsible for Transport, European Commission

Neelie Kroes, Vice-President and Commissioner responsible for the Digital Agenda, European Commission

Máire Geoghegan Quinn, Commissioner responsible for Research, Innovation and Science, European Commission



It is my pleasure to invite you to the ITS World Congress in Vienna in October 2012. The use of Intelligent Transport Systems ensures that our global transport flows safer, in a more environmentally friendly and efficient manner. ITS is the integrated element that improves safety, guarantees free flowing traffic and reduces the negative impact on the environment. In order to achieve this goal it is critical to connect all modes of transport. Austria has already established an excellent and modern transport system that has a positive effect on our economy. In this hi-tech sector we rely on a strong ITS industry.

We are fortunate that Transport, Innovation and Technology are under one roof in one Ministry. This facilitates efficient cooperation between research, development and implementation of cutting-edge transport systems. We focus on alternative propulsion, smart interfaces between individual and public transport as well as environmentally friendly freight solutions.

As Minister it is my particular concern that mobility is not only dynamic but affordable for everyone. At the forefront of our interest lie the advantages for the business location and society in general.

The technology should support people's daily movement and mobility requirements. ITS should help the economy by moving freight in a safer, faster and greener way. Our motto *Smarter on the way* mirrors this user service-orientated focus.

I would particularly welcome submissions from women in the ITS sector because we are aiming to increase the female participation at our congress. Take this opportunity to present your innovations, to exchange ideas with your counterparts and to gain experience at this leading event. Vienna is the best place to be.

*Doris Bures
Austrian Minister of Transport, Innovation & Technology
Host of ITS Vienna 2012*

Welcome Letters

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Welcome to a dynamic city, full of life where modern architecture and historical buildings stand side-by-side. It is a town that provides employment for its population and every possible opportunity to its youth. Furthermore Vienna is a city of green parks, of calm and dreamlike alleyways, and a city where art and music are also esteemed.

Justifiably Vienna is considered a city where the medical and social services are exemplary. By providing headquarters to international organisations e.g. OPEC, the United Nations and IAEA, Vienna established its reputation. Additionally our city is well known as a cosmopolitan place for culture and creature comforts.

Vienna is a city with a very high standard of living, where the public transport is excellent. A capital needs a sophisticated transport system and a well organised mass transit to ensure that it runs smoothly. In Vienna this works so well that public transport is already the preferred means of transport for the Viennese. This keeps the city alive and running.

Get an idea of this town - of its flair, its culture and of course of its transport system. As mayor of this city I am very happy that the 19th World Congress for Intelligent Transport Systems is taking place in Vienna and I hope that all of the attendees will enjoy their stay here.

Michael Häupl
Mayor of Vienna



On behalf of ERTICO – ITS Europe and its Partners, I am pleased to invite you to attend and participate in the 19th World ITS Congress to be held in Vienna.

The Congress is an excellent venue to see the latest European and world ITS technologies, products and services, to explore and create new business opportunities to address the transport needs of today and

tomorrow, and to meet important actors from the ITS world.

The Congress, under the theme *Smarter on the way*, will focus on how ITS can improve mobility in terms of efficiency, the environment and ease of use. The challenge of true multi-modal travel must be recognised and met in this regard, and I believe that Vienna, and Austria, is at the forefront of ITS R&D and deployment. I also look forward to the planned demonstrations, where you will be able to experience the latest ITS technologies firsthand.

Vienna is of course a beautiful city in its own right, and I'm sure it will prove to be an excellent host for the 19th ITS World Congress.

I'm looking forward to meeting you at the Congress and sharing in the exciting and dynamic experiences planned.

Gunter Zimmermeyer
Chairman Supervisory Board ERTICO – ITS Europe

Intelligent Transport Systems - the dream of mobility without accidents, delays and obstructions, a dream of travelling comfortably and environmentally friendly, anywhere, anytime.

But can we ever achieve this dream?

This ITS World Congress, the 19th since 1991, is the world's major event showing the continuous progress towards this dream.

But the last 20 years have also revealed that improving the transportation system is a very complex process. Improvement doesn't only depend on progress in technology. In fact there is also a change necessary in organisational structures, within the legal framework, and of policies and political commitment. The most important thing is to address the willingness to change mobility behaviour of each and every individual.

The ITS Vienna 2012 will show a number of new developments, specifically in linking technology components to complex systems with the aim to empower intelligence within vehicles and transportation infrastructure. Co-operative Systems is the keyword for the transport system of the future. It responds to the complexity of managing multimodal traffic systems and provides users with the quality and variety of services necessary to match their mobility demands. Co-operative systems and services are the most promising concept in transportation over the last decade. They not only address vehicles or infrastructure or a single mode of transportation but are moreover applicable to all modes of transportation and the services therein. Co-operative Services have the ability to initiate significant change towards an integrated transportation system (integrated services, better utilisation of network capacities). They meet modern mobility requirements and achieve a sustainable transport system within the time frame expected by the European White Paper on Transport.

This was the motivation to choose *Smarter on the way* as the leading theme for the ITS Vienna 2012 with a dedicated focus on serving customers, connecting seamlessly and encouraging sustainability. All people and organisations involved in the preparation of the ITS Vienna 2012 are giving their best for a successful event and we do hope that the congress, the exhibition and the demonstrations will meet and exceed your expectations towards a promising future, so that all people in the world can be smarter on the way. See you in Vienna, 22 to 26 October 2012.

Reinhard Pfliegl
Chair of National Organising Committee ITS Vienna 2012



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Welcome Letters



On behalf of ITS Asia-Pacific, it's my great pleasure to welcome you all to the 19th ITS World Congress Vienna, Austria.

The world is growing as an integrated economy strongly propelled by emerging economies such as those in Asia-Pacific region, where building faster, safer, and more reliable transportation network across the continent and across the oceans is essential for both economic growth and improvement of quality of life.

Confronting global challenges, such as safety, energy supply, and rapidly changing business environment, ITS community should now engage diverse stakeholders with broader perspectives.

ITS World Congress in Vienna is where we find the right experts on a variety of issues to find viable directions to go. Policies, technologies, institutional issues, human factors, and international collaboration are all covered with supporting facts and experiences.

I'm looking forward to seeing you and sharing ideas and experiences with you in Vienna.

Hiroyuki Watanabe
Chairman, ITS Japan



On behalf of ITS America, I am pleased to invite you to attend the 19th ITS World Congress to be held in Vienna, Austria.

Building on the wonderful experiences in Orlando, the theme of this year's Congress – *Smarter on the way* – could not be more timely. We will focus on smarter, cleaner, safer, and more sustainable transportation. Smarter, more sustainable mobility is increasingly significant globally and the 19th ITS World Congress in Vienna will focus on the important challenges we face in increasing the pace of bringing smart solutions to the transportation sector.

The World Congress provides the definitive opportunity for the global ITS Community to learn, discuss, challenge and strategically advance ITS at all levels: political, technical, industrial and societal. The Congress provides a unique platform to exchange ideas from leading companies, government agencies and research institutions and to develop connections for deployment: it enables every voice to be heard.

Vienna will be another milestone towards a world where ITS is a major force in improving the well-being of society. Globally, Intelligent Transportation Systems are catalysing an expanded transportation enterprise better equipped to serve our economies and societies into the future. We have arrived at an inflection point of rapid advancement, and I am delighted to have the opportunity to invite you to join us at the Congress in Vienna!

Peter Sweatman
Chairman, Intelligent Transportation Society of America



CONGRESS FORMAT (Session descriptions)

Information will be updated on the event website at regular intervals. Please visit www.itsworldcongress.com

Ministerial Round Table

On the Opening Day of the Congress, Transport Ministers worldwide will meet to discuss the importance of a coordinated and rapid deployment of ITS on a global scale in a restricted Round Table meeting during which the three regional ITS platforms will present to the Ministers. The Ministerial Round Table, entitled "Accelerating ITS Deployment – The role of policy making" will conclude with the official endorsing of a declaration. The objectives of the declaration smarter on the way are to achieve a common approach for safer, more efficient and environmentally friendly transport systems and mobility services for the future. The declaration will also increase political commitment to integrating appropriate ITS technologies and services into national transport policies, and will boost quick and effective implementation of coherent and consistent ITS applications on a global scale.

Plenary Sessions

All attendees are welcome to the Opening and Closing Ceremonies, during which personalities from today's world of ITS will present their personal views on key ITS issues.

Executive Sessions

During these sessions, high-level industry executives and public officials from around the world will share their perspectives and experiences with the audience. They will provide an exciting opportunity to learn about and help plan future ITS initiatives.

Special Interest Sessions

Organised at the request of organisations or experts developing and deploying ITS, these interactive, tailor-made meetings will delve into topics and offer fresh perspectives and insight on technological, organisational and operational levels.

Technical/Scientific Sessions

These sessions are composed of presentations by international experts on varying ITS related topics encompassing all technical, economic, organisational and societal aspects of ITS. They aim to encourage and facilitate the exchange of information on every aspect of ITS deployment ranging from improving the operational use of systems and services on the one hand, to research and planning to support new applications on the other.

Interactive Sessions

To facilitate information exchange, the Interactive Sessions will provide a two stage presentation opportunity to ensure that presenters can reach and exchange with the appropriate audiences of interested delegates which their work deserves. The first stage of the Interactive Session is a regular presentation session where Technical/Scientific papers covering the same topic are grouped together for presentation in order to facilitate discussion on that topic. For each session of 90 minutes there will be a minimum of 15 presentations (max of 3 slides) with no time for questions and answers. This stage will provide the audience with a flavour of what the authors have to present. The second stage of the session is a timeslot immediately following the presentation where all presenters assemble for around 90 minutes in the "Market Square", using a board or a computer, to go in-depth and facilitate direct contact between speakers and specialists giving time for one-to-one discussions.

IBEC Sessions

The International ITS Benefits, Evaluation and Costs Working Group (IBEC) was created to provide a forum for information exchange on ITS evaluation techniques, best practice and case studies. In 2012 IBEC welcomes you to 4 Special Sessions (numbers 9, 24, 38 and 52) and a pre-Congress Workshop (see page 112).

PROGRAMME AT A GLANCE				Plenary Sessions		Executive Sessions		Host Sessions	
Room	Stolz 1	Stolz 2	Lehar 1	Lehar 2	Lehar 3	Lehar 4	Strauss 1	Strauss 2	Strauss 3
	Optimising Provision and Use of Infrastructure, Traffic and Travel Data and Information	Intelligent Infrastructure	Continuity and Interoperability of Seamless Multimodal Services for Mobility	Integrated Safety and Security for all Users	Connected Vehicles, Infrastructure and Users for Cooperative Mobility Services	Sustainable, Clean and Energy Efficient Mobility			
Monday 22 October									
16.30-18.30								Opening Ceremony Plenary Session 1	
Tuesday 23 October									
09.00-10.30								Plenary Session 2	
Coffee Break									
11.00-12.30	EU From government to governance – A modern administration of ITS for the benefit of the end users	AP Realisation of new Vehicle cloud concept and smartphone-ITS	EU Multi-modal journey made easy	EU A better image for safety enforcement	AM The fully connected vehicle: International collaboration mandatory	AM Emerging ITS strategies and sustainability	Intelligent Transport Systems & Telematics: car manufacturers' perspective		
Lunch									
14.00-15.30	Traffic & network management – Urban (1)	Road user charging (1)	Multi-modal journey planners	Driver assistance & support systems (1)	V-to-I applications (1)	Eco-traffic management (1)	Optimisation techniques	Communication technologies: comfortable and resilient system for the next generation	ITS and the economy – Doing more for less
Coffee Break									
16.00-17.30	Traffic management (1)	Sensor & detection systems – Safety & enforcement	Innovative multi-modal mobility	Vulnerable and impaired mobility travellers (1)	V-to-I applications (2)	Eco-traffic management (2)	Optimisation techniques 2 nd part	Mobile device data as a source of traveller behaviour information	Elements of ITS policy
Wednesday 24 October									
09.00-10.30	EU How ITS helped London deliver the 2012 Olympics and Paralympics games and a future outlook into future ITS deployment in large events	EU EasyWay : the European platform to foster ITS implementations on TEN T roads	AM Moving toward integrated smart corridors: A global necessity	AP Pedestrian detection in various manners	EU Connected mobility and market ecosystem	AP Fully automated platoon system (on energy ITS project)	Intelligent infrastructure	Attracting a New Generation – New Skills for New Jobs in the Transport Sector	ITS for Urban Mobility
Coffee Break									
11.00-12.30	Travel information (1)	GNSS & location based services (1)	Multi-modal Real-time information services	Human factors & HMI (1)	Vehicle platooning	Electromobility – Vehicles (1)	Intelligent infrastructure 2 nd part	Traffic management infrastructure deployment models	Future trends in city mobility
Lunch									
14.00-15.30	Traffic & network management – interurban (1)	Traffic control – Systems (1)	Freight & logistics (1)	Driver assistance & support systems: sensors (1)	V-to-X: Communication technologies (1)	Electromobility – Vehicles (2)	Seamless multimodal services	International ITS cooperation – Connected vehicles	Making multimodality the pillar of modern life
Coffee Break									
16.00-17.30	AM How intelligent cities revitalise local communities and economies	EU Road charging based on satellite navigation: experiences and trends in Europe and US	EU ITS and the cities – Smart cities for cleaner mobility	EU Global perspective – Emergency service response – eCall	AP Vehicle-IT convergence for the fully networked car	AP Demonstrating the environmental contributions from demand responsive traffic control	Seamless multimodal services 2 nd part	EU-US Cooperation: Results of the Working Groups	ITS for Urban Mobility – Speed Networking
Thursday 25 October									
09.00-10.30	AM Optimising ITS from a customer service perspective	AM Follow the money: ITS, commercial vehicles and freight; An international perspective	AP Bike Sharing and Bike Rapid Transit (BiRT) for green transportation	AP Driving behaviours by aged drivers and safety countermeasures	EU Cooperative ITS Field Operational Tests in Europe	EU ITS for fully electric vehicles : Political framework, research & deployment aspects	Integrated safety and security	EU International Cooperation Summit: Smart mobility applications	National ITS Associations
Coffee Break									
11.00-12.30	Navigation System & Digital Maps (1)	Incident & Congestion Management (1)	Electronic payment & ticketing	Preventive & active safety systems (1)	V-to-X: Communication technologies (2)	Electromobility – Vehicles (3)	Integrated safety and security 2 nd part	Global vehicle safety systems	ITS enabling future sustainable mobility
Lunch									
14.00-15.30	Decision support techniques (1)	EETS (1)	Multi-modal real-time information: Analysis	Secure systems & infrastructures	V-to-X: Communication technologies (3)	Eco-driving and eco-routing (1)	Cooperative mobility	New concepts of smart mobility	The implication for ITS of new GNSS services
Coffee Break									
16.00-17.30	AM The Data commons – A collaborative open concept satisfying users	AM 21 st Century workforce development : Changing the way we think about ITS education and training	EU TPEG – a multimodal, bearer-independent, multi-platform travel information tool now reaching End-Users	AM Emergency evacuation and special events (Plan, implement, post event assessment)	AP Co-operative safety applications on rural road to support policy decision makers	EU Bringing energy efficiency into goods transport	Cooperative mobility 2 nd part	EU International Cooperation Summit: Tools for deployment	Towards fully automated driving: enablers, roadblocks and deployment scenarios
17.45-19.00	Business Session	Business Session	Business Session	Business Session	Business Session	Business Session	Business Session	Business Session	Business Session
Friday 26 October									
09.00-10.30	AP Cloud computing on ITS	EU Implementing the European Electronic Toll Service – what challenges remain?	AM Integrated dynamic transit operations: Can public transport realise the potential of connected vehicles, travellers and infrastructure?	EU Advanced integrated safety applications based on enhanced perception, active intervention and new advanced sensors	AM Connected vehicle research in the United States and international observations	EU Global perspectives – Cooperative energy efficiency applications	Environmental aspects	ITS Standardisation for harmonised and effective deployment	ITS for all – Capacity building for a smarter transportation system
Coffee Break									
11.00-12.30	Traffic management (2)	EETS (2)	Multi-modal journey planner – Underpinning algorithms	Preventive & active safety systems (2)	Autonomous vehicle concepts	Eco-driving and eco-routing (2)	Environmental aspects 2 nd part	Future strategy for road transport policy using probe data	Global ITS Associations
Lunch									
13.30-15.30								Conclusion Session Plenary Session 3 Closing Ceremony	

Plenary Sessions

Opening Ceremony and Plenary Session I

Monday 22 October 2012, 16.30–18.30

Strauss Hall

Master of Ceremonies

Ms Melinda Crane

Opening Ceremony

In addition to the well-established routine of the Opening Ceremony at the ITS World Congress, this year we have selected the finest Austrian stars and artists as part of our cultural programme. Their performances will be a highlight, as they are usually only found on the world's best stages.

The cultural programme will swing from tradition to innovation, under the theme *Smarter on the way*. Entertainment will pass through the genres, as the world-famous Vienna Boys' Choir shows us how "music moves", a performance which will be followed by the ever-graceful Vienna State Ballet.

Please register for this stunning occasion, which promises to be an unforgettable start to an excellent week.

Invited Speakers

Ms Doris Bures, Minister of Transport, Innovation and technology, Austria

Mr Michael Häupl, Mayor of Vienna, Austria

Mr Siim Kallas, Vice-President and Commissioner for Transport, European Commission

Mr Jean Mesqui, Chairman, ERTICO - ITS Europe

Mr Peter Sweatman, Chairman, ITS America

Representative from Japan

Plenary Session I – Smarter on the way: today's achievements, tomorrow's ambitions

Smarter on the way is the 2012 Congress theme and means the goal that all citizens and businesses have at all times access to, and can benefit from, the most reliable, efficient and widespread intelligent mobility solutions.

In this Plenary, political and business leaders will describe how intelligent transport solutions are shaping today's transport system and its operations, while addressing users' needs in terms of connectivity, reliability, safety, security and comfort. The Plenary will also discuss ambitions for seamless and integrated transport, and explore how to bring even more intelligence to transport systems to cope with a future where it will not be possible to deal with increasing transport demand and persistent challenges to safety and sustainability just by more network construction or a business-as-usual approach.

After a range of introductory statements a number of questions will be put to each participant.

Invited Speakers

Mr Siim Kallas, Vice-President and Commissioner for Transport, European Commission

Mr Georg Kapsch, CEO, Kapsch TrafficCom AG, Austria

Mr Scott Belcher, President and CEO, ITS America

Mr Greg Winfree, Deputy Administrator, Research and Innovative Technology Administration, U.S. Department of Transportation, USA

Mr Zhongze Wu, Chairman, ITS China

Mr Bambang Susantono, Vice Minister, Ministry of Transportation/President, ITS Indonesia, Republic of Indonesia

Plenary Session II – Converging technologies – converging mobility

Tuesday 23 October 2012, 09.00–10.30

Strauss Hall

It may seem that mobile and Internet technologies are developing rapidly while transport systems only improve slowly. However these two domains have started to converge and this is already bearing fruit. This session will present the state of the art in ITS communications and future Internet technologies, showing how these converge towards the Internets of Things, People and Services. Cloud computing can make physical infrastructure virtual, breaking down boundaries between systems and thus between organisations too.

Of course, the essence of ITS is the mobility of people, vehicles and goods. How can policy makers and businesses take full advantage of these opportunities offered by mobile communications, to imagine a new mobility? New mobile technologies will stimulate the growth of new types of ITS applications and services, based on pervasive connectivity and information. This session will explore the outlook for creating widespread deployment and a new mass market for cooperative mobility and advanced ITS. Speakers will address questions of ensuring user value and usability, sustainable business models, device and service interoperability and how to drive convergence amongst the many institutions, transport modes and data sources.

Master of Ceremonies

Ms Melinda Crane

Invited Speakers

Mr Vivek Badrinath, CEO, Orange Business Services, France

Mr Paolo Colella, Vice-President Consulting & System Integration, Ericsson AB, Sweden

Mr Tae-ho Doh, Director General, Road Policy Bureau, Ministry of Land, Transport and Maritime Affairs, Korea

Mr Adam Game, CEO, Intelematics, Australia

Andreas J.M. Ostendorf, Global Director Vehicle Homologation & Compliance / Vice President, Sustainability, Environment and Safety Engineering, Ford, Germany

Conclusion Session, Plenary Session III and Closing Ceremony

Friday 26 October 2012, 13.30–15.40

Strauss Hall

Master of Ceremonies

Ms Melinda Crane

Conclusion Session

Chief Rapporteur (Eric Sampson) will present the Congress conclusions based on inputs prepared by a team of Rapporteurs drawn from all regions.

Plenary Session III – Global connectivity revolution

The Global Connectivity revolution has begun. This closing session will address the powerful global transformation which is taking place in our society and the implications that this revolution "every citizen and every car digital" will have for future transport solutions. The session will examine global societal trends such as climate change, growing congestion, increasing urbanisation, an aging population, and review how the new connectivity paradigm and content and data explosion are redefining the role of the vehicle and of personal mobility. Connectivity will invigorate the development of innovative concepts for providing transport solutions to our economy and citizens and it will create new markets and integrate new competitors in the transport sector. The distinguished speakers in the session will elaborate on both the benefits and the new challenges for transport generated by a growing number of connected vehicles and travellers.

Invited Speakers

Ms Neelie Kroes, Vice-President and Commissioner for the Digital Agenda, European Commission

Mr Hiroyuki Watanabe, Chairman, ITS Japan, Japan

Mr Ton Steenman, Vice President Intel Architecture Group, General Manager Intelligent Systems Group, USA

Closing Ceremony

Join your colleagues and friends by taking part in this session which will captivate you by summarising the key moments that made the ITS Vienna 2012 Congress unique!

Electronic Cello Music

Best Papers Award

ERTICO Video Award

Video presentations and invitations to 20th ITS World Congress (Tokyo), and 21st ITS World Congress (Detroit), Mr James Barbaresso, Chair 2014 World Congress

Passing the Globe Ceremony (Vienna – USA – Tokyo)

Executive Sessions

ES01 – Communication technologies: comfortable and resilient system for the next generation

Tuesday 23 October 2012, 14.00–15.30

Strauss 2 Room

The use of connected devices has become a part of everyday life, and connection on the move is becoming a central expectation for users. Flexible, future-proof and cost-efficient connectivity will be delivered by the new communication and network technologies for example LTE. But resilience is also becoming one of the most important aspects of communication technology so that a network remains viable despite disasters such as earthquakes. This session will discuss how a communication network can provide comfortable connectivity for everyday life while also being highly resilient in a disaster.

Invited Chairman

Mr Satoshi (Sam) Oyama, Senior Researcher, ITS Group, Association of Radio Industries and Businesses – ARIB, Japan

Invited Speakers

Mr Eduardo Esteves, Vice President of Technical Marketing, Qualcomm, USA

Mr T. Russell Shields, Chair, Ygomi LLC, USA

Mr Tomoyuki Tanuma, Director, Ministry of Internal Affairs and Communications – MIC, Japan

Mr Peter McCombs, Chairman of the Board, Traffic Design Group Ltd, New Zealand

Mr Johannes Springer, Head of Technology and Business Development, T-Systems International GmbH, Germany

Mr Alan Bristow, Director, Traffic Directorate, Transport for London – TfL, United Kingdom

ES02 – ITS and the economy – doing more for less

Tuesday 23 October 2012, 14.00–15.30

Strauss 3 Room

ITS deployment is vital for improved efficiency, safety, sustainability, mobility and environmental performance. With resources continuing to be limited, a central issue is how to link investment and performance and defining the mechanisms that connect the two. Understanding the contribution that ITS makes to society and to economic growth is key to obtaining continued investment. Public sector speakers will address the current public funding situation, while private sector panellists will outline the criteria that would attract private funding.

Invited Chairman

Mr Peter Sweatman, Director, University of Michigan Transportation Research Institute – UMTRI, USA

Invited Speakers

Mr Kirk Steudle, President, AASHTO & Director, Michigan DOT, USA

Ms Linda Watson, President and CEO, Capital Metropolitan Transportation Authority, USA

Mr Kyong Soo Chon, Professor, Seoul National University, Korea

Mr Martin Leak, Managing Director, Resolve Group Ltd, New Zealand

Mr Cees de Wijs, Group President, International Transportation and Government, Xerox, The Netherlands

Mr Fotis Karamitsos, Acting Deputy Director General, European Commission, DG MOVE

ES03 – Mobile device data as a source of traveller behaviour information

Tuesday 23 October 2012, 16.00–17.30

Strauss 2 Room

The widespread adoption of internet-linked devices – smartphones, tablets, laptops, vehicles – has changed the way we communicate, work, shop, and our travel behaviour. Information about travel patterns derived from the movements of millions of smartphones opens the way for new transport policies to help to reduce greenhouse gases and achieve a more sustainable, more liveable society. This session will present views from both ICT and mobility sectors on how information and technology developments such as "Cloud Computing", new services, potential industry strategies and business policies will help us keep our cities alive.

Invited Chairman

Mr Jaehak Oh, Vice President, The Korean Transport Institute – KOTI, Korea

Invited Speakers

Mr Robert Denaro, Vice President Advanced Driver Assist Systems Product Marketing, Nokia, USA

Mr Barry J. Glick, Chief Executive Officer, ALK Technologies, Inc., USA

Mr Mark Hsiao, Vice President, International Integrated Systems, Inc., Chinese-Taipei

Mr Passakon Prathombutr, Director, National Electronics and Computer Technology Center, Thailand

Mr Carlo van de Weijer, Vice-President, Intelligent Transportation Systems, TomTom International BV, The Netherlands

Mr Eric-Mark Huitema, Smarter Transportation Leader Europe/SME, IBM, The Netherlands

ES04 – Elements of ITS policy

Tuesday 23 October 2012, 16.00–17.30

Strauss 3 Room

In the past, policy related to ITS has been generated around technology, architecture and stakeholder roles. The issues associated with the "why" of policy have not been widely discussed. This session will cover policy developments at national and regional levels. The specifics will focus on the value ITS provide to the citizens and what policy senior officials can take to ensure that an efficient, affordable ITS value proposition is enjoyed by transportation users and others.

Invited Chairman

Mr Gerry Conover, Managing Director, PRC Associates, USA

Invited Speakers

Ms Valerie Briggs, Team Leader ITS Policy, Research and Innovative Technology Administration – RITA, ITS Joint Program Office, US DOT, USA

Mr John Horsley, Executive Director, American Association of State Highway Transportation Officials – AASHTO, USA

Mr Chin Kian Keong, Group Director, Land Transport Authority, Singapore

Mr Mutsuharu Nakajima, Counselor for Policy planning coordination, Technology Policy Office, Cabinet Secretariat, Japan

Mr Olivier Onidi, Director, European Commission, DG MOVE

Mr Ruud van Heugten, Transport Minister, Noord-Brabant Region, The Netherlands

Executive Sessions

ES05 – Traffic management infrastructure deployment models

Wednesday 24 October 2012, 11.00–12.30

Strauss 2 Room

This session will explore different views of ways to fund, deploy and operate a national traffic management infrastructure for safety, security and mobility. Issues to be examined include 1) how to make traffic management more dynamic and real-time, 2) how traffic management systems and practices can be made cooperative across jurisdictions and 3) whether the deployment of traffic management infrastructure is a segment ripe for private investment.

Invited Chairman

Mr John Funny, President, Grice Consulting Group LLC, USA

Invited Speakers

Mr Jeff Lindley, Associate Administrator for Operations, Federal Highway Administration – FHWA, US DOT, USA

Mr Abbas Mohaddes, President & CEO, Iteris, Inc., USA

Mr Morio Fukuda, Director for ITS, National Police Agency, Japan

Mr Glenn Geers, Technology Director, Infrastructure, Transport & Logistics, National ICT Australia Ltd – NICTA, Australia

Mr Jean Mesqui, Executive Director, ASFA, France

Mr Herbert Kasser, Secretary General, Federal Ministry for Transport, Innovation and Technology – bmvit, Austria

ES06 – Future trends in city mobility

Wednesday 24 October 2012, 11.00–12.30

Strauss 3 Room

The world's population is steadily increasing and already over 60% of us live in cities where the constraints on infrastructure and impact of greenhouse gases are most acute. Moreover the population is ageing and many older people have special mobility needs. Different cities will develop different solutions to these problems but the challenges are very similar. Is there a common strategy for city mobility? Will phasing out conventionally fuelled vehicles really improve air quality overall? This session will examine the steps being taken around the world to see what are the better options and how far we can learn from each other.

Invited Chairman

Mr Pawel Stelmaszczyk, Head of Unit, European Commission, DG MOVE

Invited Speakers

Ms Sue Zielinski, Managing Director, Sustainable Mobility & Accessibility Research & Transformation, University of Michigan Transportation Research Institute – UMTRI, USA

Mr Randell Iwasaki, Executive Director, Contra Costa Transportation Authority, USA

Mr Atsushi Yano, Managing Director, Sumitomo Electric Industries, Ltd., Japan

Dr Elly Sinaga, Director, Ministry of Transportation / Secretary-General, ITS Indonesia, Republic of Indonesia

Mr Jean-Marc Rouffet, Chef de service « Système Equipement Patrimoine Transport », Communauté Urbaine de Bordeaux, France

Mr Vito Mauro, Member of the Supervisory Board, SWARCO AG, Italy

ES07 – International ITS cooperation – connected vehicles

Wednesday 24 October 2012, 14.00–15.30

Strauss 2 Room

There has been much research, and many trials/demonstrations, world-wide on the scope for achieving safety, mobility and environmental benefits from connected vehicle systems. The emphasis is now moving to deployment and business cases. For this to be successful a range of stakeholders need to become involved to help develop visions of future ITS societies and understand what will impact on users' acceptance and willingness to pay. In this session the various joint international working activities will be presented against the background of the Japan–USA–EU trilateral ITS Cooperation Framework which supports harmonisation of services and adoption of global standards.

Invited Chairman

Chairman from Japan

Invited Speakers

Mr Brian Cronin, Team Leader ITS Research, ITS Joint Program Office, Research and Innovative Technology Administration, US DOT, USA

Mr Dick Schnacke, Vice President, TransCore, USA

Mr Yasuhiro Okumura, Director, Road Bureau, Ministry of Land, Infrastructure, Transport and Tourism – MLIT, Japan

Mr Xiaojing Wang, Director of National ITS Center, Chief Engineer of Research Institute of Highway, Ministry of Transport, China

Mr Juhani Jääskeläinen, Adviser for ICT for Transport & Energy, European Commission, DG CONNECT

Mr Hermann Meyer, CEO, ERTICO – ITS Europe

ES08 – Making multimodality the pillar of modern life

Wednesday 24 October 2012, 14.00–15.30

Strauss 3 Room

As our populations increase we need to re-think our transport provision and move from predominantly single-mode to a multi-modal model that maximises use of the available data and network capacity and is also compatible with economic and social systems. We need to understand how to prompt behavioural change to encourage mobility which is much more than just transport. This session will examine some key questions e.g. What will future services, vehicles and infrastructures look like? How will e-ticketing and door-to-door solutions influence mobility behaviour? What are the most promising technologies to influence mobility policies?

Invited Chairman

Mr Bruno Simon, Location and Commerce, Nokia, Germany

Invited Speakers

Mr Jeff Lindley, Associate Administrator for Operations, Federal Highway Administration, US DOT, USA

Mr Ken Philmus, Senior Vice President, Transportation and Local Government, Xerox, USA

Mr Y. John Sun, Chairman, THI Consultants, Inc., Chinese-Taipei

Prof Nan Zou, Professor, Shandong University, China

Ms Gabriele Domschitz, Member of the Management Board, Wiener Stadwerke Holding AG, Austria

Ms Barbara Lenz, Head of Transport Research Institute, German Aerospace Center – DLR, Germany

Executive Sessions

ES09 – Global vehicle safety systems

Thursday 25 October 2012, 11.00–12.30

Strauss 2 Room

ITS is leading to major improvements in road safety using autonomous vehicle technologies, as well as vehicle–vehicle or vehicle–infrastructure connected systems. These products have left the research lab and are now at the stage of real use. In this session a mixed panel of automotive manufacturers, safety advocates and regulators will discuss and survey the activities in the three regions, with particular respect to how V2X services might help impaired drivers and the risk that drivers might become over-reliant on systems. The session will also consider how safety infrastructure should be deployed and how to promote institutional systems and user acceptance.

Invited Chairman

Mr Yousuke Akatsu, Senior Staff, Nissan Motor Co., Ltd., Japan

Invited Speakers

Mr John Maddox, Associate Administrator – Vehicle Safety Research, National Highway Traffic Safety Administration – NHTSA, US DOT, USA

Mr James Sayer, Associate Research Scientist, University of Michigan – UMTRI

Mr Ryosuke Itazaki, Director, Road Transport Bureau, Ministry of Land, Infrastructure, Transport and Tourism, Japan

Mr Mamoru Sekiguchi, Manager, Electronic Product Design Department, SUBARU Engineering Div., Fuji Heavy Industries Ltd. Japan

Mr Luca Pascotto, Director of Mobility, FIA Region I

Mr Andreas J.M. Ostendorf, Global Director Vehicle Homologation & Compliance / Vice President, Sustainability, Environment and Safety Engineering, Ford, Germany

ES10 – ITS enabling future sustainable mobility

Thursday 25 October 2012, 11.00–12.30

Strauss 3 Room

There is global recognition of the need for transport systems that reduce emissions, are sustainable, integrate all modes, and are user-friendly in order to underpin economic progress, enhance competitiveness and offer high quality mobility services while using resources more efficiently. This session will bring together representatives from industry, policy, research, and infrastructure providers to share their views and expectations about the potential of ITS and Electro Mobility to deliver effective solutions to achieve a sustainable future mobility. It will demonstrate the key role of ITS as an enabler for public acceptance and large-scale market development.

Invited Chairman

Mr Christian Rousseau, Mobility & Transport Policy Director, Renault, France

Invited Speakers

Mr Pete K. Rahn, Senior Vice President, HNTB Corporation, USA

Mr Steve Heminger, Executive Director, Metropolitan Transportation Commission, USA

Mr Satoshi Inoue, Director, Ministry Economy, Trade and Industries, Japan

Mr Yii Der Lew, Group Director, Corporate Planning & Research, Land Transport Authority, Singapore

Mr András Siegler, Director, European Commission, DG RTD

Mr Helmut O. List, Chairman & CEO, AVL, Austria

ES11 – New concepts of smart mobility

Thursday 25 October 2012, 14.00–15.30

Strauss 2 Room

This session will discuss the direction of development and deployment of the next generation of vehicle systems. Autonomous vehicle R&D is continuing around the world. In addition, electric vehicle deployment is leading to the creation of a broad network for vehicle and infrastructure connectivity. Issues to be discussed will include the technology challenges being addressed as well as the policy barriers to deploying autonomous vehicles.

Invited Chairman

Mr Steve Dellenback, Director, Southwest Research Institute – SWRI, USA

Invited Speakers

Mr Nady Boules, Director Electrical & Controls Integrate Lab, General Motors, USA

Mr Susumu Umemura, General Manager, Future Project Division, Toyota Motor Corporation, Japan

Mr Jan-Ove Östensen, SVP Advanced Technology & Research, Volvo Technology, Sweden

Mr Leo Kusters, Managing Director Transport & Mobility, Netherlands Organisation for Applied Scientific Research – TNO, The Netherlands

Speaker from Asia Pacific

Speaker from the Americas

ES12 – The implication for ITS of new GNSS services

Thursday 25 October 2012, 14.00–15.30

Strauss 3 Room

Until recently the main application of Global Navigation Satellite Systems (GNSS) has been vehicle navigation but new services are emerging e.g. dangerous goods transport monitoring, traffic management. A new generation of GNSS is being deployed in which positioning is free, accurate and potentially having a legal value. At the same time vehicles are increasingly becoming “connected” thereby stimulating innovative applications and business models. This session will analyse these trends around the world and discuss the implications for ITS. Policy makers and leading automotive experts will share their vision for the future, present new business models and outline new opportunities.

Invited Chairman

Mr Gard Ueland, President, Galileo Services Association, Norway

Invited Speakers

Mr Andreas Mai, Director Automotive North America Cisco Systems, USA

Mr Michel Bosco, Deputy Head of Unit, European Commission, DG ENTR

Mr Andy Green, CEO, Logica, United Kingdom

Mr. Hiroyuki Noda, Senior Coordinator, Office of National Space Policy, Cabinet Office, Japan

Speaker from the Americas

Host Sessions

Attracting a new generation – New skills for new jobs in the transport sector

Wednesday 24 October, 09.00–10.30

Strauss 2 Room

Well educated engineers and researchers are key factors for building and sustaining the competitiveness of companies and long-term economic growth. The session aims to compare the industry perspective of interdisciplinary skill needs with the state of the art in the education and training sector and present strategic measures to ensure the optimal level of competencies and skills. In addition, experts will present a variety of approaches to raise the awareness among young people for transport as an attractive career field.

Invited Moderator

Ms Sarah Krautsack, Programme Officer, Federal Ministry of Transport, Innovation and Technology – bmvit, Austria

Invited Speakers

Ms Katja Schechtner, Head of Business Unit Dynamic Transportation Systems, Austrian Institute of Technology – AIT, Austria

Ms Petra Wagner-Luptacik, Senior Expert Advisor, Austrian Institute of Technology – AIT, Austria

Ms Anke Kovar, Director, School Lab Braunschweig, German Aerospace Centre – DLR, Germany

Mr Jugdutt (Jack) Singh, Director – Centre for Technology Infusion, La Trobe University, Australia

Mr Peter F. Sweatman, Director, Transportation Research Institute, University of Michigan – UMTRI, USA

ITS for the public – Capacity building for a smarter transportation system

Friday 26 October, 09.00–10.30

Strauss 3 Room

If we successfully want to meet the challenge of creating intermodal, efficient, environmentally friendly, barrier-free and affordable mobility of the future, ITS are a key factor to success. The rather abstract term “Intelligent Transport Systems” (ITS) is only vaguely associated with “moving smarter” neither by society at large nor by the individual user. A positive image needs to be created early on, together with new and attractive visions of mobility.

Invited Moderator

Ms Petra Wagner-Luptacik, Senior Expert Advisor, Austrian Institute of Technology – AIT, Austria

Invited Speakers

Mr Hans-Joachim Schramm, Assistant Professor, Institute for Transport and Logistics Management, WU Wirtschaftsuniversität Wien, Austria

Ms Irene Feige, Institute for Mobility Research (ifmo) – BMW Group, Germany

Mr Alexander Renner, Chief Technology Officer, Siemens AG, Germany

Ms Claudia Riegler, Social Media, Wiener Linien GmbH & Co KG, Austria

Ms Karoline Iber, General Manager, Vienna Children's University, Austria

Ms Susanne Harris, Chief Executive Officer, ITS Australia, Australia

Special Interest Sessions

SIS01 – From government to governance – A modern administration of ITS for the benefit of the end users

Tuesday 23 October 2012, 11.00–12.30

Stolz 1 Room

Co-operation between private and public sectors in the field of intelligent transport systems and services as a prerequisite to contribute to fulfil the climate, safety, mobility, growth and sustainability goals set by governments and politicians. Modern administrations, collaboration and cooperation between enterprises and public sector, efficient and robust transport systems are all a prerequisite for welfare and continued growth. ITS will play a much greater role in this context than it does today. It involves, not least, better utilisation of the existing resources and capacity in the transport system, offering new and attractive solutions for both passenger and goods multimodal transport and employing a variety of regulatory measures and incentives. Modern public administration will therefore plan for and deploy these ITS solutions and services for the benefit of the citizens.

Organiser

Roberto Bauducco, Director, Head of ITS Office, Swedish Transport Administration – STA, Sweden

Invited Moderator

Hans Rode, Chair ITS Council, Government Offices, Sweden

Invited Speakers

Main speaker: Catharina Elmsäter-Swärd, Minister for infrastructure, Ministry of Enterprise, Energy and Communications, Sweden

Charlotte Brogren, Director General, Swedish Agency for Innovation Systems, Sweden

Gunnar Malm, Director General, Swedish Transport Administration – STA, Sweden

Rossella Panero, President TTS Italia, Managing Director 5T, Italy

Fotis Karamitsos, Acting Deputy Director General, European Commission, DG MOVE

Lars Jernbäcker, Director, Business Area Security and Defence Solutions, Saab Group, Sweden

SIS02 – Realisation of new vehicle cloud concept and smartphone-ITS

Tuesday 23 October 2012, 11.00–12.30

Stolz 2 Room

Recently, the integration of transportation and Smartphone is accelerated rapidly, and also, new telematics services are expected to come out by networking vehicles to cloud computing.

In this session, we would like to explain the progress of a Japanese government project, "Next-generation Vehicle Cloud Project", as well as a model of vehicle-society architecture that every vehicle can join.

Furthermore, we would like to discuss the issue of "vehicle information security" which has appeared with networking vehicles, and how "Next-generation vehicle information platform", which is an open platform, should be with consideration of information security.

Organiser

Naoki Tokitsu, President, Internet ITS Consortium, Japan

Invited Moderator

Makoto Maekawa, General Executive Expert ITS Business Development Centre, NEC Corporation, Japan

Invited Speakers

Representative from Internet ITS Consortium

Representative from Fujitsu, Japan

Representative from Hitachi, Japan

Speaker from USA

Speaker from Europe

Special Interest Sessions

SIS03 – Multi-modal journey made easy

Tuesday 23 October 2012, 11.00–12.30

Lehar 1 Room

Multimodal traveller information services have been implemented in many cities to facilitate multimodal journeys. The recent fast growing deployment of smart phone and wireless communication offers a great opportunity for collecting and delivering real-time information throughout an entire trip. Many transport operators, cities and information providers cooperate in development and implementation of information services for multimodal journeys for pre-trip planning and en-route support. This session invites cities and information providers to present their achievements in multimodal information provision in various cities and their views on future opportunities of sustainable motilities.

Organiser

Yanying Li, Senior Project Manager, ERTICO – ITS Europe

Invited Moderator

Patrick Mercier-Handisyde, Head of Sector, European Commission, DG RTD

Invited Speakers

Seyma Ulucay, Chief Design Engineer, ISBAK, City of Istanbul, Turkey

José A. Teixeira, Director of Innovation, City of Santander, Spain

Paolo Squillante, Business Development Manager, Thetis S.p.A., Italy

Yanying Li, Senior Project Manager, ERTICO – ITS Europe

Vassilis Mizaras, Managing Director, Infotrip, Greece

Manuel Milli, Project Manager, SWARCO Mizar, Italy

SIS04 – A better image for safety enforcement

Tuesday 23 October 2012, 11.00–12.30

Lehar 2 Room

The challenge of improving road safety is just as important now as it was 18 months ago when the United Nations launched its Decade of Action for Road Safety (2011–2020). A key benefit of ITS deployment is improved information, management, and incident awareness response and road safety. Speakers will illustrate the contribution of ITS to achieving policy objectives and how through education and enforcement can result in more compliance resulting in community wide benefits.

Organiser

Richard Harris, Solution Director International Transportation and Government, Xerox, United Kingdom

Invited Moderator

Eva Molnar, Director, Division of Transport, UNECE

Invited Speakers

Neal Skelton, Head of Professional Services, ITS United Kingdom, United Kingdom

Amitabh Bajpai, President, AITS India, India

Robert De Beukelaer, Solution Delivery Director, Xerox, The Netherlands

Eva Lundberg, Project Manager, Swedish Transport Administration – STA, Sweden

SIS05 – The fully connected vehicle – International collaboration mandatory

Tuesday 23 October 2012, 11.00–12.30

Lehar 3 Room

Significant global investments are being made to equip travellers, private or commercial, with the necessary tools to save lives and increase throughput. The prolonged economic downturn has made solutions more urgent as governments decrease their investments while remaining internationally competitive. In order for the connected vehicle concept to succeed, there must be consensus on standardisation, organisation, and governance. This session brings together thought leaders and government policy makers to clarify objectives, propose solutions, begin urgent dialogue. Silos must be prevented if the Connected Vehicle concept is to reach full fruition.

Organiser

Carl Kuhnke, Executive Director, ITS Canada, Canada

Invited Moderator

Susan Spencer, Director ITS, Transport Canada, Canada

Invited Speakers

Michael Noblett, Associate Partner, IBM and Chair ISO TC 204, USA

Bob Burrows, President, G4 Apps Inc, USA

Thomas Stottan, CEO, Audio Mobil Elektronik GmbH, Austria

Brian Cronin, Team Leader Research, ITS Joint Program Office, US DOT, USA

Steve Sprouffske, Kapsch TrafficCom Inc, USA

Speaker from Asia Pacific

SIS06 – Emerging ITS strategies and sustainability

Tuesday 23 October 2012, 11.00–12.30

Lehar 4 Room

The challenge of reducing energy use and emissions is reaching a critical stage in light of climate change. Several relatively recent ITS strategies – such as Integrated Corridor Management (ICM) and Managed Motorways – provide dynamic management of recurrent and non-recurrent congestion through the use of integrated systems with new technology and automation. This session explores how these emerging ITS strategies can also help reduce levels of transport-related energy consumption and greenhouse gas emissions, in addition to providing mobility and safety benefits.

Organiser

John J. Funny, President & CEO, Grice Consulting Group LLC, USA

Invited Moderator

Louis G. Neudorff, P.E., Principal Technologist – ITS Transportation Business Group, Cham Hill, USA

Invited Speakers

Hesham Rakha, Professor, CEE Dept. | Director, Center for Sustainable Mobility, Virginia Tech Transportation Institute, USA

Ulrich Seewer, Department of Public Construction, Traffic and Energy, Switzerland

John Hemiup, P.E. Project Manager, Alameda County Transportation Commission, USA

Special Interest Sessions

SIS07 – Regional cooperative ITS – Concepts, deployment, solutions

Tuesday 23 October 2012, 11.00–12.30

Schubert 1 Room

Between cities and their surroundings there is strong interaction, especially in transport and mobility affairs. Intelligent Transport Systems (ITS) provide impressive possibilities in that respect, if we manage to use and coordinate them efficiently and cooperatively.

This Special Session will cover a few outstanding examples of concepts, deployment strategies, solutions and applications taking precisely that approach in various regions with their specific situations. All of our contributors are experts who have held leading positions in the projects presented.

Organiser

Klaus Heimbuchner, Project Development / PR, Verkehrsverbund Ost-Region VOR GmbH / ITS Vienna Region, Austria

Invited Moderator

Bernhard Engleder, Head of the Steering Committee, ITS Vienna Region, Austria

Invited Speakers

Martin Müllner, Head of the Project VAO – Verkehrsauskunft Österreich, ASFINAG, Austria

Helmut Winhofer, Head of the Project qando, Wiener Linien, Austria

Hans Fiby, Head of the Project, ITS Vienna Region, Austria

Christian Kainz, Head of Project, ITS Austria West, Austria

Marco Boero, Head of Division Research and Innovation, Softeco, Italy

Tibor Schlosser, Head of Project, ITS Slovakia, Slovakia

Jürgen Neugebauer, Consultant, Intrasy, Germany

Sumio Ogasawara, Assistant Director, Traffic Facilities and Control Division, Traffic Bureau, Tokyo Metropolitan Police Department, Japan

Karol Kuester, Principal Program Coordinator/Traveller Information, Metropolitan Transportation Commission San Francisco Bay Area, USA

SIS08 – ITS certification towards sustainable deployment

Tuesday 23 October 2012, 11.00–12.30

Schubert 2 Room

Running connected ITS applications requires actually 100% reliable communication services between vehicles, roadside systems and backend infrastructure.

Using certification is a good policy to give OEMs, vendors and users confidence about the liability of systems for connected vehicles and infrastructure. The availability of suitable conformance and interoperability tests enables the application of appropriate certification procedures for the cooperative systems.

This session aims to present concrete use cases to show the benefit of testing and certification.

Organiser

Sebastian Müller, Testing Expert, Testing and Interoperability, European Telecommunications Standards Institute – ETSI, France

Invited Moderator

Martin Arndt, Technical Officer, European Telecommunications Standards Institute – ETSI

Invited Speakers

Francois Fischer, Project Manager, ERTICO – ITS Europe

Jürgen Grossmann, Project Manager, Fraunhofer FOKUS, Germany

Sebastian Müller, Testing Expert, Testing and Interoperability, European Telecommunications Standards Institute – ETSI

Peter Dutrieux, Global account manager, DEKRA, The Netherlands

Bev Marks, Executive Director, TISA

SIS09 – IBEC – How to use ITS evaluation to accelerate deployment

Tuesday 23 October 2012, 11.00–12.30

Schubert 3 Room

This important session will feature well-informed international speakers who will debate how best to leverage evaluation results to aid ITS deployment. They will explore and demonstrate the importance of evidence based ITS investment as we strive to widen and accelerate intelligent sustainable transport deployment. They will consider why the ITS message is still not getting the message across, why ITS business case development is so challenging and why we need to identify how ITS supports the economy.

Organiser

Richard Harris, Solutions Director International Transportation and Government, Xerox, United Kingdom

Invited Moderator

Pirkko Rämä, Principal Scientist, Technical Research Centre – VTT, Finland

Invited Speakers

Susan Harris, Chief Executive Officer, ITS Australia, Australia

Susan Spencer, Director Intelligent Transportation Systems Policy, Transport Canada, Canada

Meng Lu, Program Manager International, Dutch Institute for Advanced logistics, The Netherlands

Charlotte Vithen, Director Roads & Traffic, Road Directorate, Denmark

Caroline Visser, Road Finance & ITS Programme Manager, International Road Federation, Switzerland

SIS10 – Cybersecurity and the impact on the Intelligent Transportation System

Tuesday 23 October 2012, 11.00–12.30

Schubert 4 Room

With the growing emphasis on cybersecurity, system vulnerability and denial of service, this session will share some recent experiences and discuss the risk to a modern transportation system. Participants will also discuss the severity of the risk and how agencies may protect themselves against these threats.

Organiser

Steve Dellenback, Director R&D – Intelligent Systems, Southwest Research Institute, USA

Invited Moderator

Steve Dellenback, Director R&D – Intelligent Systems, Southwest Research Institute, USA

Invited Speakers

Hiro Onishi, Alpine Electronics Research of America, Inc., USA

Paul Avery, Group Leader R&D – Intelligent Vehicles, Southwest Research Institute, USA

Andre Weimerskirch, Managing Director, Escrypt, USA

Ileri Ibarra, Functional Safety Consultant, MIRA Ltd, USA

Manabu Nakano, Information-technology Promotion Agency, USA

Special Interest Sessions

SIS11 – ITS radio communication for vehicle safety and sustainability

Tuesday 23 October 2012, 11.00–12.30

Schubert 5 Room

We have expected that ITS radio communication would play an important role in safety driving and sustainable development. In addition to the projects "5.8/5.9 GHz band DSRC/WAVE" and "79GHz band high-resolution radar", Japan also started the project "700 MHz ITS systems for vehicle-to-vehicle communications".

In this session experts at ITS radio communications, who come from the United States, Europe and Japan as well as the automobile manufacturer, will report the recent status of policies, technologies and standards development.

Afterward, we will figure out and dissect current issues regarding our international harmonisation of related projects and discuss solutions to each.

Organiser

Hiroki Taniguchi, Deputy Director, Ministry of Internal Affairs and Communications – MIC, Japan

Invited Moderator

Satoshi (Sam) Oyama, Senior Researcher, Association of Radio Industries and Businesses – ARIB, Japan

Invited Speakers

Sadayuki Tsugawa, Professor, Meijo University, Japan

Hiroki Taniguchi, Deputy Director, Land Mobile Communications Div., Radio Department, Telecommunications Bureau, Ministry of Internal Affairs and Communications – MIC, Japan

Norikazu Endo, Director, Member of the Board, Toyota Info Technology Centre Co., Ltd., Japan

Soeren Hess, Chairman, ETSI TC-ITS, Denmark

Justin McNew, VP ITS Strategy & Commercialisation, Kapsch TrafficCom U.S. Corp., USA

Martin Kunert, Senior Expert on Radar Systems and Frequency Regulation, Advanced Engineering, Robert Bosch GmbH, Germany

SIS12 – How ITS systems will "speak" about sustainability

Tuesday 23 October 2012, 11.00–12.30

Schubert 6 Room

The deployment of ITS in the perspective of sustainable mobility policies creates new opportunities to inform the end users about the consequences of their choices. ITS systems will "speak" about mobility and sustainability. In an extremely diversified context, a difficult question is to find the right organisation to assure that the content of the many speeches will be meaningful and consistent. Taking the example of CO₂ emissions linked with transport operation, the panellists will discuss about the expected new needs of information at different territorial levels and in different circumstances.

Organiser

Jean-Francois Janin, ITS Task Force Manager, Ministry of Ecology, Sustainable Development, Transport and Housing, France

Invited Moderator

Jean-Francois Janin, ITS Task Force Manager, Ministry of Ecology, Sustainable Development, Transport and Housing, France

Invited Speakers

Thomas E. Kern, Executive Vice President, ITS America, USA

Yasuhiro Okumura, Director of ITS Policy and Program Office, Road Bureau, Ministry of Land, Infrastructure, Transport and Tourism – MLIT, Japan

Xiaojing Wang, Director, National ITS Centre, Ministry of Transport, China

Nour-Eddin El Faouzi, Head of Transport and Traffic Engineering Laboratory, Joint Unit of IFSTTAR and ENTPE, France

Theo Arentze, Associate Professor, Eindhoven University of Technology, The Netherlands

SIS13 – Probes for European wide traffic information

Tuesday 23 October 2012, 11.00–12.30

Business Suite 1 Room

European wide real time traffic services mainly based on probe data are available today. These services offer a competitive solution for many potential public and private customers, but also challenges regarding ensuring the quality.

European wide real time traffic services are changing the division of work. Representatives of public organisations and automotive industry will present their needs and quality requirements and compare probe data with other sources. They will both present their quality assurance methods for procuring probe data. Suppliers will present products and their quality assurance methods, data sources used and handling of fusion of data.

Organiser

Jens Peder Kristensen, CEO, KeyResearch, Denmark

Invited Moderator

Jens Peder Kristensen, CEO, KeyResearch, Denmark

Invited Speakers

Charlotte Vithen, Director Traffic and Roads, Danish Road Directorate, Denmark

Peter Krootjes, Senior Traffic Engineer, TomTom, The Netherlands

Andrew Hart, Head of Advanced Research Division, SBD, United Kingdom

Rick Schuman, Vice President of Public Sector, Inrix, USA

Ulrich Just, Head of unit "Strategic transport planning", Ministry for the environment, construction and transport in the Federal State of Bremen, Germany

SIS14 – Road transport related air pollution and carbon footprint monitoring and mitigation

Tuesday 23 October 2012, 11.00–12.30

Business Suite 2 Room

Road transport has become the main source of carbon emission and air pollution, particularly in urban areas. Carbon emission and air pollution from road transport sector have significant impact on the global climate change and human health. To monitor the emission and pollution, to understand the relations between emission, air pollution and road transport, thus to mitigate the negative impacts are one of key challenges transport professionals face. Great efforts have been invested into monitoring carbon footprint and air pollution. Such monitoring data has been analysed together with traffic data in order to develop a sound understanding of the impact of road transport on air quality and emission. Other data, such as personal travel behaviour, has also been collected and analysed in order to form a mitigation strategy to promote low carbon mobility. This session will present innovative technologies of environmental monitoring, road traffic and air pollution modelling, and introduce low carbon transport policies and mobility practice in Asian countries, e.g. China and Vietnam. This session aims at dissemination of the innovative technologies in this field, and best practice. This session will also promote more sustainable mobility and raise awareness among transport professionals.

Organiser

Ralf Willenbrock, Business development Manager, Deutsche Telekom RO China, China

Invited Moderator

Yanying Li, Senior Project Manager, ERTICO – ITS Europe

Invited Speakers

Ralf Willenbrock, Business development manager, DT RO China, China/Germany

Fengxiang Qiao, Associate Professor, South Texas University, USA

Martin Ruhe, Project Manager, German Aerospace Centre – DLR, Germany

Dennis Horch, Programme Manager, GIZ, Germany/China

Michael Ortgiese, Vice-president, PTV AG, Germany

Special Interest Sessions

SIS15 – Intelligent infrastructure with extended applications of DSRC technology

Tuesday 23 October 2012, 11.00–12.30

Business Suite 3/4 Room

Many countries have established the system of Electric Toll Collection (ETC) by the application of the technology of Dedicated Short-Range Communications (DSRC). However, except the ETC system, the latest tendency shows that the infrastructure could be more intelligent with the extended applications of DSRC technology.

Organiser

Weiyun Jiao, Department Manager, National ITS Centre, China

Invited Moderator

Bin Li, Professor, Research Institute of Highway, Ministry of Transport, China

Invited Speakers

Shoichi Suzuki, Senior Researcher, ITS Division, National Institute for Land and Infrastructure Management, Ministry of Land, Infrastructure, Transport and Tourism – MLIT, Japan

Xianghui Song, Professor, National ITS Centre, China

Knut Evensen, Chief Technologist, Q-Free ASA, Norway

SIS16 – How ITS helped London deliver the 2012 Olympics and Paralympics games and a future outlook into future ITS deployment in large events

Wednesday 24 October 2012, 09.00–10.30

Stolz 1 Room

Experts from London's Traffic Directorate will report and demonstrate how they deployed ITS tools during the 2012 Olympic and Paralympics Games.

The key measures for success are that no athlete or official will arrive late for any events nor will any event be delayed due to delays on the road network; and the rest of London keeps moving during Games Time. This poses a major challenge to the already highly saturated strategic road network in London. To ensure success TfL has defined an Olympic Route Network (ORN) to cater for athletes' and officials' journeys and is making extensive use of state-of-the-art ITS.

The session will also look into the planned deployment of ITS in future large events with the presentations of Korea and Russia.

Organiser

Sally Thomas, Assistant to the Director, Traffic Directorate, Transport for London – TfL, United Kingdom

Invited Moderator

Alan Bristow, Director, Traffic Directorate, Transport for London – TfL, United Kingdom

Invited Speakers

Alan Bristow, Director, Traffic Directorate, Transport for London – TfL, United Kingdom

Tony Earl, Head of Network Performance, Traffic Directorate, Surface Transport, Transport for London – TfL, United Kingdom

John McCarthy, Cooperative Network Manager, Traffic Directorate, Transport for London – TfL, United Kingdom

Young-Jun Moon Ph.D., Director, The Korean Transport Institute – KOTI, Korea

Vladimir Kryuchkov, CEO, ITS Russia, Russia

SIS17 – EasyWay: The European platform to foster ITS implementations on TEN T roads

Wednesday 24 October 2012, 09.00–10.30

Stolz 2 Room

EasyWay is the unique European Project aiming at harmonised implementation of Intelligent Transport Systems (ITS) and Services across the TEN - T Road Network gathering 27 Member States and 3 other European countries. It is funded by the European Commission (DG Move) to address the major EU transport objectives and harmonise the deployment of Intelligent Transport Services (ITS). EasyWay project has produced 19 deployment guidelines (DG). EasyWay's objectives are fully consistent with both the national policies of the 27 EU Member States and with the priorities defined in the ITS Directive (2010/40/EC). Why did the EasyWay community elaborate this DG? What are the links between DGs and ITS Directive? What will be next step? All these questions will be raised with both partners involved in the project, representative of the EC and other stakeholders as well as USA point of view on ITS deployment project at a federal level.

Organiser

Malika Seddi, Director of International Affairs, Association des Sociétés Françaises d'Autoroutes - ASFA, France/EasyWay

Invited Moderator

Christer Karlsson, CEO, ITS Sweden, Sweden

Invited Speakers

Roberto Ferrazza, 2012 EasyWay Chairman, Italy

Fotis Karamitsos, Acting Deputy Director General, European Commission, DG MOVE

Kick Steudle, Executive Director, American Association of State Highway Transportation Officials - AASHTO, USA

Stefan Strick, EasyWay Supervisory Programme Board Chairman, Federal Highway Research Institute - BAST, Germany

Dean Herenda, EasyWay future Task Force, Slovenia

Klaus Schierhackl, Chairman, ASECAP, Austria

Michael Nielsen, Executive Director, IRU

SIS18 – Moving towards integrated smart corridors: A global necessity

Wednesday 24 October 2012, 09.00–10.30

Lehar 1 Room

Corridors are the lifeblood of international competitiveness. Smart corridors are a hot topic. What are they and how can they markedly improve safety, sustainability and effectiveness? In the Commercial Vehicle world this includes freight tracking electronic filing; automated inspection and authentication, seamless open source electronic transactions, terminal reservations, hazardous goods tracking. The Americas, Europe, and Asia all have major corridors. All have major new routes planned. This session will bring together planners, policy-makers and implementers to discuss the ideal smart corridor and its optimisation to bring together a true multi-modal architecture.

Organiser

Carl Kuhnke, Executive Director, ITS Canada, Canada

Invited Moderator

Scott Stewart, Chair ITS Canada and Managing Director, the IBI Group Inc., Canada

Invited Speakers

Richard Easley, President, E-Squared Engineering, USA

Susan Spencer, Director of ITS, Transport Canada, Canada

Susan Harris, CEO, ITS Australia, Australia

Robert Rausch, Vice President, Transcore Inc., USA

Special Interest Sessions

SIS19 – Pedestrian detection in various manners

Wednesday 24 October 2012, 09.00–10.30

Lehar 2 Room

Pedestrian protection is one of the key issues for safety as accidents involving pedestrians are still high in each region. Approach to detecting pedestrians varies in several categories. Detecting by image processing, active sensing such as RADAR and P2V communication with position information are the candidates. It can be done by on board unit or road side unit. Among these options, suitable measurements to detect pedestrians might differ according to situations. This session was first organised at ITS Orlando 2011. This 2nd round will cover various examples from the different aspects.

Organiser

Nobuyuki Ozaki, Senior Fellow, Toshiba Corporation, Japan

Invited Moderator

Nobuyuki Ozaki, Senior Fellow, Toshiba Corporation, Japan

Invited Speakers

Shunsuke Kamijo, Associate Professor, The University of Tokyo, Japan

Remy Bendahan, Computer Vision project Leader, IMRA Europe SAS, United Kingdom

Marc Tremblay, Vice President and COO, LeddarTech, Canada

A representative from Japan Aerospace Exploration Agency – JAXA, Japan

SIS20 – Connected mobility and market ecosystem

Wednesday 24 October 2012, 09.00–10.30

Lehar 3 Room

This special interest session will focus on the development and ecosystem of connected vehicles as part of the overall M2M (machine to machine) market. It will cover some of the latest important steps taken by players in the connected vehicle space, their latest research and challenges and priority settings going forward. The session will also highlight how players from different sectors, such as public authorities, vehicle manufacturers, Telco operators and system integrators, now are coming together to jointly cooperate around development and deployment of value added services to end user.

Organiser

Gabriel Westrell, Global Portfolio Director, Logica/Board member ITS Sweden, Sweden

Invited Moderator

Bengt Hallström, Analyst, Swedish Transport Administration – STA, Sweden

Invited Speakers

Bengt Hallström, Analyst, Swedish Transport Administration – STA, Sweden

Cyrille Ravier, Global Business Development Manager Automotive, Vodafone, Germany

Craig Wood, Global Director M2M, Logica, United Kingdom

Representative from OEM Company

SIS21 – Fully automated platoon system (on energy ITS project)

Wednesday 24 October 2012, 09.00–10.30

Lehar 4 Room

Energy saving as well as CO₂ emission reduction are important and challenging subjects for the road transport sector to achieve sustainable mobility. In FY2008, Japanese government kicked off "Development of Energy-saving ITS Technologies" project, in which an automated platoon coupled electrically by more 3 heavy trucks is to be built by FY2012. It is required for automated platoon to establish new technologies for keeping closely the gap distance between trucks and compensating the controllability for the failure of control devices or several weather conditions.

Energy-saving ITS project has reached its final term milestone, presenting and showcasing important findings.

During this session, the results achieved within the project will be presented, starting with a speech about outline of the automated platoon system. Then presentations will follow by energy-saving ITS project members. The aspects covered include the vehicle control technologies, computer vision technologies and the high speed V2V communication technologies.

Organiser

Tsuyoshi Yamashita, Deputy Director Automobile Division, Ministry of Economy, Trade and Industry, Japan

Invited Moderator

Yoshihiro Suda, Professor, Institute of Industrial Science – IIS, the University of Tokyo, Japan

Invited Speakers

Keiji Aoki, Director, ITS Research Division, Automobile Research Institute, Japan

Takanori Fukao, Associate Professor, Kobe University, Japan

Kazunori Onoguchi, Professor, Faculty of Science and Technology, Hirosaki University, Japan

Masaharu Hamaguchi, General Manager, Oki Electric Industry Co., Ltd, Japan

SIS22 – Usability and open data concept for smart mobility App.

Wednesday 24 October 2012, 09.00–10.30

Schubert 1 Room

The public sector data are the basis for a great number of mobility-related apps helping develop urban mobility into Smart Urban Mobility, provided they comply with user requirements and allow for e-inclusiveness. Good practice showcases will highlight the role smart cities could play in setting a frame for developing quality standards in both usability and technical fitness; whether coexistence between Open Data concept and setting of rules is an option for both developers and cities, and above all, end-users; whether factual quality and usability standards are developing already for urban mobility apps.

Organiser

Ingrid Götzl, Chair of EURO CITIES Knowledge Society Forum, City of Vienna/Eurocities, Austria

Invited Moderator

Robert Bell, Co-Founder, Intelligent Community Forum, USA

Invited Speakers

Bart Rosseau, deputy chair of EURO CITIES KSF Open Data work group; City of Ghent, Belgium

Väino Olev, Chief Information Officer, City of Tallin, Estonia

Dave Carter, Head of Manchester Digital Development Agency – MDDA, Manchester City Council, United Kingdom

Dorothea Erharter, Researcher, Managing Director of Center for Interaction, Media and Social Diversity, Austria

Representative of EURO CITIES Mobility Forum, tbd

Special Interest Sessions

SIS23 – International standards harmonisation for cooperative ITS

Wednesday 24 October 2012, 09.00–10.30

Schubert 2 Room

Globally harmonized ITS standards offer opportunities to accelerate and reduce the costs and complexity of deployment of cooperative ITS technologies while expanding competitive markets for industry. The European Commission and United States governments have entered into cooperation agreements to further standards harmonization. This session will provide an update on these activities and describe plans for the future. Accomplishments and lessons learned in the execution of joint harmonization activities will be described along with ITS and auto industry perspective on the value of harmonization and international governmental cooperation.

Organiser

Steve Sill, Program Manager, ITS Architecture and Standards, ITS Joint Program Office, US DOT, USA

Invited Moderator

Wolfgang Höfs, Head of Sector, European Commission, DG CONNECT

Invited Speakers

Brian Cronin, Team Lead, Research, ITS Joint Program Office, Research and Innovative Technology Administration – RITA, US DOT, USA

Knut Evensen, Chief Technologist, Q-Free ASA, Norway

Representative from Automobile Manufacturer

SIS24 – IBEC – The Impact of social media on sustainable travel choices

Wednesday 24 October 2012, 09.00–10.30

Schubert 3 Room

Research indicates that Europeans now spend more time online than they do reading newspapers or magazines. It has also been estimated that almost a quarter of this time is spent on social networking sites and a number of industry sectors have recognised its potential as a cost-effective, popular and relatively sophisticated form of communication. This session will explore the impact and potential of social networking, and the factors that could enhance its use in supporting more sustainable travel choices. We shall also discuss the relatively unexplored issue of how the impact of social media can be evaluated.

Organiser

Alan Stevens, Research Director, Transport Research Laboratory – TRL, United Kingdom

Moderator

Richard Harris, Solution Director, Xerox, United Kingdom

Invited Speakers

Rebecca Hutchins, Research Specialist, Transport Research Laboratory – TRL, United Kingdom

Susan Grant-Muller, Senior Lecturer University of Leeds, United Kingdom

Annie Pausie, Chief Researcher, French Institute of Science and Technology for Transport, Development and Networks – IFSTTAR, France

Randy Walker, Transportation Programs Manager for the Computational Sciences and Engineering Division, Oak Ridge National Laboratory, USA

SIS25 – Safety technology for commercial vehicles

Wednesday 24 October 2012, 09.00–10.30

Schubert 4 Room

Commercial freight vehicles have specific, and sometimes elevated, crash risks which are amenable to a wide range of technologies which sense vehicle condition, infrastructure and traffic factors, environmental conditions, and the behaviour of drivers and vehicles. The larger and heavier, and most productive, freight vehicles are potential beneficiaries of these technologies.

This session will explore the performance and effectiveness of heavy truck safety technologies, along with means of increasing the rate of deployment of beneficial technologies. The presenters will offer the perspectives of manufacturers, government agencies and researchers.

Organiser

Peter F. Sweatman, Director/Research Scientist, University of Michigan – UMTRI, USA

Invited Moderator

Peter F. Sweatman, Director/Research Scientist, University of Michigan – UMTRI, USA

Invited Speakers

John Woodrooffe, Director, Transportation Safety Analyse, University of Michigan – UMTRI, USA

Trent Victor, Senior Specialist, Volvo Technology, Sweden

Jeff Loftus, Chief Technology Division, Federal Motor Carrier Safety Administration – FMCSA, US DOT, USA

Alan Korn, Director, Vehicle Dynamics and Control, Meritor Wabco, USA

SIS26 – Development of Vehicle – Infrastructure cooperative systems

Wednesday 24 October 2012, 09.00–10.30

Schubert 5 Room

Many countries are researching Vehicle-Infrastructure (V-I) Cooperation Systems. In Japan, National Police Agency (NPA) has developed V-I Cooperative Driving Safety Support Systems (DSSS) in cooperation with UTMS Society of Japan (UTMS Japan). Central controlled DSSS has been already deployed in Japan. Considering the recent financial crisis, the NPA and the UTMS Japan need to pursue to develop standalone DSSS which consists of only roadside equipment. Standalone DSSS is expected to be adopted for improving traffic situation in emerging countries from the point of price.

Organisers

Masahide Hatakeyama, Assistant Director, National Police Agency, Japan and Takashi Kimura, Senior member, International cooperation subcommittee, Universal Traffic Management Society, Japan

Invited Moderator

Takashi Oguchi, Professor, Institute of Industrial Science, The University of Tokyo, Japan

Invited Speakers

Masaaki Oizumi, Assistant Director, National Police Agency, Japan

Noriyuki Tsukada, Engineer, Nissan Motor Co., Ltd, Japan

Shigeru Inoue, Chief Engineer, Honda R&D Co., Ltd, Automobile R&D Centre, Japan

Sylvain Haon, Executive Director, Polis

Special Interest Sessions

SIS27 – Energy management in vehicle and household aspect

Wednesday 24 October 2012, 09.00–10.30

Schubert 6 Room

While in the ITS research field vehicles are considered a part of the transport system relating to urban planning, the recent trend of vehicle electrification has underscored importance of energy management with close relation amongst vehicles, homes and offices. Energy modelling approach deals with energy demand, which is difficult to grasp and analyze. Because energy demand fluctuates depending on time and day, weather and driving pattern influencing one another. Therefore, collective and consecutive research is indispensable referring to a wide range of disciplines, such as simulation and telecommunication.

Organiser

Shigeo Kobayashi, Senior Vice President, ITS Japan, Japan

Invited Moderator

TBD

Invited Speakers

Hideaki Tsuru, Chief Engineer Division Manager, Strategic Research Planning Division, Fundamental Technology Research Centre, Honda R&D Co., Ltd., Japan

Takahiro Suzuki, Director General (EV&ITS Promotion), Nagasaki Prefectural Government / Guest Associate Professor, ITS Center, The University of Tokyo, Japan

Representative from Stanford University, USA

Speaker from Austria

Speaker from Asia-Pacific

SIS28 – Which ITS technology works the best for the Asia Pacific megacities?

Wednesday 24 October 2012, 09.00–10.30

Business Suite 1 Room

Many emerging countries in the Asia-Pacific region are tackling traffic problems of safety, congestion, environment as they face with the rapid growth of economy, concentration of population and increase of traffic demand in metropolis.

In this session, experts from Asia-Pacific countries with a step-ahead of ITS implementation will share the experiences and lessons learned from the various ITS policies and technologies such as traffic information system, signal control system, BRT, ERP, ETC and so on. And they will also discuss what contributes most to improve the current situation.

Organiser

Nobukazu Kanesaki, International Affairs, ITS Japan, Japan

Invited Moderator

SK Jason Chang, Professor, National Taiwan University/ Vice Chair, ITS Taiwan, Chinese-Taipei

Invited Speakers

Xue Jiangdong, Member of Beijing Municipal Communications Committee, China

Sing Mong Kee, President, ITS Singapore/Vice President ITS Business ST Electronics Ltd, Singapore

Yojiro Muraoka, Deputy Director, Headquarter of the Governor of Tokyo, Tokyo Metropolitan Government, Japan

Itti Rittaporn, General Manager, Content and EV Division, Toyota Tsusho Electronics (Thailand) Co., Ltd., Thailand

Jin Young Park, Urban Development Specialist (Transport), Regional& Sustainable Development Department, Asian Development Bank

SIS29 – OBU – The (missing) link between the car and the community

Wednesday 24 October 2012, 09.00–10.30

Business Suite 3/4 Room

This special session will give the attendees an overview of the many challenges to make a good and sustainable solution for a common technical communication platform in cars.

The OEMs has a lifetime of the vehicle which is around 10–12 years. And the challenge is that the lifetime for communication equipment today is 1–3 years. The aftermarket can deliver good products, but are hindered by mediocre connection to the vehicles.

There will be focus on physical deployment in aftermarket, data communication, security related features and value adding functionality e.g. eCall and digital tachograph.

Organiser

Svend Tøfting, Project Director, North Denmark Region, Denmark

Invited Moderator

Jens Peder Kristensen, CEO, KeyResearch, Denmark

Invited Speakers

Thomas Kuhn, Senior Manager Infotainment & Connectivity, Continental Automotive GmbH, Germany

Maurice Geraets, Senior Director Mobility, BU-Automotive, NXP semiconductors, The Netherlands

Marcel Visser, Global Vice President Automotive, Cinterion, Germany

Christian Rousseau, Director Mobility and Transport Policy, Renault, France

Svend Tøfting, Project Director, ITSPlatform.dk – North Denmark Region/Aalborg University, Denmark

SIS30 – How intelligent cities revitalise local communities and economies

Wednesday 24 October 2012, 16.00–17.30

Stolz 1 Room

Intelligent cities use technology and smart planning to coordinate resources for more effective transportation, policy, and business. This leads to more attractive markets, better living and working environments, policy that fosters innovation, and improved resource efficiency. Strengthening these economic health pillars revitalises cities and invigorates economic growth. But what does it mean to be an intelligent city? How do cities become intelligent? Technology and municipality experts discuss case studies and their vision for the future of intelligent cities, and what it means for businesses, governments, jobs, and economic growth.

Organiser

Zia Yusuf, President & CEO, Streetline, Inc. USA

Invited Moderator

Mark Yates, Research Analyst, Insights and Vertical Markets, IDC CEMA, USA

Invited Speakers

Vinodh Swaminathan, Director, Intelligent Transportation Systems, Sales & Distribution – Government Industry, IBM, USA

Zia Yusuf, President & CEO, Streetline, Inc., USA

Marcus Welz, Business Manager, Siemens AG Infrastructure & Cities Sector, Germany

Katja Schechtner, Head of Business Unit Dynamic Transportation Systems, AIT and Visiting Scholar at Visiting Scholar Changing Places Group, MIT Media Lab, Austria/USA

Special Interest Sessions

SIS31 – Road charging based on satellite navigation experiences and trends in Europe and US

Wednesday 24 October 2012, 16.00–17.30

Stolz 2 Room

Free-flow road charging is an established trend and nation-wide schemes based on Satellite Navigation are now operational in Germany and Slovakia and under implementation in France, offering innovative flexibility for large and modern toll domains. In US, distance based systems using Satellite Navigation are under trial, proposing also the use of Smartphone instead of dedicated on board unit, differently from Europe.

The aim of this section is to analyse the future perspectives of road charging based on Satellite Navigation, discussing business opportunities, innovations and how to increase user acceptance.

Organiser

Fiammetta Diani, Market Development Officer, European GNSS Agency – GSA

Invited Moderator

Philippe Hamet, European Commission, DG MOVE

Invited Speakers

Bobošík Miroslav, Head of Strategy Development and Marketing, Skytoll, Slovakia

Volker Vierroth, Principal Consultant, T-System, Germany

Luigi Iacalone, CEO, AutostradeTech, Italy

Bennett Pierce, Research Leader, Battelle, USA

Dragan Kostevski, Head of Products and Sales Tolling and Telematics, Continental, Germany

Andy Sage, Director, Helios, United Kingdom

SIS32 – ITS and the cities – Smart cities for cleaner mobility

Wednesday 24 October 2012, 16.00–17.30

Lehar 1 Room

Cities and regional authorities are facing the challenge of a sustainable urban development that both strengthens competitiveness and meets stringent emission limits. Pioneer cities deeply involved in the deployment of ITS will share their experience, namely in the context of EC Competitiveness and Innovation Program (CIP) and associated projects piloting ITS services for clean, efficient and electro-mobility.

Vienna, Helsinki, Tampere, Bordeaux, Trondheim, Barcelona and Toyota-City are all ITS forerunner cities implementing innovative solutions expected to smooth traffic flow, increase travel convenience and improve energy efficiency. These cities also play a role in assessing the environmental, business and societal impacts of the solutions deployed.

Organiser

Julie Castermans, Project Support Manager, ERTICO – ITS Europe

Invited Moderator

Paul Kompfner, Head of Cooperative Mobility Sector, ERTICO – ITS Europe

Invited Speakers

Thomas Novak, Research Project Engineer, Swarco Futurit, Austria

André Perpey, President, TOPOS Aquitaine, France

Ørjan Tveit, Researcher, Norwegian Public Roads Administration, Norway

Ramon Pruneda, Responsible for Strategic Sector Projects, Barcelona Activa – City Council of Barcelona, Spain

Masayuki Kawamoto, Deputy General Manager R&D Management Division, Toyota Motor Corporation, Japan

SIS33 – Global perspective – Emergency service response – eCall

Wednesday 24 October 2012, 16.00–17.30

Lehar 2 Room

The advent and gradual introduction of advanced vehicle safety systems have made a significant impact on the levels of casualties in terms of numbers and severity that are caused through collisions involving motor vehicles throughout the world.

Currently eCall deployments are poised to take effect in four defined geographic areas, Americas, Pacific Rim, Europe and Russia.

What are the significant differences in approach to eCall deployment across the four sectors, and what can be learnt from each sector in terms of Policy and Strategy, Services and Functions, Governance, Cooperation and Organisational structure.

Organiser

Andy Rooke, Project Coordinator, ERTICO – ITS Europe

Invited Moderator

Andy Rooke, Project Coordinator, ERTICO – ITS Europe

Invited Speakers

Emilio Davila-Gonzales, Project Officer, European Commission, DG CONNECT

David Hatton, Global Product Leader, Ford, USA

Martin Pichl, Unit Head, Czech Ministry of Transport, Czech Republic

Marcel Visser, Global Vice President Automotive, Cinterion, Germany

Vladimir Kryuchkov, CEO, ITS Russia, Russia

Marcel Opris, Head of PSAP, STS, Romania

Fiammetta Diani, Market Development Officer, European GNSS Agency – GSA

SIS34 – Vehicle-IT convergence for the fully networked car

Wednesday 24 October 2012, 16.00–17.30

Lehar 3 Room

The fully networked car utilising vehicle-information technology (VIT) convergence has been applied worldwide, which provides all the transportation modes and users with the vehicle to vehicle (V2V), vehicle to infrastructure (V2I), and vehicle to nomadic device (V2N) communications.

This session will review the service requirements for providing the fully networked car transportation systems in terms of the variety types of communication technologies with respect to the vehicles, infrastructure, and the media of traffic users.

Organiser

Young Jun Moon, Director, The Korea Transport Institute – KOTI, Korea

Invited Moderator

Young Jun Moon, Director, The Korea Transport Institute – KOTI, Korea

Invited Speakers

Suckhong Lee, Director, Hyundai Engineering and Construction, Korea

Byoungnam Kim, Head of R&D Dept., Ace Technologies Corp., Korea

Gye-Hyeong Ahn, Director, Road Traffic Authority, Korea

Speaker from the Americas

Speaker from Europe

Special Interest Sessions

SIS35 – Demonstrating the environmental contributions from demand responsive traffic control

Wednesday 24 October 2012, 16.00–17.30

Lehar 4 Room

This session demonstrates the contribution that demand responsive traffic control systems can provide, to the management of environmental factors that are generated from road vehicle activity. The broad panel of experts will share and discuss their novel but practical works. Discussion will pivot around the critical challenge of producing rigorous and therefore defensible results when assessing relevant cause and environmental effects. The session will arm the audience with a comprehensive picture of leading edge research and evidence of the contribution that traffic control can provide to the environment.

Organiser

Steven Shaw, Client Liaison Manager, Roads and Maritime Services, Australia

Invited Moderator

TBD

Invited Speakers

Bart van Arem, Professor of Transport Modelling, Delft University of Technology, The Netherlands

Margaret C. Bell, CBE, Science City Professor of Transport and Environment, Newcastle University, United Kingdom

Christian Chong-White, Traffic Algorithm Development Manager, Roads and Maritime Services, Australia

Ronald van Katwijk, Senior Consultant, Mobility & Logistics, Netherlands Organisation for Applied Scientific Research - TNO, The Netherlands

Hesham Rakha, Professor of Civil and Environmental Engineering and Director, Centre for Sustainable Mobility, Virginia Tech, USA

SIS36 – Social networking and ITS: Roadmap to a revolution?

Wednesday 24 October 2012, 16.00–17.30

Schubert 1 Room

Social Media is revolutionising our world, both figuratively, as shown by Facebook's ubiquitousness, and literally, as shown by social media's role in the Arab Spring uprisings. The transport sector is no exception. This session describes how social media is being used to bring intelligence to transport systems and ideas for improving the integration of social media into transport systems will be presented. Session topics include: crowd sourcing, education, real-time reporting, online games and public participation, as well as problems such as the digital divide and security.

Organiser

Andrew Nash, Developer, GreenCityStreets.com, Austria

Invited Moderator

Andrew Nash, Developer, GreenCityStreets.com, Austria

Invited Speakers

Margarita Marie Köhl, Researcher, National Kaohsiung First University of Science and Technology, Kaohsiung, Taiwan / University of Vienna, Austria

Michael Kieslinger, Managing Partner, Fluidtime Data Services GmbH, Austria

Oana Stefana Mitrea, Researcher Transportation Informatics Group, Institute for Smart System Technologies, Alpen-Adria University Klagenfurt Graz Vienna, Austria

Kyandoghene Kyamakya, Transportation Informatics Group, Institute for Smart System Technologies, Alpen-Adria University Klagenfurt Graz Vienna, Austria

Andrew Nash, Developer, GreenCityStreets.com, Austria

Craig Nelson, Transportation Consultant, Steer Davies Gleave, United Kingdom

Hans Klein, Associate Professor, School of Public Policy, Georgia Institute of Technology, USA

SIS37 – Accelerating service deployment – Strategy view from the traffic and transport industry

Wednesday 24 October 2012, 16.00–17.30

Schubert 2 Room

This session considers the industry and public sector view on how to accelerate ITS deployment.

It is based on a recently published strategy paper produced by members of the ERTICO Traffic and Transport Industry sector platform. The platform comprises twelve leading organisations that influence the development and deployment of ITS enabled services. The paper addresses how to overcome barriers to deployment, the importance and the role of political leadership (including expectations associated with the ITS Directive) and how industry and the authorities can best cooperate to ensure sustained operational acceleration.

Organiser

Cees de Wijs, Group President International Transportation and Government, Xerox, The Netherlands

Invited Moderator

Rasmus Lindholm, Head of Partnership Services and Communication, ERTICO – ITS Europe

Invited Speakers

Cees de Wijs, Group President International Transportation and Government, Xerox, The Netherlands

Josef Czako, Director International Business Development, Kapsch TrafficCom AG, Austria

Andrew Winder, Senior Project Manager, Groupe Egis, France

Hauke Jürgensen, CEO at Intelligent Traffic Systems, Siemens, Germany

Evelinde Grassegger, Head of Unit Mobility and Transport Technology, Federal Ministry for Transport, Innovation and Technology – bmvit, Austria

SIS38 – IBEC – Business models and revenue sources for C2X communication

Wednesday 24 October 2012, 16.00–17.30

Schubert 3 Room

The benefits of C2X communication are widely recognised, but it is still controversially discussed, if C2X communication is economically viable. The investment needed for a functioning system is high. Nevertheless, studies done in projects such as DRIVE C2X, simTD or EasyWay have shown that there is potential for reimbursing these costs at least partially if not to the full. The session will present possible revenue sources and the related potential for cost saving and new businesses for the major stakeholder groups such as automotive industry, public authorities and road operators.

Organisers

Matthias Schulze, Senior Manager Driver Support and Warning (GR/PAD), Daimler AG Group Research & Advanced Engineering, Germany

Invited Moderator

Matthias Schulze, Senior Manager Driver Support and Warning (GR/PAD), Daimler AG Group Research & Advanced Engineering, Germany

Invited Speakers

Wolfgang Schulz, Managing Director, IERC GmbH, Germany

Nadja Rappold, Director Consulting, Facit Research GmbH & Co KG, Germany

Torsten Geissler, Scientific Officer, Federal Highway Research Institute – BAST, Germany

Marko Jandrisits, Project Engineer, ASFINAG AG, Austria

Luisa Andreone, Project Manager European Network, Centro Ricerche Fiat – CRF, Italy

Special Interest Sessions

SIS39 – Predictive map-based applications for safe and clean mobility

Wednesday 24 October 2012, 16.00–17.30

Schubert 4 Room

New generation of driver assistance systems use predictive data based on map data and vehicle position. This session reports new development made by the automotive industry on the implementation of the ADAS Interface Specifications (ADASIS) for safety, fuel economy and energy efficiency applications, with plans for market introduction.

The enabling technology linking map data, vehicle position and ADAS was developed by the ADASIS Forum created in 2002 releasing its specifications in April 2010. In 10 years this industry driven forum has developed specifications used in today's new Driver Assistance systems.

Organiser

Jean-Charles Pandazis, Head of Sector EcoMobility, ERTICO – ITS Europe

Invited Moderator

Jean-Charles Pandazis, Head of Sector EcoMobility, ERTICO – ITS Europe

Invited Speakers

Alexander Bracht, ADASIS Chairman, Daimler, Germany

Tony Sandberg, Senior manager Predevelopment, Scania AB, Sweden

Hongjun Pu, Project Manager Advanced Technologies, Continental Automotive GmbH, Germany

Robert Denaro, Vice President Advanced Driver Assistance Systems Product Marketing, Nokia, USA

Masahiko Ikawa, Head Researcher, Mobility System Control Group, Systems Technology Department, Mitsubishi Electric Corporation, Japan

SIS40 – Roadmap to autonomy

Wednesday 24 October 2012, 16.00–17.30

Schubert 5 Room

Vehicles of the future will sense and communicate and so create an ecosystem of advanced connectivity that will revolutionise transportation. Vehicles will no longer travel in isolation, but connect with other vehicles, the roadway, pedestrians, businesses, and other digital networks. This connectivity will transform the driving experience by opening the door to multiple degrees of autonomous transportation, from assisted to robotic and to monumental improvements in safety, mobility, environmental and productivity. The question is not so much will this happen, but when? This session will address milestones and roadmaps to autonomy with topics including milestone forecasts for achieving semi-autonomy and full autonomy, the actions that can be taken by governments to bolster consumer acceptance of autonomous vehicles onto roadways, component failure scenarios, critical sensors and other components, core research areas and required breakthroughs for autonomous vehicles, road environments, autonomous vehicle functions or behaviours that require improvement, and actions to ensure a future market for civilian autonomous vehicles.

Organiser

Steven Underwood, Director, University of Michigan – Dearborn, USA

Invited Moderator

Steven Underwood, Director, University of Michigan – Dearborn, USA

Invited Speakers

Steven Underwood, Director, University of Michigan – Dearborn, USA

Corey Clother, TARDEC, USA

Yoshifumi Nagai, Director for the Coordination of Motor Vehicle Safety Measures, Ministry of Land, Infrastructure, Transport and Tourism – MLIT, Japan

Kenichi Kitahama, Project Manager, R&D Management Division, Toyota Motor Corporation, Japan

SIS41 – Human Machine Interface to encourage an environmentally friendly driving behaviour

Wednesday 24 October 2012, 16.00–17.30

Schubert 6 Room

Environmentally friendly driving is becoming an increasingly important topic among the ITS community in part because of its potential role in helping to mitigate climate change. Eco-driving tackles driving inefficiencies in order to maximise energy efficiency, avoid unnecessary emissions and improve traffic flows without compromising safety.

This special session depicts practical examples of human machine interfaces (HMI) that encourage such eco driving behaviour. The session encompasses passenger cars and heavy vehicles, and explores the links between different HMI options and the desired behavioural change. Speakers present the latest results as obtained by different projects from Europe, United States and Japan.

Organiser

Oliver Carsten, Professor of Transport Safety, Institute for Transport Studies, University of Leeds, United Kingdom

Invited Moderator

Oliver Carsten, Professor of Transport Safety, Institute for Transport Studies, University of Leeds, United Kingdom

Invited Speakers

Rino Brouwer, Senior Project Manager, Netherlands Organisation for Applied Scientific Research – TNO, The Netherlands

Martin Brockmann, HMI Team, Ford-Werke GmbH, Germany

Thomas Seder, Lab Group Manager, Human Machine Interface Research – Vehicle Development Lab, General Motor Global R&D, USA

Johan Jarlengrip, Group Manager – Human Factors, Advanced Technology & Research, Volvo Group Trucks Technology, Sweden

Kazunari Nawa, Group Leader of R&D, Toyota Info Technology Centre, Japan

Mark Fowkes, Senior Consultant, MIRA Limited, United Kingdom

SIS42 – Innovation of telematics in China

Wednesday 24 October 2012, 16.00–17.30

Business Suite 1 Room

In what aspects is China's Telematics market most different from other countries? What are the innovative opportunities? In OEM Telematics market, how should OEMs work with various suppliers to provide the best services for users? What values can aftermarket Telematics provide for users? Who is most likely to become the leader of the industry chain? How to promote evolution in China traffic information industry by using innovative technologies like Probe Car?

Organiser

Weiyun Jiao, Department Manager, China National ITS Centre, China

Invited Moderator

Andrew Hart, Senior ITS and Telematics Analyst, SBD, United Kingdom

Invited Speakers

Scott J. McCormick, President, Connected Vehicle Trade Association, USA

Misaki Masami, Vice President, Nissan Investment Co. Ltd, Japan

Jianhui Wu, President, China Telematics Application Alliance, China

Peter Zhou, Vice General Manager, Autonavi Co. Ltd, China

Special Interest Sessions

SIS43 – Intelligent Ports – The role of ITS in freight logistics in harbours

Wednesday 24 October 2012, 16.00–17.30

Business Suite 3/4 Room

ITS can play an important role in freight logistics – and that is NOT only true for road or rail freight, but also for co-modal approaches as they happen day by day in every port of the world. One of the main tasks is to share actual information of all transport modes active around the port region to use them during all kind of incidents (i.e. new disposition of trucks when a ship's dock changes up to change of the mode for the further internal or external transport). Representatives of some of the largest ports in the world and ITS experts will discuss active as well as reactive incident management approaches, proactive safety/security monitoring (flooding, terror, dangerous good management etc.) and the service optimisation for all transport modes by the co-operation of all the different authorities and private companies involved around such a port.

Organiser

Norbert Handke, Managing Director, ITS Network Germany, Germany

Invited Moderator

Hans-Peter Wyderka, Head of Unit, Niedersachsen Ministry of Economics, Labor and Transport, Germany

Invited Speakers

Sascha Westermann, Senior Engineer Strategy and Infrastructure, Hamburg Port Authority, Germany

Jose Viteri, Managing Director, MLC-ITS Euskadi, Spain

Nicholas Tengelin, ITS UK Maritime Interest Group, United Kingdom

Nico Anten, Managing Director, Connekt/ITS Netherlands, The Netherlands

Michael Pal, Senior Transport Analyst, Fremantle Ports, Australia

SIS44 – Optimising ITS from a customer service perspective

Thursday 25 October 2012, 09.00–10.30

Stolz 1 Room

ITS objectives can be summarised at the highest level as improving safety, efficiency and customer service. This session will focus on the customer service effects of ITS. It will address: customer needs being addressed by ITS, the most effective ways to communicate with the customer, how are customer expectations being set by other service industries (FedEx, Southwest Airlines and others), and what are the customer service effects of ITS and how can we measure them. An international panel that cuts across all modes of transportation and service industries will be asked to present answers to these questions and support an interactive dialogue with the audience.

Organiser

Bob McQueen, CEO, The OCash Company, USA

Invited Moderator

Bob McQueen, CEO, The OCash Company, USA

Invited Speakers

Steve Morello, D'Artagnan Consulting, USA

Andrew Pickford, Transport Technology Consultants

Ronnie Begg, SQLStream

Alex Petrie, inrix

SIS45 – Follow the money: ITS, commercial vehicles and freight; an international perspective

Thursday 25 October 2012, 09.00–10.30

Stolz 2 Room

We will explore ITS technologies and business models that have been deployed to assist the commercial vehicle market meet and verify that certain safety standards have been met and revenue due collected. These applications include preclearance, screening, wireless inspections, on-board recorders, DSRC and roadway pricing.

The application of ITS Technology in the commercial vehicle and freight space is unique in that the truckers can be incentivised to apply new technology assuming there is a measurable ROI. The market also offers the opportunity to develop new models and partnerships to meet both safety and revenue (VMT/ Tolls) needs allowing the private sector to invest and share the risk.

Organiser

Chris Body, Vice President, Business Development, Kapsch TrafficCom, USA

Invited Moderator

Chris Body, Vice President, Business Development, Kapsch TrafficCom, USA

Invited Speakers

Ken Philmus, Senior Vice President Transportation and Local Government, Xerox, USA

Brian Michie, SVP/Global Business Development, eRoad, New Zealand

Bernd Datler, Managing Director, ASFINAG Maut Service GmbH, Austria

SIS46 – Bike sharing and Bike Rapid Transit (BIRT) for green transportation

Thursday 25 October 2012, 09.00–10.30

Lehar 1 Room

This session will present the preliminary phase of worldwide research and development for the bike systems to be one of the transit modes in Urban transport. The projects carried out worldwide so called "Bike Rapid Transit (BiRT)" by Germany, USA, Canada, Korea, and/or other countries will be demonstrated.

This session will focus on how BiRT could be issued as a transport mode and what technology would be adopted for improving the conventional Bike systems and infrastructure worldwide.

Organiser

Heechul Shin, Research Fellow, The Korea Transport Institute – KOTI, Korea

Invited Moderator

Heechul Shin, Research Fellow, The Korea Transport Institute – KOTI, Korea

Invited Speakers

Speaker from Korea

Speaker from USA

Speaker from Germany

Speaker from The Netherlands

Special Interest Sessions

SIS47 – Driving behaviours by aged drivers and safety countermeasures

Thursday 25 October 2012, 09.00–10.30

Lehar 2 Room

The number of traffic accidents caused by aged drivers is increasing year by year due to the aging society. The report from NEXCO WEST says that the number of the fatal accidents caused by wrong direction driving on the expressway during 2002 to 2006 recorded 76 cases, and 34 of them were by the aged drivers who were over 65 years old. In Japan, 4,863 peoples died in traffic accidents in 2010, and 2,450 of them were aged peoples. The traffic accidents involving the aged people are the most important subject in Japan. In this session, we will discuss the status about traffic accidents, and the driving behaviours by the aged drivers as well as the safety countermeasures using ITS.

Organiser

Yasuhiko Kumagai, Professor, Kochi University of Technology, Japan

Invited Moderator

Yasuhiko Kumagai, Professor, Kochi University of Technology, Japan

Invited Speakers

Fumitaka Kurauchi, Associate Professor, Gifu University, Japan

Kimihiko Nakano, Associate Professor, University of Tokyo, Japan

Hideaki Suganuma, Universal Traffic Management Society of Japan, Japan

Koichi Matsumoto, Deputy Director General, Shikoku Branch, West Nippon Expressway Company Limited, Japan

Yvonne Barnard, Senior Research Fellow, University of Leeds, United Kingdom

Kaechen Park, Invited Professor, Kochi University of Technology, Japan

Hideo Inoue, Project General Manager, R&D Management Division, Toyota Motor Corporation, Japan

SIS48 – Cooperative ITS Field Operational Tests in Europe

Thursday 25 October 2012, 09.00–10.30

Lehar 3 Room

Field Operational Tests (FOTs) are large-scale testing programmes aiming at a comprehensive assessment of the efficiency, quality, robustness and acceptance of ICT solutions used for smarter, safer, cleaner, and more comfortable transport solutions, such as navigation and traffic information, and advanced driver assistance. The last few years, a series of European countries has greatly invested in assessment with several FOTs on Cooperative ITS involving public and private stakeholders.

This session brings together national FOT activities in five European member states. The aim is to present their achievements as well as their underlying deployment and exploitation plans. FOT-Net will chair the session as they are representing the strategic networking platform dedicated to the promotion of FOTs.

Organiser

Irina Silva, Project Manager, ERTICO – ITS Europe

Invited Moderator

Maxime Flament, Head of Sector SafeMobility, ERTICO – ITS Europe

Invited Speakers

Francisco Sanchez, Electronics & ITS Director, CTAG, Spain

G rard Segarra, Engineering division, Cooperative ITS Innovations Pilot, Renault, France

C cile Barbier, Ergonomist, Renault, France

Christian Weiss, Project leader simTD, Daimler AG, Germany

John-Fredrik Gr nvall, Manager Traffic Accident Research, Volvo Car Corporation, Sweden

SIS49 – ITS for fully electric vehicles: Political framework, research & deployment aspects

Thursday 25 October 2012, 09.00–10.30

Lehar 4 Room

Considering the number of initiatives taken worldwide by governments, EC, vehicle & component manufactures and also by energy suppliers to strive for a sustainable, clean and energy efficient mobility, this session is focusing on the provision of a holistic view on how ITS can support the transformation from today's "conventional-car-market" towards the Fully Electric Vehicle (FEV).

The session will highlight "ITS for FEV" from a political point of view, funded research (ELVIRE project and OpEneR project) and deployment issues are covered as well.

Organiser

Thomas Kuhn, Senior Manager Infotainment&Connectivity, Continental Automotive GmbH, Germany

Invited Moderator

Thomas Kuhn, Senior Manager Infotainment&Connectivity, Continental Automotive GmbH, Germany

Invited Speakers

Emilio Davila Gonzalez, Project Officer, European Commission, DG CONNECT

David Sánchez Fernández, Active Safety Manager, CTAG, Spain

Hannes Luettringhaus, ELVIRE Project Coordinator, Continental Automotive GmbH, Germany

Kosmas Knödler, Chassis Systems Control, Engineering Advanced Development, Robert Bosch GmbH, Germany

Sylvain Laversanne, PSA Peugeot Citroën, France

SIS50 – Benefits through intelligent management of transportation infrastructure

Thursday 25 October 2012, 09.00–10.30

Schubert 1 Room

Transportation infrastructure has to fulfil high standards of requirements like reliability, availability, maintainability and safety. Ensuring these aspects is very cost and time intensive. New technologies which allow data to be collected and processed help the infrastructure operators to schedule maintenance proactively, while the lifespan of the vehicles and infrastructure can be prolonged, life cycle costs can be reduced and accidents can be prevented. ITS offers a lot of dynamic maintenance solutions for all modes of transportation. This session should give an overview on new methods for preventive maintenance strategies.

Organiser

Sarah Krautsack, Programme Owner, Federal Ministry of Transport, Innovation and Technology – bmvit, Austria

Invited Moderator

Wolfgang H. Steinicke, Secretary General, EURNEX, Germany

Invited Speakers

Michael Nölle, Project Manager, Austrian Institute of Technology – AIT, Austria

Andreas Oberhauser, Infrastructure Inspection, Wiener Linien GmbH & Co KG, Austria

Peter Hrassnig, R&D Coordinator Tolling, ASFINAG, Austria

Jürgen Siegmann, Head of the Department of Track and Railway Operations, Technical University of Berlin, Germany

Dennis Schut, Senior Adviser for Research, International Union of Railways – UIC, France

Special Interest Sessions

SIS51 – ITS – The female approach

Thursday 25 October 2012, 09.00–10.30

Schubert 2 Room

To engage more women in the field of ITS is a key challenge, we need to address, if we want to move smarter in the future. Gender is highly relevant to the transport field: not only are there clear gender differences in the use of the transport system, it is also characterised by masculine values and practices. For this reason female expertise needs to be integrated at earliest point of the development process.

Another great challenge is to improve the visibility of female experts in this field. As a first step we need to establish female networks.

Organiser

Gertraud Oberzaucher, "Talents for ITS", AustriaTech, Austria

Invited Moderator

Katy Whitelegg, Expert Advisor, Austrian Institute of Technology – AIT, Austria

Invited Speakers

Gloria Jeff, Acting Deputy Director/Associate Director, District of Columbia DOT, USA

Susan Harris, CEO, ITS Australia, Australia

Isabelle Kürschner, Catalyst Europe AG, CE Ambassador for the Germanic Region

Elisabeth Pösel, Deputy Director, Ministry of Transport, Innovation and Technology, Austria

Eva Schelin, Head of Department Policy & Systems, Governmental Agency for Innovation – VINNOVA, Sweden

SIS52 – IBEC – Benefits of ART: Adaptive Real Time Traffic Control – the most cost effective ITS ever?

Thursday 25 October 2012, 09.00–10.30

Schubert 3 Room

Adaptive Real Time (ART) traffic control systems usually have detectors at each junction, which allows real time adaptation to traffic conditions by an on-line model. Such systems have been described as possibly offering the best yet Benefit/Cost ratio of any Intelligent Transport system devised. Even compared with typical fixed time systems such as TRANSYT, ART systems typically provide a 20% reduction in delay in urban networks. This session will hear from practitioners about technology and policy developments and will explore the extent to which the benefits can be measured and realised.

Organiser

Alan Stevens, Research Director, Transport Research Laboratory – TRL, United Kingdom

Invited Moderator

Jacques Ehrlich, Chairman, World Road Association technical Committee on Network Operations; and Head of Laboratory on the Interactions Vehicles/Infrastructure/Driver, French Institute of Science and Technology for Transport, Development and Networks – IFSTTAR, France

Invited Speakers

Gavin Jackman, Traffic Software Manager, Transport Research Laboratory – TRL, United Kingdom

Mark Bodger, Product Marketing Manager, Siemens, United Kingdom

Jeff Lindley, Associate Director for Operations, Federal Highway Administration – FHWA, USA

Motoyoshi Noda, Assistant Director, Traffic Facilities and Control Division, Tokyo Metropolitan Police Department – MPD, Japan

Ronald van Katwijk, Senior consultant, mobility & logistics, Netherlands Organisation for Applied Scientific Research – TNO, The Netherlands

SIS53 – An effective use of an image – Recording type drive recorder data base

Thursday 25 October 2012, 09.00–10.30

Schubert 4 Room

Based upon an image-recording type drive recorder ("DR") technical result on a micro – individual vehicle level, macro – organisational/public traffic safety level including education and training as well, the concerned sectors expect to share the collected DR data to facilitate safer, more ecological and comfortable driving in the automobile society. Sharing DR data of accidents/near accidents happened to other drivers are also beneficial as good references among each other. It is the appropriate timing to discuss internationally about DR technology as a transient phase from "data collection" to "data management".

Organiser

Koji Ukena, CEO, UK-Consultant, Japan

Invited Moderator

Sadao Horino, Guest Professor, Engineering Research Institute, Kanagawa University, Japan

Invited Speakers

Joseph N. Kaniyantra, President, Active Safety Engineering LLC, USA/Former Associate Administrator for Vehicle Safety Research, National Highway Traffic Safety Administration – HTSA, USA

Takuya Ojimi, President, Japan Traffic Accident Identification Research Institute Co. Ltd., Japan

Eric Cohen, Manager, DriveCam Co. Ltd., USA

A speaker from European countries, ADAS related researcher, EC

SIS54 – Innovative road for next generation in Korea "SMART Highway"

Thursday 25 October 2012, 09.00–10.30

Schubert 5 Room

Smart Highway project is a large-scale research project underway in Korea to realise the world class fast, convenient and intelligent Green Road by converging IT technologies.

Many kinds of services have been developed based on WAVE communication (V2I, V2V) using 802.11p and the state-of-the-art IT technologies including radar technology and ETC. "Experience Road" with the length of 6km was already established to demonstrate as well as to verify and evaluate these services.

In this session, we will focus on Smart Highway 2nd stage Demonstration from methodology to results.

Organiser

Chan Hyun Choi, Assistant Manager, ITS Korea, Korea

Invited Moderator

Hee Cheol Shin, Research Fellow, the Korea Transport Institute – KOTI, Korea

Invited Speakers

Soon Gee Jo, Manager, ITS Korea, Korea

Ki Taeg Lim, Director, Korea Electronics Technology Institute – KETI, Korea

Hyun Seo Oh, Team leader, Electronics and Telecommunications Research Institute – ETRI, Korea

Kyu Ok Kim, Research Fellow, The Korea Transport Institute – KOTI, Korea

Myungseon Ryou, Team Manager, POSCO ICT, Korea

Special Interest Sessions

SIS55 – ITS a game changer in enabling environmentally sensitive corridor mobility management

Thursday 25 October 2012, 09.00–10.30

Schubert 6 Room

ITS can improve measurement of corridor and sub-regional ambient air quality levels and as a result impact current policies and traffic management through corridors. Many policies focus mainly on air quality measurements and enforcement at the regional level. Traffic data and ITS infrastructure could facilitate air quality measurements at the sub-regional/corridor level. Speakers will address both the policy and technical aspects of using better routing, transit and ITS/traffic data including travel time, acceleration/vehicle profile etc., to facilitate performance measurement/better management of traffic congestion and air pollution along major corridors.

Organiser

Hamed Benouar, Vice President Business Development and Government Relations, Sensys Networks, USA

Invited Moderator

Hamed Benouar, Vice President Business Development and Government Relations, Sensys Networks, USA

Invited Speakers

Matt Barth, Professor/Director, Centre for Environmental Research and Technology, University of California at Riverside, USA

Farhad Pooran, P.E., Vice President of Engineering, Telvent, USA

Ryota Horiguchi, CEO, i-Transport Lab. Co., Ltd., Japan

Susanne Planath, Head of Road user and Society, Western Region, Swedish Transport Administration – STA, Sweden

SIS56 – Meeting the rapidly changing information requirements of public transport users

Thursday 25 October 2012, 09.00–10.30

Business Suite 1 Room

As the technology and other conditions makes it possible, commuters' real time passenger information requirements have evolved rapidly. Far from the days of needing to visit the nearest bus stop with on-street electronic information displays, receiving useful contextual information about journeys on the move via mobile apps is now becoming popular in some cities. This session will see industry experts and governments transport agencies' project sponsors from across the world share their perspectives and responses to the threats and opportunities presented by the ever evolving passenger information requirements.

Organiser

Debo Shopade, Principal Systems Developer, CENTRO, West Midlands Passenger Transport Executive, United Kingdom

Invited Moderator

Simon Reed, Head of Technical Services Group, London Buses, Transport for London - TfL, United Kingdom

Invited Speakers

Simon Reed, Head of Technical Services Group, London Buses, Transport for London - TfL, United Kingdom

Emilie van de Graaff, Group Manager, Smarter Mobility, Veolia Transport Australasia Pty Ltd, a Veolia Transdev company, Australia

Carol Schweiger, Vice President, TranSystems, USA

Brian Higbee, General Manager and Project Director, Trapeze ITS U.K. Ltd, United Kingdom

Chris Lane, Head of Passenger Information, CENTRO, West Midlands Passenger Transport Executive, United Kingdom

SIS57 – ITS – Is there space for parking?

Thursday 25 October 2012, 09.00–10.30

Business Suite 3/4 Room

Every car, truck or bus ever built requires parking from its first day to its last. ITS saves time, lives and money but unfortunately, it doesn't often save a parking space. This session explores parking challenges and opportunities accompanied by emerging parking related ITS technologies and strategies that are long overdue. ITS should play a key role in parking – after all, every vehicular trip ever taken (anywhere on earth) begins and ends with parking. In addition to intelligent parking deployments saving time, lives and money, they are also one of the greenest solutions we have due to significant reductions in emissions and congestion.

Organiser

Richard Easley, President, E-Squared Engineering, USA

Invited Moderator

Richard Easley, President, E-Squared Engineering, USA

Invited Speakers

Richard Easley, President, E-Squared Engineering, USA

Zia Yusuf, President & CEO, Streetline, USA

Eugene Tsyrklevich, CEO, Parkopedia, UK

Chia-Jen Liu, Project Manager, Electrical Engineering Department, CECI Engineering Consultants, Inc., Chinese-Taipei

SIS58 – The data commons – A collaborative open concept satisfying users

Thursday 25 October 2012, 16.00–17.30

Stolz 1 Room

The "cloud" is proliferating, and travel data, whether personal or commercial, is everywhere. The existence of data, however, does not make it useful. This session will bring together policy and technical experts from around the globe to discuss the concept of an open "Data Commons" to create a much faster critical mass of useful information. It would not be heavily architected, and would require fewer resources to succeed. Collaboration would be necessary and it would still leave ample room for specific profit-oriented end user applications.

Organiser

Carl Kuhnke, Executive Director, ITS Canada, Canada

Invited Moderator

Robert Burrows, CEO, G4Apps Inc, USA

Invited Speakers

Victor Leung, UBC IMS Inc, Canada

Raimund Wagner, AMV Networks GmbH, Austria

David Pickeral, Global Development Executive ITS, IBM Corporation, USA

Speaker from Asia Pacific

Special Interest Sessions

SIS59 – 21st Century workforce development: Changing the way we think about ITS education and training

Thursday 25 October 2012, 16.00–17.30

Stolz 2 Room

Around the world there are bits and pieces of training programmes and educational curricula related to ITS, and there have been some efforts to coordinate these on national and international scales. But we need to raise the bar on attracting and retaining the best professionals to the ITS field and part of this task will include changing the way we think about ITS education and training. We need to institutionalise the idea that training and education are not luxuries but rather are necessities. Join this session for an update on what is happening in ITS training and education and help formulate an international strategy for moving forward.

Organiser

Robert Bertini, Professor, Portland State University, USA

Invited Moderator

Robert Bertini, Professor, Portland State University, USA

Invited Speakers

Peter von Heidenstam, National Coordinator, Market and Planning, Swedish Transport Administration – STA, Sweden

Kimihiko Nakano, Associate Professor, The University of Tokyo, Japan

Alan Stevens, Research Director, Transport Research Laboratory – TRL, United Kingdom

Emil Simeonov, Professor, University of Applied Sciences Technikum Wien, Austria

John Collura, Professor, University of Massachusetts, USA

Hans van Lint, Associate Professor, Delft University of Technology, The Netherlands

Valerie Briggs, Team Lead, Knowledge Transfer and Policy, US DOT, USA

SIS60 – TPEG – a multimodal, bearer-independent, multi-platform travel information tool now reaching end-user

Thursday 25 October 2012, 16.00–17.30

Lehar 1 Room

Today, TPEG is available in several countries around the globe and it is gradually reaching end-users' cars.

This session proposes to have a deeper look into the development and the standardisation of the TPEG protocol, from the early days of the TPEG forum until the recent effective deployment. The session will especially focus on the aspects of TPEG and on the different factors which have enabled the deployment of both connected and broadcast services worldwide.

About TPEG: TPEG (Transport Protocol Experts Group) is a standardised protocol developed to deliver digital traffic and travel information independently from the bearer. TPEG refers to a whole set or toolkit of specifications offering a wide range of services to a wide range of users and devices. TPEG is standardised through ISO. The development and maintenance is being hosted at TISA (Traveller Information Services Association).

Organiser

Amaury Cornélis, Project Manager, Traveller Information Services Association – TISA

Invited Moderator

Bev Marks, Executive Director, Traveller Information Services Association – TISA

Invited Speakers

Representative from Federal Highway Research Institute – BAST, Germany

Joseph d'Angelo, Senior Vice-President, iBiquity, USA

Ulrich Fastenrath, Traffic technology and traffic management, BMW, Germany

Matthias Schmidt, Research Manager Interactive Systems (ISY), Fraunhofer FIRS, Germany

Martin Dreher, Project Manager, Bayerische Medien Technik GmbH (bmt), Germany

SIS61 – Emergency evacuation and ITS – Weather, and special events (Plan, implement, post event assessment)

Thursday 25 October 2012, 16.00–17.30

Lehar 2 Room

Evacuation of urban cores as the result of weather, human actions or conclusion of special events is enhanced through the utilisation of ITS tools and coordination. The movement of vehicles, pedestrians and non motorised transport is the most significant challenge. This session will focus on techniques for coordination, tools that are effective, and challenges for local and regional partners. Panellists will discuss what is the current state of ITS applications, tools, and processes in the planning, implementation and post event assessments.

Organiser

ITS America

Invited Moderator

TBD

Invited Speakers

Makoto Otsuki, Market Promotion Group, ITS Japan, Japan

Katja Schechtner, Head of Business Unit, Austrian Institute of Technology – AIT, Austria

Jeffrey Lindley, Associate Administrator for Operations, Federal Highway Administration – FHWA, US DOT, USA

Ben Pierce, Battelle, USA

SIS62 – Cooperative safety applications on rural road to support policy decision makers

Thursday 25 October 2012, 16.00–17.30

Lehar 3 Room

Cooperative systems in the field of road vehicles have been a subject for research and development for many years. Applications have been proposed for implementation as results of research and collaboration projects. When it comes to increasing the interest among the road operators and road authorities there is a need to show good examples. This session will demonstrate some vehicle to infrastructure applications where the road authorities/road operators have shown a clear interest in solving real problems that they have faced. The session gives examples from all three regions mainly in rural environment.

Organiser

Masao Fukushima, Engineering Director IT&ITS Engineering Department, Nissan Motors Co, Ltd., Japan

Invited Moderator

Bengt Hallström, Analyst, Swedish Transport Administration – STA, Sweden

Invited Speakers

Oliver Carsten, Professor of Transport Safety, Institute for Transport Studies, University of Leeds, United Kingdom

Masao Fukushima, Engineering Director IT&ITS Engineering Department, Nissan Motors Co, Ltd., Japan

Max Donath, Professor of Mechanical Engineering and Director, Intelligent Transportation Systems Institute, University of Minnesota, USA

Risto Öörni, Technical Research Centre – VTT, Finland

Special Interest Sessions

SIS63 – Bringing energy efficiency into goods transport

Thursday 25 October 2012, 16.00–17.30

Lehar 4 Room

Goods transport is accountable for 30% to 40% of road sector emissions. Various factors affect the specific energy consumption of freight transport and operation: vehicle/driver performance, delivery planning & routing, load sharing, etc. The potential of ICT applications targeting a more energy-efficient mobility of goods is high. Several initiatives in Europe (eCoMove, CITYLOG, Instant Mobility and FREILOT), as well as two US based projects, CVII and Trusted Truck(R), have developed and deployed cooperative ITS solutions for green logistics scenarios; they will present their experience and findings in this session.

Organiser

Zeljko Jeftic, Senior Project Manager, ERTICO – ITS Europe

Invited Moderator

Zeljko Jeftic, Senior Project Manager, ERTICO – ITS Europe

Invited Speakers

Florian Krietsch, Project Manager, PTV, Germany

Rafael Salinas, CITEC Manager, DHL Supply Chain, Spain

Luisa Andreone, Project Manager, Centro Ricerche Fiat – CRF, Italy

Jan Hellåker, Vice President, Business Development & Government Programmes, Volvo Technology, USA

Fernando Zubillaga Elorza, Project Manager, MLC ITS Euskadi, Spain

SIS64 – Users of ITS – the unknown aliens? Smart ways to identify user needs and to get users involved in the innovation process

Thursday 25 October 2012, 16.00–17.30

Schubert 1 Room

While insufficient consideration of human factors in the past often led to suboptimal results end-user needs now tend to play a more significant role in development and deployment of ITS based applications. This session will explore recent user involvement approaches in personal mobility framed by the Austrian “ways2go” RTI funding programme (www.ways2go.at). Experiences and Lessons learned will be presented in ITS application fields, which are expected to significantly serve societal needs but are particularly challenging in regards of deriving commercial products (sustainable mobility patterns, barrier-free transportation, etc.).

Organiser

Walter Wasner, Programme Owner Innovation and Technology in the field of Personal Mobility, Federal Ministry for Transport, Innovation and Technology – bmvit, Austria

Invited Moderator

Walter Wasner, Programme Owner Innovation and Technology in the field of Personal Mobility, Federal Ministry for Transport, Innovation and Technology – bmvit, Austria

Invited Speakers

Roland Krpata, Expert for barrier free design, Wiener Linien, Austria

Karl Rehrl, Head of Mobile and Web-based Information Systems research department (MOWI), Salzburg Research Forschungsgesellschaft m.b.H, Austria

Christian Steger-Vonmetz, Mobility Management Consultant, Bregenz, Austria

Klaus Heimbuchner, Project Manager, ITS Vienna Region, Austria

Lucas Paletta, Key Researcher, JOANNEUM RESEARCH Forschungsgesellschaft mbH, DIGITAL – Institute for Information and Communication Technologies, Austria

Alexandra Millionig, Scientist, AIT Austrian Institute of Technology GmbH, Mobility Department, Dynamic Transportation Systems, Austria

Bob McQueen, Vice President, International Business Development, Roadway Sensors, Iteris Inc., USA

SIS65 – How to Sell ITS to Political Decision Makers

Thursday 25 October 2012, 16.00–17.30

Schubert 2 Room

Intelligent Transport Systems can successfully contribute to achieving politicians' key transport policy objectives. This session will address the advantages of international cooperation in getting ITS on the political agenda. It will look into the key political arguments for investing in ITS and how these can be, and have been, used in a number of countries to get the political debate going. The session will bring together experience and good practice in kicking off stakeholder dialogue on the political relevance and benefits of ITS, with examples from national, state/regional and local levels.

Organiser

Caroline Visser, Programme Manager, International Road Federation – IRF

Invited Moderator

Josef Czako, Chairman of the IRF Policy Committee on ITS, Director International Business Development, Kapsch TrafficCom, Austria

Invited Speakers

Alfonso de la Parra, General Manager, Tecnosistemas y Peaje, Mexico

Shri C. Kandasamy, Additional Director General, Ministry of Road Transport & Highways, India

Eva Molnar, Director Transport Division, UNECE

Jack Opiola, Managing Partner, D'Artagnan Consulting, USA

Eric Janse de Jonge, former Member of 1st Chamber (Senate) for the CDA, Houses of Parliament, The Netherlands

SIS66 – Connected vehicles, infrastructure and users for cooperative mobility: Collaboration between the automotive industry and road operators

Thursday 25 October 2012, 16.00–17.30

Schubert 3 Room

The World Road Association (PIARC) and the international society of automobile engineers (FISITA) Joint Task Force on intelligent cooperative vehicles published an initial report on CVHS for road operators and motor manufacturers. The JTF is continuing to work on overcoming barriers to deployment. This session will feature updates on the collaboration, consider the current the state of the art and provide foresight on future developments in cooperative systems around the world. The session will also invite interested parties to join the JTF to help accelerate the deployment of CVHS.

Organiser

Richard Harris, English Language Secretary, World Road Association – PIARC, Solution Director, Xerox, United Kingdom

Invited Moderator

Jacques Ehrlich, Chairman, World Road Association technical Committee on Network Operations, Head of Laboratory on the Interactions Vehicles / Infrastructure / Driver at The French institute of science and technology for transport, development and networks – IFSTTAR, France

Invited Speakers

Richard Harris, English Language Secretary, World Road Association – PIARC, Solution Director, Xerox, United Kingdom

Fumihiko Kanazawa, Head, ITS Division, National Institute for Land and Infrastructure Management, Ministry of Land, Infrastructure, Transport and Tourism – MLIT, Japan

T Russell Shields, Chair, Ygomi, USA

Yuji Nakajima, Senior Engineer, Planning and Advanced Engineering Development Division, Nissan Motors Co, Ltd., Japan

Paul Kompfner, Head of Sector CooperativeMobility, ERTICO – ITS Europe

Special Interest Sessions

SIS67 – From large-scale Field Operational Tests to deployment

Thursday 25 October 2012, 16.00–17.30

Schubert 4 Room

This special session will present the results obtained through two large-scale European Field Operational Tests, one on the impact of 8 distinct Active Safety Systems that assist the driver in detecting hazards, preventing accidents and making driving more efficient (euroFOT) and another on the impact of aftermarket nomadic devices (TeleFOT) on safety, mobility and the environment. Additionally, lessons learned from US efforts in this field will be presented through an overview of several US-FOTs conducted during the past 4 years.

Organiser

Aria Etemad, Senior Research Coordinator, Ford Research & Advanced Engineering Europe, Germany

Invited Moderator

Wolfgang Höfs, Head of Sector, European Commission, DG CONNECT

Invited Speakers

Aria Etemad, Senior Research Coordinator, Ford Research & Advanced Engineering Europe, Germany

Mohamed Benmimoun, Researcher, Aachen University, Germany

Torsten Geissler, Scientific Officer, Federal Highway Research Institute – BAST, Germany

Petri Mononen, Senior Scientist, Technical Research Centre – VTT, Finland

Andrew Morris, Reader in Vehicle Safety, Loughborough University, United Kingdom

Jim Sayer, Associate Research Scientist, University Of Michigan, USA

SIS68 – Global deployment of Car-2-Xcommunication technology

Thursday 25 October 2012, 16.00–17.30

Schubert 5 Room

In the last decade, various research and development activities in car-to-car and car-to-infrastructure communication have reached a mature technological level. Field operational tests and pilots have been initiated in order to assess the technology and its impact on road safety and traffic efficiency. Standardisation development organisations (CEN, ETSI, IEEE, ISO, ITU) are creating standards. Stakeholders are getting serious about the introduction and sustainable deployment. This special session gives a technical overview on the world-wide deployment of Car-2-X communication technologies and analyses commonalities and similarities.

Organiser

Andreas Festag, Chief Researcher, NEC Laboratories Europe, Germany

Invited Moderator

Andreas Festag, Chief Researcher, NEC Laboratories Europe, Germany

Invited Speakers

Mike Shulman, Manager Active Safety Research & Advanced Engineering, Ford Motor Company, USA

Guan Jizhen, Expert, ITS China, China

Takeshi Yamamoto, Chair ITS Info-Communications Forum, Vehicle Communication Systems International WG, Japan

Paul Gray, CEO, Cohda Wireless, Australia

Lan Lin, Hitachi Europe Ltd., Senior Researcher, France

SIS69 – ITS and sustainable logistics: Lean and Green

Thursday 25 October 2012, 16.00–17.30

Schubert 6 Room

Lean and Green is an international programme in which companies are challenged to rise to a higher level of sustainability by taking measures that not only reduce company costs, but reduce carbon emission as well. Currently, Lean and Green supports 250 front runners to help them increase profits, while reducing carbon emission by at least 20% in five years time.

By combining the Lean and Green concept to the developments in the field of ITS, deployment and use ITS in road transport can accelerate and can thereby contribute to the goals of the ITS Action Plan.

Organiser

Annemieke de Leeuw, Programme Manager, Connekt/ITS Netherlands, The Netherlands

Invited Moderator

Erik Koopman, Business Development Manager, Siemens, The Netherlands

Invited Speakers

Nico Anten, Managing Director, Connekt/ITS Netherlands, The Netherlands

Roberta Gili, President, Freight Leaders Council, Italy

Eva Schelin, Head of Department Policy & Systems, Governmental Agency for Innovation – VINNOVA, Sweden

Koen Valgaeren, Managing Director, Flanders Institute for Mobility, Belgium

SIS70 – Challenges for distribution of road related information

Thursday 25 October 2012, 16.00–17.30

Business Suite 1 Room

The digital map with assigned the permanent ID to each road enhances the quality of the information infrastructure. This enables all map users, from road administrator to general public, to exchange the mutual information relevant to the road networks each other even if they use the different maps and tools.

In Japan, the assignment of ID has been completed for more than 200,000km of major roads.

In this session, the principle of this idea will be introduced and the related activities will be shared.

Organiser

Makoto Otsuki, Senior Vice President, Market Promotion Group, ITS Japan, Japan

Invited Moderator

Satoru Nakajo, Senior Consultant, Mitsubishi Research Institute, Inc., Japan

Invited Speakers

Takeshi Doihara, Fellow and Director Development Division, Digital Road Map Association, Japan

Trond Hovland, Director, ITS Norway, Norway

Soo Young Lee, Executive Director, Korea Automotive Technology Institute, Korea

Takahiro Ueno, ITS Policy and Program Office, Road Bureau, Ministry of Land, Infrastructure, Transport and Tourism – MLIT, Japan

Passakon Prathombutr, President, Thai ITS Association, Thailand

Special Interest Sessions

SIS71 – ITS European Congress in Dublin 2013

Thursday 25 October 2012, 16.00–17.30

Business Suite 2 Room

The 9th ITS European Congress in Dublin 2013 will primarily focus on ITS solutions that are driven by policy as opposed to being technology led, while addressing real mobility issues that regions/cities/towns/authorities face on a day to day basis.

Dublin is the European head office for some of the biggest global technology brands such as Google, Facebook, IBM Smarter Cities, eBay, Intel and DELL to name a few.

Come to Dublin to see where ITS is making a difference, from the Dublin bike scheme, to Integrated Ticketing, from Variable Price Tolling to Variable Messaging, from Smarter Traffic Controls to Real Time Traveller Information.

Organiser

Mark Kenny, Smarter Transport Lead, IBM Ireland Ltd/ITS Ireland, Ireland

Invited Moderator

Mark Kenny, Smarter Transport Lead, IBM Ireland Ltd/ITS Ireland, Ireland

Invited Speakers

Erik-Mark Huitema, Smarter Transportation Leader Europe/SME, IBM, The Netherlands

John Davis, Director, ITS Ireland, Ireland

Brendan O'Brian, Head of Traffic, Dublin City Council, Ireland

David Laoide-Kemp, ITS Project Manager, National Roads Authority, Ireland

Senan McGrath, Chief Technical Officer, ESB EV, Ireland

SIS73 – Cloud computing on ITS

Friday 26 October 2012, 09.00–10.30

Stolz 1 Room

The cloud-computing not only allows transportation agencies to minimise resources required for recurring operation and maintenance, but also greatly expedites the ability to implement new applications and services. In this special session, how cloud computing could help to achieve the Intelligent Transportation System more seamless with less resources will be discussed in-depth with the honourable speakers from all over the world sharing about how they perceive the future trends of transportation cloud computing respectively in terms of legal framework, technical and commercial aspects.

Organiser

S.K. Jason Chang, Vice President, ITS Taiwan, Chinese-Taipei/Ministry of Economic Affairs, Chinese Taipei and Sonic Liao, Associate Planner, Smart Network System Institute, Institute for Information Industry, Chinese-Taipei

Invited Moderator

Juhani Jääskeläinen, Adviser for ICT for Transport & Energy, European Commission, DG CONNECT

Invited Speakers

Yuji Nakajima, Senior Engineer, Global Government Affairs Department – Environmental and Safety Technologies Planning and Advanced Engineering Development Division, Nissan Motor Co., Ltd., Japan

Kuen-Rong Lo, Project Manager, ITS/Telematics Project, Telecommunication Laboratories, Chunghwa Telecom Co. Ltd., Chinese-Taipei

Luca Delgrossi, Director Driver Assistance & Chassis Systems US, Mercedes-Benz Research & Development North America, Inc., USA

Peter Chou, Chairman, Shanghai Transportation Electronics Association, China

Shu-Min Chuang, Advisory Engineer, Smart Network System Institute, Institute for Information Industry – III, Chinese-Taipei

SIS74 – Implementing the European electronic toll service – What challenges remain?

Friday 26 October 2012, 09.00–10.30

Stolz 2 Room

This Special Session will review the current implementation status of the European Electronic Toll Service (EETS), due to be operational at the time of the Vienna Congress. The session will highlight the progress made over recent months and draw out and explore any issues or barriers that remain to a fully operational system. The speakers represent key stakeholders responsible for specifying, delivering, operating and overseeing the EETS. The session will briefly explore their perspectives followed by a round table discussion that will additionally seek insights and observations from the audience.

Organiser

Jennie Martin, Secretary General, ITS (UK), United Kingdom

Invited Moderator

Duncan Matheson, Director, PA Consulting Group, United Kingdom

Invited Speakers

Charles Surmont, Policy Officer, European Commission, DG MOVE

Jan-Willem Tierolf, Rijkswaterstaat, The Netherlands

Bernd Datler, Managing Director, ASFINAG Maut Service GmbH, Austria

Jesper Engdahl, CEN Contributor, Rapp, Switzerland

Josef Czako, Director, International Business Development, Kapsch TrafficCom, Austria

Friedemann Kirn, Account Director International, T-Systems / Satellic, Germany

Anne Grünkorn, Head of Marketing & International Relations, DVB Logpay GmbH, Germany

Special Interest Sessions

SIS75 – Integrated dynamic transit operations: Can public transport realise the potential of connected vehicles, travellers and infrastructure?

Friday 26 October 2012, 09.00–10.30

Lehar 1 Room

The USDOT is engaged in assessing applications that realise the full potential of connected vehicles, travellers and infrastructure to enhance current operational practices and transform future surface transportation systems management. One foundational element of this effort is the Dynamic Mobility Applications Program, which includes a bundle of applications identified as Integrated Dynamic Transit Operations. The applications in the IDTO bundle, Connection Protection, Dynamic Transit Operations and Dynamic Ridesharing, ultimately will enable transit systems to provide better information to travellers and increase the quality of service. This session will explore current IDTO applications around the world.

Organiser

Carol Schweiger, Vice President, TranSystems Corporation, USA

Invited Moderator

Carol Schweiger, Vice President, TranSystems Corporation, USA

Invited Speakers

Brendon Hemily, Public Transportation Consultant, ITS America, Canada

Hans Fiby, Project Manager, ITS Vienna Region, Austria

Stephan Seyboth, Google Product Manager, Google, Switzerland

Patrick Mercier-Handisyde, European Commission, DG RTD

Speaker from Asia-Pacific

SIS76 – Advanced integrated safety applications based on enhanced perception, active interventions and new advanced sensors

Friday 26 October 2012, 09.00–10.30

Lehar 2 Room

This special session will outline innovative developments within the interactive, Minifaros and 2WIDE-SENSE research projects. The results of the work within Interactive relevant to the perception of the environment in the vicinity of the subject vehicle, the Information Warning and Intervention (IWI) strategies and the relevant applications (i.e. continuous driver support, collision avoidance, and collision mitigation) will be presented. The innovative low-cost low power, miniature laser scanner developed within Minifaros and the cost effective multi-spectral, multifunctional, wide dynamic range camera, which is application-independent, developed within 2WIDE-SENSE will be also presented.

Organiser

Angelos Amditis, Researcher Director, Institute of Communication and Computer Systems – ICCS, Greece

Invited Moderator

Representative from European Commission, DG CONNECT

Invited Speakers

Aria Etemad, Senior Research Coordinator, Ford Research & Advanced Engineering Europe, Germany

Philip Heck, Technical Project Manager, Group Research K-EFFS/I, Integrated Safety & Light, Volkswagen, Germany

Kay Fuerstenberg, Manager CU Research, SICK AG, Germany

Angelos Amditis, Researcher Director, Institute of Communication and Computer Systems – ICCS, Greece

Andrea Saccagno, Project Manager, ADASENS Automotive GmbH, FICOSA INTERNATIONAL S.A., Spain

SIS77 – Connected vehicle research in the United States and international observations

Friday 26 October 2012, 09.00–10.30

Lehar 3 Room

The US DOT is moving quickly to implement the Connected Vehicle Research Program. At the centre of the programme is the NHTSA Agency Decision in 2013 about the role of DSRC on light vehicles to improve safety. The USDOT will provide updates on the Safety Pilot, V2I Enabling technologies, Policy and Decision Milestones. USDOT is working closely with the European Commission and Japan regarding our research and deployment efforts, and they will provide observations and comparisons of the US programme to the related programme in the European Commission and at MLIT.

Organiser

Brian Cronin, Team Leader Research, ITS Joint Program Office, US DOT, USA

Invited Moderator

Brian Cronin, Team Leader Research, ITS Joint Program Office, US DOT, USA

Invited Speakers

Mike Schagrin, Connected Vehicle Safety Lead, RITA ITS JPO, USA

Carl Andersen, Vehicle to Infrastructure Programme Manager, Federal Highway Administration – FHWA, USA

Ray Resendes, Chief Intelligent Technologies Research Division, National Highway Traffic Safety Administration – NHTSA, USA

Wolfgang Höfs, Head of Sector, European Commission, DG CONNECT

Koichi Sakai, Senior Researcher, ITS Division, National Institute of Land and Infrastructure Management – NILIM, Ministry of Land, Infrastructure, Transport and Tourism – MLIT, Japan

SIS78 – Global perspectives – Cooperative energy efficiency applications

Friday 26 October 2012, 09.00–10.30

Lehar 4 Room

The potential of in-vehicle and traffic management applications to cut down fuel consumption and emission has been widely acknowledged. Especially if they act in collaboration and interaction-effects create synergies both within and between domains. Cooperative technology plays a central role. This session offers an overview of results from pilots and validation activities, successful applications and deployment aspects. On the basis of empirical findings speakers will address interaction-effects cross domains and indicate whether re-bounce effects and/or synergies exist. The session converges to a global research agenda for on-going and future activities.

Organiser

Jaap Vreeswijk, Traffic Engineering Researcher, Sub-project leader in eCoMove for ecoTraffic Management and Control, Peek Traffic bv, The Netherlands

Invited Moderator

Jaap Vreeswijk, Traffic Engineering Researcher, Sub-project leader in eCoMove for ecoTraffic Management and Control, Peek Traffic bv, The Netherlands

Invited Speakers

Hesham Rakha, Professor of Civil and Environmental Engineering and Director, Centre for Sustainable Mobility, Virginia Tech, USA

Takashi Oguchi, Professor, The University of Tokyo, Japan

Siebe Turksma, Product Manager Research, Peek Traffic bv, The Netherlands

Luisa Andreone, Project Manager, Centre Ricerche Fiat – CRF, Italy

Burak Onur, R&D Support Executive, TEMSA Global, Turkey

Special Interest Sessions

SIS79 – Data and information exchange based on public digital road maps as enabler for cross-border traveller information services

Friday 26 October 2012, 09.00–10.30

Schubert 1 Room

An increasing number of ITS applications rely on the availability of accurate digital maps including traffic related attributes such as traffic regulations. A key pillar of Europe's ITS Action Plan is the definition of the necessary requirements to make such data that is owned by public authorities available to European citizens via improved Traveller Information Services.

This session deals with national and regional approaches to provide accurate public data for digital maps in a "standardised" way with a focus on the potential to merge different approaches to serve the European traveller.

Organiser

Martin Böhm, Head of Unit ITS Deployment, AustriaTech, Austria

Invited Moderator

Martin Böhm, Head of Unit ITS Deployment, AustriaTech, Austria

Invited Speakers

Hans Fiby, Project Coordinator, ITS Vienna Region, Austria

Dean Herenda, Head of Section, Ministry of Transport, Slovenia

Jürgen Ross, Head of Planning and Traveller Information, VBB, Germany

Pekka Eloranta, Project Manager, Mobisoft Oy, Finland

Michael Kieslinger, Managing Director, Fluidtime, Austria

SIS80 – Opportunities for improving commercial vehicle productivity with smart infrastructure and applications

Friday 26 October 2012, 09.00–10.30

Schubert 2 Room

This session will share joint developments occurring or planned between governments and industry for border crossings, security, commercial vehicle regulations and traffic information. Participants will include states, provinces, countries, trucking manufactures, fleet operators and could cover both land and water efforts.

Organiser

Jim Wright, AASHTO C.V. Program Manager, American Association of State Highway Transportation Officials – AASHTO, USA

Invited Moderator

John Njord, Director, Utah DOT, USA

Invited Speakers

Susan Spencer, Director, Intelligent Transportation Systems Policy, Transport Canada, Canada

Hong Seung Roh, Research Fellow, The Korean Transport Institute – KOTI, Korea

Joseph Averkamp, Senior Vice President, Business and Sales, Kapsch TrafficCom U.S. Corp., USA

Speaker from Europe

SIS81 – ITS World Congresses in Tokyo 2013 and beyond

Friday 26 October 2012, 09.00–10.30

Schubert 3 Room

The 20th ITS World Congress will be held in Tokyo with the theme of "Open ITS to the Next".

Towards next mobility and society, from the point of four phrases of "OPEN" mentioned below will be discussed: Open Platform & Interface (Safety, and congestion elimination), Open Connectivity (Environmentally friendly transport and energy management), Open Opportunities (Service orientated efficient transport modes), and Open Collaboration (Resilient Society against disaster).

The organising committee is working to prepare the congress in regard with programme highlights, showcase & technical visits, exhibition, and ceremonies.

Organiser

Toshimichi Hanai, Secretary General, 20th ITS World Congress Tokyo 2013, Japan

Invited Moderator

Hidehiko Akatsuka, Senior Vice President, ITS Japan, Japan

Invited Speakers

Nobuyuki Ozaki, Chair, Programme Subcommittee, ITS World Congress Tokyo 2013, Japan

Speakers from USA

Speakers from Europe

SIS82 – Cross organisational cooperation boosting sustainable commuting

Friday 26 October 2012, 09.00–10.30

Schubert 4 Room

Too often major investments in infrastructure are made without a holistic view on society development. To create a sustainable society politicians and decision makers need to share a common vision concerning a region's development to be able to act and tackle the challenges involved in creating improvements for daily commuting. This session will share best practices of cross organisational cooperation to create sustainable commuting, boosting investments in multimodal infrastructure with enhanced traffic management, a wide range of ITS services and applications, as well as marketing and communication.

Organiser

Susanne Planath, Head of Road user and Society, Western Region, Swedish Transport Administration – STA, Sweden

Invited Moderator

Susanne Planath, Head of Road user and Society, Western Region, Swedish Transport Administration – STA, Sweden

Lilia Halsen-Bidar, Senior Project Manager ITS, SWECO infrastructure, Sweden

Invited Speakers

Ma-Lou Wihlborg, Director ITS & Mobility Management, Traffic and Public Transport Authority, City of Gothenburg, Sweden

Kari Finnskog, IT Director, West Sweden Public Transport Company, Vasttrafik, Sweden

Tiina Tuurnala, Director, Traffic Management, Finnish Traffic Agency, Finland

Tiffany Vlemmings, Project manager Innovations, Nationale Databank Wegverkeersgegevens, and member of Urban ITS Expert group, The Netherlands

Angelika Winkler, Head of Department of Transport and City Development, City of Vienna, Austria

Special Interest Sessions

SIS83 – Cooperative ITS for now and the next

Friday 26 October 2012, 09.00–10.30

Schubert 5 Room

Speakers will be discussing the experiences of Cooperative ITS systems from real world and field operational testing and how these ITS systems contribute society from traffic safety or the other point of view. The other discussion point is performance study like Real performances of Cooperative ITS systems vs. expected performance. As the summary of the session, the attendees will discuss the subjects to be resolved for further Cooperative ITS system Deployment.

Organiser

Takahiko Uchimura, Vice President, ITS Japan, Japan

Invited Moderator

Takahiko Uchimura, Vice President, ITS Japan, Japan

Invited Speakers

Markus Bauer, BMW Group, Total Vehicle Architecture and Integration Integrated Safety, Germany

Masao Fukushima, General Manager, Planning and Advanced Engineering Development Division, NISSAN Motor CO., LTD, Japan

Christian Röss, Technical Expert, Research & Advanced Engineering, Ford Motor Company, Germany

SIS84 – Modelling impacts of ITS applications on CO₂ emission

Friday 26 October 2012, 09.00–10.30

Schubert 6 Room

The global perspective sessions all have input from the three regions (EU, Japan and US), and focus on the assessment of CO₂ impacts of ITS. The sessions are in consecutive order following the line of designing applications, modelling the impacts and validating the results. The evaluation methods of CO₂ reduction by ITS applications are developed with different approaches. Therefore this special session is focusing on each evaluation method of Japanese, European and American projects. The Japanese team presents the draft of the Joint Technical Report as a common evaluation standard.

Organisers

Martijn de Kievit, project manager ECOSTAND, Netherlands Organisation for Applied Scientific Research – TNO & Tsuyoshi Yamashita, Deputy Director, Automobile Division, Ministry of Economy, Trade and Industry – METI, Japan

Invited Moderator

Masao Kuwahara, The University of Tokyo, Japan

Invited Speakers

Zissis Zamaras, Professor Mechanical Engineering, Aristotle University of Thessaloniki and project manager of the FP7 ICT-Emissions project, Greece

Gerdien Klunder, Research scientist, Netherlands Organisation for Applied Scientific Research – TNO and project manager of the FP7 AMITRAN Project, The Netherlands

Steve Shladover, Research Engineer, California PATH – Truck platooning, USA

Mitsuo Yonezawa, General Manager, Japan Automobile Research Institute – JARI, Japan

Ryota Horiguchi, CEO, iTransport-Lab, Japan

SIS85 – Innovative planning processes for ITS and operations

Friday 26 October 2012, 09.00–10.30

Business Suite 1 Room

The US DOT is engaged in assessing applications that realise the full potential of connected vehicles, travellers and infrastructure to enhance current operational practices and transform future surface transportation systems management. One foundational element of this effort is the Dynamic Mobility Applications Program, which includes a bundle of applications identified as Integrated Dynamic Transit Operations. The applications in the IDTO bundle, Connection Protection, Dynamic Transit Operations and Dynamic Ridesharing, ultimately will enable transit systems to provide better information to travellers and increase the quality of service. This session will explore current IDTO applications around the world

Organiser

Manjunathan Kumar, Research Coordinator, Nevada DOT, USA

Invited Moderator

Tracy Larkin-Thomason, Assistant Director of Planning, Nevada DOT, USA

Invited Speakers

Valerie Briggs, Team Lead, Knowledge Transfer and Policy, US DOT, USA

Monica Giannini, International Cooperation, Pluservice S.r.L., Italy

Speaker from Asia-Pacific

SIS86 – Cognitive Load and In-Vehicle Human–Machine Interaction

Friday 26 October 2012, 09.00–10.30

Business Suite 3/4 Room

Cognitive load imposed by in-vehicle technology such as traffic information and entertainment systems is one of the key risk factors for driving safety. Even if eyes are on the road and hands on the steering wheel, phenomena like "inattention blindness" or reduced decision capacities can lead to hazardous situations.

Discussing, investigating and understanding the drivers' interaction is critically important in limiting unsafe use and in developing countermeasures.

This session seeks to provide its attendees with a compressed update on achievements in cognitive load research. Experts from the US, Europe and Japan will report on recent results from standardisation and guideline development, including:

- US/EU attention and distraction cooperative group
- ITU-T Focus Group on Driver Distraction
- Guidelines sponsored by NHTSA
- The EC co-funded project Interaction
- Workshop series on Cognitive Load and In-Vehicle HMI

Organiser

Andrew L. Kun, Associate Professor, University of New Hampshire, USA

Invited Moderator

Peter Fröhlich, Area Manager, Telecommunications Research Center – FTW, Austria

Invited Speakers

Scott Pennock, Chairman of ITU-T Focus Group on Driver Distraction, Senior Hands-Free Standards Specialist, QNX, Canada

Johan Engström, Senior Project Manager, Volvo Technology, Sweden

James Foley, Senior Principal Engineer, Collaborative Safety Research Center, Toyota Technical Center, USA

Kazumoto Morita, Senior Researcher, National Traffic Safety and Environment Laboratory, Japan

Corinne Brusque, Director, French Institute of Science and Technology for Transport, Development and Networks – IFSTTAR/LESCOT, France

Tim Johnson, Office Director, US DOT, USA

Special Interest Sessions

SIS87 – Future strategy for road transport policy using probe data

Friday 26 October 2012, 11.00–12.30

Strauss 2 Room

As R&D of ITS cooperative systems have been promoted, the possibility of utilisation for the probe system is increasing with IT technology and Communication technology. Regarding policy of road traffic, more efficient and intelligent O&M for road and measures for traffic jam and traffic safety are needed for declining managing cost.

In this session, case studies and study findings of road traffic policy using probe system, which includes collaboration research between Japan and US, will be presented by the delegates from public and private sector of trilateral countries as well as possibility of international cooperation in the future.

Organiser

Takahiro Ueno, ITS Policy and Program Office, Ministry of Land Infrastructure, Transport and Tourism – MLIT, Japan

Invited Moderator

Hironao Kawashima, Emeritus Professor, Keio University, Japan

Invited Speakers

Takashi Nishio, Senior Deputy Director, ITS Policy and Program Office, Road Bureau, Ministry of Land, Infrastructure, Transport and Tourism – MLIT, Japan

Brian Cronin, Team Leader Research, ITS Joint Program Office, US DOT, USA

Speakers from Europe



Technical/Scientific Sessions

■ Scientific Paper

TS001 – Traffic & network management – Urban (1)

Tuesday 23 October 2012, 14.00–15.30

Stolz 1 Room

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| <p>AM-00019 New York City midtown in motion ITS deployment project and operation for NYC active traffic management
William McShane, KLD, USA</p> <p>EU-00072 Transport management procedures as elements of traffic telematics – based on the example of approvals issued for “works on the road or by the roadside” by the City of Vienna
Rainer Haselberger, City of Vienna, Austria</p> <p>EU-00162 TrafficCheck.at – an online feedback platform for traffic lights
Georg Krieberegg, IKK Kaufmann-Krieberegg ZT-GmbH, Austria</p> | <p>AP-00246 Development of od data-based dynamic simulator
Koichiro Tani, Tokyo Metropolitan Police Department, Japan</p> <p>AP-00271 Indicative traffic control performance of the SCATS installation in New South Wales including Sydney
Christian Chong-White, Roads and Maritime Services, Australia</p> <p>EU-00670 Using AVL raw data for regularity diagnosis on bus networks and route directions
Benedetto Barabino, Technomobility s.r.l., Italy</p> |
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TS002 – Road user charging (1)

Tuesday 23 October 2012, 14.00–15.30

Stolz 2 Room

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| <p>EU-00174 Importance of SLA performance auditing in electronic tolling operation
Michal Bodnar, Logica, Slovakia</p> <p>EU-00312 Next challenge to road user charging in Sweden
Mattias Andersson, Swedish Transport Administration – STA, Sweden</p> <p>EU-00402 Combined use of GLONASS and GPS in electronic tolling
Norbert Schindler, Siemens, Austria</p> | <p>EU-00567 TollWatch, a Tool for Toll Management Optimisation
Jean-Marc Morin, Egis, France</p> <p>EU-00609 Update on effects of the Gothenburg congestion charging scheme
Björn Öhman, WSP, Sweden</p> <p>EU-00616 Congestion charging: learning the lessons and moving forward
John Walker, University of Southampton, United Kingdom</p> |
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TS003 – Multi-modal journey planners

Tuesday 23 October 2012, 14.00–15.30

Lehar 1 Room

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| <p>EU-00009 SMART-WAY: A mobile navigation system for public transport
Stefan Tönjes, Fraunhofer IVI, Germany</p> <p>EU-00104 Public transport ambassadors and the travel desk
Johan Janse, DTV Consultants, The Netherlands</p> <p>EU-00275 Autonomous journey information services for trip planners. E-WISETRIP and GAMBAS projects
Manuel Serrano, ETRA I+D, Spain</p> | <p>EU-00280 Seamless and integrated trip planning for older people: findings from the OASIS project
Simon Edwards, Newcastle University, United Kingdom</p> <p>EU-00308 Multimodal traffic information portal for Norway
Per-Olof Svensk, Triona AB, Sweden</p> <p>EU-00570 Open Street Map based bicycle planner
Jens Peder Kristensen, KeyResearch, Denmark</p> |
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TS004 – Driver assistance & support systems (1)

Tuesday 23 October 2012, 14.00–15.30

Lehar 2 Room

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| <p>AP-00015 Consideration of automatic pressurising brake control for obstacle-avoidance manoeuvres
Takuya Hirano, ADVICS CO. Ltd., Japan</p> | <p>EU-00638 In-vehicle safety technologies of the future: To what extent will they increase safety?
Ryan Allard, Instituto Superior Técnico, Portugal</p> |
| <p>EU-00250 Environment modelling for future ADAS functions
Ralph Grewe, A.D.C. GmbH, Germany</p> | <p>EU-00661 AVOIDANCE - Collision avoidance system in a passenger vehicle
David Sanchez, CTAG, Spain</p> |
| <p>EU-00255 CoVeL: A cooperative road solution based on EGNOS to improve road mobility
Marcus Obst, Chemnitz University of Technology, Germany</p> | |

TS005 – V2I applications (1)

Tuesday 23 October 2012, 14.00–15.30

Lehar 3 Room

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| <p>AP-00131 Development of vehicle-infrastructure cooperative driving safety support system
Masayuki Hosokawa, Toyota Motor Corporation, Japan</p> | <p>EU-00411 Mobile device integration with V2X communication
Tim Leinmueller, DENSO, Germany</p> |
| <p>AP-00181 Development of driving safety support systems for non-right-of-way vehicles at unsignalised intersections - Extending the functionality of existing driving safety support systems
Noriyuki Tsukada, Nissan Motor, Japan</p> | <p>EU-00595 Cooperative traffic signals under adaptive UTC
Rene Burke, Transport for London, United Kingdom</p> |
| | <p>EU-00632 ITS industry best practice for cooperative systems
Manuel Milli, MIZAR SpA, Italy</p> |
| | <p>EU-00667 ITS station experimentations in real test tracks
Hasnaâ Aniss, French institute of science and technology for transport, development and networks - IFSTTAR, France</p> |

TS006 – Eco-traffic management (1)

Tuesday 23 October 2012, 14.00–15.30

Lehar 4 Room

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| <p>EU-00188 Traffic network simulation environment for the co-operative eCoMove system
Paul Mathias, MAT.TRAFFIC, Germany</p> | <p>EU-00448 Energy efficient intersection control - Pilot Evaluation Results
Eric Koenders, PEEK Traffic, The Netherlands</p> |
| <p>EU-00282 Bus priority by GPS-detection
Anders Torp Madsen, City of Copenhagen, Denmark</p> | <p>EU-00677 Impacts of Green Driving Application in City Buses
Satu Innamaa, Technical Research Centre - VTT, Finland</p> |
| <p>EU-00295 An emission dynamic meso-simulation model to evaluate traffic strategies in a wide urban network
Marialisa Nigro, Roma Tre University, Italy</p> | <p>EU-00709 Using integrated air quality data through UTMC to better inform traffic operators and other stakeholders
Paul Rose, Amey, United Kingdom</p> |

TS007 – Environmental impact reduction (1)

Tuesday 23 October 2012, 14.00–15.30

Schubert 1 Room

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| <p>AM-00053 Integrated operation of ATMS and environmental system: A case study
Farhad Pooran, Telvent, USA</p> <p>EU-00193 Integrated strategic performance toolkit for cooperative scheme comparisons in inter-urban Intelligent Transport Services
Ben Kolosz, University of Leeds, United Kingdom</p> <p>AP-00268 SCATS and the environment study: definitive results
Christian Chong-White, Roads and Maritime Services, Australia</p> | <p>EU-00430 Using key performance indicators for traffic management and Intelligent Transport Systems as a prediction tool
Niv Eden, Transportation Research Institute, Israel</p> <p>EU-00482 Evaluation of carbon reduction traffic measures employing a novel approach to micro-simulation modelling of real-world emissions
Fabio Galatioto, Newcastle University, United Kingdom</p> <p>EU-00328 Social networking sites as a means to encourage sustainable mobility
Rebecca Hutchins, Transport Research Laboratory – TRL, United Kingdom</p> |
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TS008 – Policy & strategy (1)

Tuesday 23 October 2012, 14.00–15.30

Schubert 2 Room

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| <p>AM-00018 El Segundo area ITS project arterial traveler information using probe based traffic data
Michael Wieck, Iteris, USA</p> <p>EU-00147 ITS Manuals and training within Sweden, Norway and Denmark
Lilia Halsen Bidar, Sweco AB, Sweden</p> <p>EU-00198 Use of position paper regarding ITS for industry/government agencies
Roberto Bauducco, Swedish Transport Administration – STA, Sweden</p> | <p>EU-00204 BayernInfo – traveller information services as a means for fostering new mobility concepts
Ulrich Haspel, Bavarian Road Administration, Germany</p> <p>AP-00273 Introduction of ITS Technology to Hyderabad Metropolitan Area
Noboru Kondo, East Nippon Expressway Company Ltd., Japan</p> |
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TS009 – Traffic control – Systems modelling (1)

Tuesday 23 October 2012, 14.00–15.30

Schubert 3 Room

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| <p>EU-00078 Role of microscopic simulation in designing and optimising TMS
Gregor Pretnar, PNZ Ltd., Slovenia</p> <p>EU-00107 Ex-ante evaluation of the deployment of variable speed limits by the use of simulation on the Lorrain corridor in France
Sylvain Belloche, CETE de Lyon, France</p> <p>EU-00284 Iterative adaptive compensation of modeling uncertainties in emission control of freeway traffic
József Tar, Óbuda University, Hungary</p> <p>EU-00387 Social force model for vehicle simulation on operational level
Weinan Huang, Graz University of Technology, Austria</p> <p>EU-00454 Estimation of travel times on signalised arterials
Ivana Cavar, University of Zagreb, Croatia</p> <p>AM-00059 New York City use of non-intrusive vehicle detectors to estimate vehicle average speeds in Lower Manhattan
Raymundo Martinez, TransCore ITS/JHK Engineering P.C., USA</p> <p>AP-00063 Utilisation of probe data collected by ITS Spot for road management</p> | <p>Takeshi Wakatsuki, NILIM, Ministry of Land, Infrastructure, Transport and Tourism – MLIT, Japan</p> <p>EU-00203 Open traffic data collection methods for transport strategic planning and travel information in large metropolitan cities: The case of Athens
George Sarros, INFOTRIP SA, Greece</p> <p>EU-00524 A methodology for traffic state estimation and signal control utilising high wireless device penetration
Simon Box, University of Southampton, United Kingdom</p> <p>EU-00564 Accuracy of travel time estimation using Bluetooth technology: Case study Limfjord tunnel Aalborg
Bahar Namaki Araghi, Aalborg University, Denmark</p> <p>EU-00589 Automating bus stop dwell times measurements using London's iBus: Exploiting the data from vehicle location systems
Alan Wong, University of Southampton, United Kingdom</p> <p>EU-00731 Quality of real-time traffic information of the Austrian motorway and expressway network
Martin Rose, TRANSVER GmbH, Germany</p> |
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TS010 – Connected vehicle for traffic safety

Tuesday 23 October 2012, 14.00–15.30

Schubert 4 Room

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|---|---|
| <p>AM-00103 Communications based integrated lane change, lane drift and blind spot warning system
Osman D. Altan, US DOT - Volpe Center, USA</p> <p>AP-00154 Design and validation of motorcycle approaching indication
Tokujiro Kizaki, Honda R&D Co., Ltd. Motorcycle R&D Center, Japan</p> <p>AP-00324 Runtime V2X integrated simulation framework based on VR-driving simulator for cooperative vehicle safety applications networking
Pyungsun Park, Ubiquitous Communication & Networking (UCN) Lab, Korea</p> | <p>AP-00325 Analysis on behaviours of a driver in the system failure in forming automatic platooning of trucks from manual driving
Shigeyuki Yamabe, The University of Tokyo, Japan</p> <p>AP-00342 Development of impact-absorbing bumper for truck platooning system
Shin Kato, National Institute of Advanced Industrial Science and Technology -AIST, Japan</p> <p>EU-00364 Update Delay: A new information-centric mElectronics and Telecommunications Research Institute - ETRIC for a combined communication and application level reliability evaluation of CAM based safety applications
Bernhard Kloiber, German Aerospace Center - DLR, Germany</p> |
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TS011 – Floating car & floating phone data (1)

Tuesday 23 October 2012, 14.00–15.30

Schubert 5 Room

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| <p>EU-00040 FCD in the real world – system capabilities and applications
Anita Graser, AIT Austrian Institute of Technology, Austria</p> <p>AP-00083 Study of Cooperative ITS deployed in Japan: Analysis on "ITS Spot Services"
Shoichi Suzuki, NILIM, Ministry of Land, Infrastructure, Transport and Tourism - MLIT, Japan</p> <p>EU-00123 IMPAKT - Lane specific FCD analysis
Stefan Krampe, TraffiCon, Austria</p> | <p>AP-00251 Optimal probe vehicle sample size estimation: Experience of CENNAVI
Chunbai Deng, Cennavi, China</p> <p>AP-00326 A traffic information collection method based on the weighted grid policy
Tien Yuan Hsieh, Industrial Technology Research Institute, Chinese Taipei</p> <p>EU-00340 Aggregated travel time validation
Lars Randleff, Hermes Traffic Intelligence, Denmark</p> |
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TS012 – Data collection & quality (1)

Tuesday 23 October 2012, 14.00–15.30

Schubert 6 Room

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| <p>AM-00059 New York City use of non-intrusive vehicle detectors to estimate vehicle average speeds in Lower Manhattan
Raymundo Martinez, TransCore ITS/JHK Engineering P.C., USA</p> <p>AP-00063 Utilisation of probe data collected by ITS Spot for road management
Takeshi Wakatsuki, NILIM, Ministry of Land, Infrastructure, Transport and Tourism - MLIT, Japan</p> <p>EU-00203 Open traffic data collection methods for transport strategic planning and travel information in large metropolitan cities; The case of Athens
George Sarros, INFOTRIP SA, Greece</p> | <p>EU-00524 A methodology for traffic state estimation and signal control utilising high wireless device penetration
Simon Box, University of Southampton, United Kingdom</p> <p>EU-00564 Accuracy of travel time estimation using bluetooth technology: Case study Limfjord tunnel Aalborg
Bahar Namaki Araghi, Aalborg University, Denmark</p> <p>EU-00589 Automating bus stop dwell times measurements using London's iBus: Exploiting the data from vehicle location systems
Alan Wong, University of Southampton, United Kingdom</p> <p>EU-00731 Quality of real-time traffic information of the Austrian motorway and expressway network
Martin Rose, TRANSVER GmbH, Germany</p> |
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TS013 – Analysis & modelling (1)

Tuesday 23 October 2012, 14.00–15.30

Business Suite 1 Room

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| <p>AP-00002 Dynamic travel time prediction using probe vehicle data collected via dedicated short range communication
Jinhwan Jang, Korea Institute of Construction Technology, Korea</p> <p>AM-00032 A three state method for determine the speed-flow-density parameters of the fundamental diagramme
Olavo de Mendonca Guimaraes, OdMG Transportation Consultants Ltd., Brazil</p> <p>AM-00041 A simple methodology to estimate queue lengths at signalised intersections using detector data
Jinil Chang, KLD, USA</p> | <p>AP-00191 Refined pattern matching method for travel time prediction
Makoto Kasai, Tokyo University of Science, Japan</p> <p>EU-00283 NorSIKT – Nordic system for intelligent classification of traffic
Torgeir Vaa, Norwegian Public Roads Administration, Norway</p> <p>EU-00734 Recent innovations in ITS camera sub-systems
Tue Moerck, JAI, Denmark</p> |
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TS014 – Traffic control – Policies & strategies

Tuesday 23 October 2012, 14.00–15.30

Business Suite 2 Room

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| <p>AM-00017 Improving input-output technique for queue estimation at traffic signals
Jingcheng Wu, AECOM, USA</p> <p>EU-00093 Functional ITS on Slovenian motorways
Ulrich Zorin, DARS, Slovenia</p> <p>EU-00299 Defining the required infrastructure supporting Co-operative Systems
Kerry Malone, Netherlands Organisation for Applied Scientific Research – Netherlands Organisation for Applied Scientific Research – TNO, The Netherlands</p> | <p>AP-00351 Teheran ITS strategic plan
Seyed Mahmoud Siadat Mousavi, Intelligent Transportation Systems (ITS) Institute, Iran</p> <p>EU-00445 Nano routing for increased intersection throughput
Siebe Turksma, Peek, The Netherlands</p> <p>EU-00502 Bottleneck issue and possibility of traffic flow management
Martin Pipa, Transport Research Center, Czech Republic</p> <p>EU-00689 Tactical level decisions within intermodal port facilities
Chrysostomos Stylios, TEI of Epirus, Greece</p> |
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TS015 – Data exchange

Tuesday 23 October 2012, 14.00–15.30

Business Suite 3/4 Room

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| <p>AM-00036 Smart Grid as an infrastructure for Intelligent Transport Systems
Cledson Sakurai, Universidade de São Paulo, Brazil</p> <p>EU-00130 Level of Service (LOS) based data fusion to enhance the quality of traffic information
Louis Calvin Touko Tcheumadjeu, German Aerospace Center – DLR, Germany</p> <p>EU-00196 Access to data and information – A business between stakeholders and a democratic issue
Alf Peterson, Swedish Transport Administration – STA, Sweden</p> | <p>EU-00571 Incident detection from cellular network signalling
Danilo Valerio, Telecommunications Research Center Vienna – FTW, Austria</p> <p>EU-00576 Macro-mobility patterns from cellular network data
Stefann Ruehrup, Telecommunications Research Center Vienna – FTW, Austria</p> |
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TS016 – Traffic management (1)

Tuesday 23 October 2012, 16.00–17.30

Stolz 1 Room

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| <p>AM-00031 The relationship between a three lane arterial road and the lane with best performance: A behaviour analysis.
Olavo de Mendonca Guimaraes, OdMG Transportation Consultants Ltd., Brazil</p> <p>EU-00051 Small town, major event, Big (ITS) Bang
Peter Speroni, Dorset County Council, United Kingdom</p> <p>AP-00088 Tram signal priority strategy using bandwidth model
Youngje Jeong, University of Seoul, Korea</p> | <p>AP-00138 Exploring GPS-based vehicle probe data for road traffic estimation
Chia-Chen Hung, CHTTL, Chinese Taipei</p> <p>AP-00173 Application of probe data to traffic management in an urban road network
Toshihiko Oda, Vehicle Information and Communication System Center, Japan</p> <p>EU-00214 ASTER – A telemedical communication platform for ambulance vehicles
Franziska Wolf, Institut f. Automation und Kommunikation, Germany</p> <p>AP-00318 Development of the multi-transportation sharing service management system in Japan
Kim Jaeyoul, The University of Tokyo, Japan</p> |
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TS017 – Sensor & detection systems – Safety & enforcement

Tuesday 23 October 2012, 16.00–17.30

Stolz 2 Room

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| <p>AM-00037 Virtual tax inspection using ITS components
Cledson Sakurai, Universidade de São Paulo, Brazil</p> <p>AP-00219 Evaluation of new incident detection device, SITMS multi-device incident detection system
Whoibin Chung, ITS Korea, Korea</p> <p>EU-00330 Control of heavy vehicles while they are in motion
Marit Natvig, SINTEF, Norway</p> <p>EU-00478 Using eCall incident data for traffic management within the Romanian HeERO project
Sorin Dumitrescu, Electronic Solutions Ltd., Romania</p> | <p>EU-00520 Traffic flow effects of a variable speed limit system on a German autobahn: An empirical analysis
Klaus Bogenberger, University of Federal Armed Forces Munich, Germany</p> <p>EU-00711 Weigh-In-Motion systems for pre-selection, enforcement and data collection in Poland
Witold Konior, Silesian University of Technology, Poland</p> <p>EU-01004 Weigh-in-Motion (WIM) systems in Emirate of Abu Dhabi
Pete Dodds, AECOM, United Arab Emirates</p> |
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TS018 – Innovative multi-modal mobility

Tuesday 23 October 2012, 16.00–17.30

Lehar 1 Room

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| <p>AM-00106 Better drivers – Remote operation of private vehicles by qualified remote operators – Complements autonomous vehicles
Stephan Parker, Transportation Research Board of The National Academies, USA</p> <p>AP-00151 Park-and-Ride services to enhance town mobility of ITS model city Kashiwa in Japan
Takayuki Hirasawa, The University of Tokyo, Japan</p> <p>EU-00224 Dynamic ridesharing – coCar
Bart Lowyck, VIM, Belgium</p> | <p>AP-00338 Basic study on Human-Machine Interface for personal mobility vehicle
Masahiko Aki, The University of Tokyo, Japan</p> <p>EU-00453 BMW mobility assistant
Heleen Borghols-Wilmink, BMW, Germany</p> <p>EU-00621 Implementation of the online tool "Mobility Pass for Real Estate"
Manfred Schrenk, CEIT Alanova, Austria</p> <p>EU-00635 Future Internet for a Personal Travel Companion service
Mahdi Zargayouna, French institute of science and technology for transport, development and networks – IFSTTAR, France</p> |
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TS019 – Vulnerable and impaired mobility travellers (1)

Tuesday 23 October 2012, 16.00–17.30

Lehar 2 Room

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| <p>EU-00102 Riders acceptance of advanced rider assistance systems
Elisabeth Fuessler, Factum OG, Austria</p> <p>AP-00182 A Stereo-based pedestrian detection system for smart intersection
Yunyun Cao, Panasonic Corporation, Japan</p> <p>EU-00206 Driving on: Using ITS to help older people stay on the road
Amy Guo, Newcastle University, United Kingdom</p> | <p>AP-00315 79GHz-band wide scanning radar system for Infrastructure
Yoichi Nakagawa, Panasonic Corporation, Japan</p> <p>AP-00319 A study of sensing for sudden pedestrian movements
Noboru Nagamine, AISIN SEIKI Co. Ltd., Japan</p> <p>EU-00558 ITS for motorcycles – Utopia or factual benefits
Aki Lumihao, Ramboll Finland Oy, Finland</p> <p>EU-00688 Accidents with vulnerable road users in Germany: Current trends and characteristics of vehicle-cyclist accidents
Thomas Helmer, BMW AG, Germany</p> |
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TS020 – V-to-I applications (2)

Tuesday 23 October 2012, 16.00–17.30

Lehar 3 Room

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| <p>EU-00076 IEEE 802.11p vehicular networking system in WISAFECAR project
Timo Sukuvaara, Finnish Meteorological Institute, Finland</p> <p>AP-00194 Countermeasure against traffic congestion at expressway sag sections with vehicle-infrastructure cooperative systems using adaptive cruise control
Kazufumi Suzuki, NILIM, Ministry of Land, Infrastructure, Transport and Tourism – MLIT, Japan</p> <p>AP-00208 Demonstration and validation of smart highway service in Yeo-Ju test site
Chanhyun Choi, ITS Korea, Korea</p> | <p>AP-00239 Field Operational Tests for the "Safe driving support system at curve section" on the metropolitan expressway
KenI Wasaki, NILIM, Ministry of Land, Infrastructure, Transport and Tourism – MLIT, Japan</p> <p>EU-00432 Accompanying the development of road-based cooperative systems: ergonomics analysis to construct a roadmap for user testing
Cécile Barbier, Renault, France</p> <p>EU-00705 Designing cooperative I2V services for the climate-conscious stakeholder group – options to reach the next opinion leaders?
Walter Aigner, HiTec, Austria</p> <p>EU-00708 Cooperative systems roll-out in Austria and Middle-Germany: key impacts on environment – first calculations
Walter Aigner, HiTec, Austria</p> |
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TS021 – Eco-traffic management (2)

Tuesday 23 October 2012, 16.00–17.30

Lehar 4 Room

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| <p>EU-00154 Dynamic priority of PT in Trondheim
Ørjan Tveit, NTNU, Norway</p> <p>EU-00218 eStraM: a dynamical real-time model for strategic eco-Routing and Hot-spot identification
Yusen Chen, Netherlands Organisation for Applied Scientific Research - TNO, The Netherlands</p> <p>EU-00258 The Nordic sustainable intelligent truck hub – “NiHub”
Thomas Sjöström, SWECO, Sweden</p> <p>EU-00649 ICT enabled solutions' potential to reduce CO₂-emissions from road transport
Merja Penttinen, Technical Research Centre - VTT, Finland</p> | <p>EU-00677 Impacts of Green Driving Application in City Buses
Satu Innamaa, Technical Research Centre - VTT, Finland</p> <p>EU-00679 Multi aspect traffic management a pilot in the city of The Hague
Arjan Eijk, Netherlands Organisation for Applied Scientific Research - TNO, The Netherlands</p> <p>EU-00698 Agent based assignment of cybercars for a shuttle service
Michael Behrisch, German Aerospace Center - DLR, Germany</p> |
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TS022 – Environmental impact reduction (2)

Tuesday 23 October 2012, 16.00–17.30

Schubert 1 Room

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| <p>EU-00035 Estimation of total fuel demand in the road transportation in Iran in 2025 considering demand-side approach
Aliasghar Mehdizadeh Dastjerdi, Linköping University, Sweden</p> <p>AP-00080 An estimate of carbon dioxide emissions reduction effect with the introduction of LRT
Hiroakil Nocuchi, Kansai University, Japan</p> <p>EU-00300 Business plan for ITS and green mobility
Louise Rathleff, City of Copenhagen, Denmark</p> <p>EU-00393 Impact on vehicle speeds and pollutant emissions of a fully automated section speed control scheme on the Naples urban motorway.
Vincenzo Punzo, European Commission Joint Research Centre</p> | <p>EU-00592 Real-world and real-time exhaust emissions and fuel consumption of a test vehicle supported by cooperative systems for intelligent road safety
Ernst Pucher, Vienna University of Technology, Austria</p> <p>EU-00613 The role of electronic vehicle and fare data for carbon accounting in the delivery of sustainable bus operation
Patrizia Franco, Newcastle University, United Kingdom</p> |
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TS023 – Business models

Tuesday 23 October 2012, 16.00–17.30

Schubert 2 Room

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| <p>AM-00014 Software as a service and the growth of ITS
Matthew Dorfman, D'Artagnan Consulting, USA</p> <p>AP-00045 The European electronic toll service business model – Risks and rewards
Brian Michie, EROAD, New Zealand</p> <p>EU-00201 Interoperability: the Hub solution
Pierrick Le Puil, CS Communication & Systèmes, France</p> | <p>AP-00249 Establishing business model at operational level for advance traveller information system with systematic approach and dynamic programming
Chee Chung Tong, Tamkang University, Chinese Taipei</p> <p>EU-00363 Developing the road operators' business case for co-operative system deployment
Alan Stevens, Transport Research Laboratory – TRL, United Kingdom</p> <p>EU-00522 Evaluation of German car sharing systems
Klaus Bogenberger, University of Federal Armed Forces Munich, Germany</p> |
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TS024 – Traffic control – Systems modelling (2)

Tuesday 23 October 2012, 16.00–17.30

Schubert 3 Room

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| <p>AM-00062 Calibration of micro-simulation models for ITS applications
Aleksandar Stevanovic, Florida Atlantic University, USA</p> | <p>AP-00224 A progression index for signalised intersections to represent real progression with considering queue clearance time
Yohee Han, University of Seoul, Korea</p> |
| <p>AM-00105 An optimisation model for microscopic centralised traffic management of intelligent vehicles in a segment of a double lane highway
Ricardo Reghelin, UTFPR, Brazil</p> | <p>AP-00330 Monitoring models for logistics
Karri Rantasala, Technical Research Centre - VTT, Finland</p> |
| <p>AP-00144 The verification with real-world road network on optimisation of traffic signal parameters using multi-element genetic algorithms
Toshiki Nishihara, Kumamoto University, Japan</p> | <p>EU-00624 Developing a simulation model for ramp weaving sections
Hamid Al-jameel, Salford University, United Kingdom</p> |

TS025 – eCall

Tuesday 23 October 2012, 16.00–17.30

Schubert 4 Room

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| <p>EU-00025 eCall receiving – the PSAP operator user experience
MikkoTarkiainen, Technical Research Centre - VTT, Finland</p> | <p>EU-00604 A dedicated facility for testing eCall end-to-end performance
Alan Stevens, Transport Research Laboratory - TRL, United Kingdom</p> |
| <p>EU-00105 A methodology for eCall performance laboratory examination
Kresimir Vidovic, Ericsson Nikola Tesla, Croatia</p> | <p>EU-00723 HGV eCall, defining and using HGV eCall for emergency information on dangerous goods
Jan van Hattem, Rijkswaterstaat, The Netherlands</p> |
| <p>EU-00407 Solution for eCall implementation at national level within the HeERO project – Romania case study
Rares, Ropot, Electronic Solutions, Romania</p> | |
| <p>EU-00538 eCall cross-border tests between Finland and Russia
Risto Öörni, Technical Research Centre - VTT, Finland</p> | |

TS026 – Floating car & floating phone data (2)

Tuesday 23 October 2012, 16.00–17.30

Schubert 5 Room

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| <p>EU-00014 Traffic data fusion of vehicle data to detect spatiotemporal congested patterns
Hubert Rehborn, Daimler AG, Germany</p> | <p>EU-00124 Acquisition of traffic and mobility data based on cellular network signalling
Daniel Elias, Nast Consulting ZT GmbH, Austria</p> |
| <p>AP-00024 The application of probe-based traffic efficiency evaluation to actual operations
Tomohide Mizuki, Ministry of Land, Infrastructure, Transport and Tourism - MLIT, Japan</p> | <p>AP-00142 Probe car system evaluation method based on short interval GPS data
Lan Li, Hitachi R&D Corp., China</p> |
| <p>EU-00062 A system for vehicle data processing to detect spatiotemporal congested patterns: The SIM-TD approach
Micha Koller, IT-Designers, Germany</p> | <p>EU-00507 Spin-off functions of XFCD technology for public use in ITS
Reinhard Edlmair, Vienna University of Economics and Business, Austria</p> |
| | <p>EU-01003 Determination of turning rates using Floating Car Data
Matthias Koerner, TU Dresden, Germany</p> |

TS027 – Data collection & quality (2)

Tuesday 23 October 2012, 16.00–17.30

Schubert 6 Room

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| <p>AM-00056 Validation of critical routes utilising origin-destination matrices in Reston parkway using bluetooth data collection methods
Montasir Abbas, Virginia Tech, USA</p> <p>EU-00089 Interconnection model on the cloud as a base for a global public transport data interconnected system: MOVEUSKADI project
Mikel Diez, Basque Government, Spain</p> <p>AP-00183 Analysis on fluctuation of traffic demand and quantification of the fluctuation
Jinyoung Kim, Tohoku University, Japan</p> | <p>EU-00457 Agreements - A concept for sharing information between operators in the transport sector
Claes Pihl, Volvo Technology, Sweden</p> <p>EU-00487 Future roles for public open data in traffic information and traffic management
Edoardo Felici, National Data Warehouse for Traffic Information - NDW, The Netherlands</p> <p>EU-00498 Detector technologies for travel time measurement systems
Christoph Roth, Siemens AG, Germany</p> <p>EU-00536 Split routing as a part of the urban navigation
Gordon Isaac, BMW Group, Germany</p> |
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TS028 – Analysis & modelling (2)

Tuesday 23 October 2012, 16.00–17.30

Business Suite 1 Room

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| <p>AM-00109 Estimation of travel time distributions on signalised arterials
Andre Gueziec, Novavia Solutions, USA</p> <p>AP-00117 Assessment of winter road traffic performance using taxi probe data in Sapporo City of Japan
Kazunori Munehiro, CERi, Japan</p> <p>AM-00120 Indirect travel time data validation using higher order crossings analysis
Kaveh Farokhi Sadabadi, University of Maryland, USA</p> | <p>AP-00343 Designing Indonesia's ITS architecture with cloud computing Infrastructure
Meizano Ardhi Muhammad, ITB, Indonesia</p> <p>EU-00738 The cell transmission model in urban networks
Maoyan Zeng, Technische Universität München, Germany</p> <p>EU-00744 Microscopic cooperative traffic based on NGSIM data
Julien Monteil, French institute of science and technology for transport, development and networks - IFSTTAR, France</p> |
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TS029 – Parking management (1)

Tuesday 23 October 2012, 16.00–17.30

Business Suite 2 Room

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| <p>EU-00119 Quality assurance for traffic information services
Martin Grzebellus, NavCert GmbH, Germany</p> <p>EU-00150 Parking operational picture – real-time information in high resolution
Ali Lattunen, Finnpark Ltd., Finland</p> <p>AP-00177 A study on low-cost logistics support service utilising ITS Spot
Shota Motomizu, NILIM, Ministry of Land, Infrastructure, Transport and Tourism - MLIT, Japan</p> <p>AP-00263 Design the parking guidance information for the drivers
Yanjie Ji, Southeast University, China</p> | <p>AP-00275 A short-term prediction model of congestion of car parks at rest area using individual detection data of parking lots availability
Nobuhiro Uno, Kyoto University, Japan</p> <p>AP-00327 Improvement of dynamic parking lot vacancy information system of an expressway rest area
Tadahisa Muramatsu, Central Nippon Expressway Company Limited, Japan</p> <p>EU-00537 Experiences with video-based parking space surveillance
Klaus-Peter Döge, Dresden University of Technology, Germany</p> |
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TS030 – Demand management

Tuesday 23 October 2012, 16.00–17.30

Business Suite 3/4 Room

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| <p>AP-00030 Repeatability enhancements of traffic simulator by introduction of traffic flow compensation methods
Hirofumi Ohgami, Sumitomo Electric Industries, Japan</p> | <p>EU-00675 Architecture methodology in the Instant Mobility project
Dirk Beckmann, German Aerospace Center – DRL, Germany</p> |
| <p>EU-00117 “Rush hour avoidance” – Behavioural change using (GPS) in-car technology and information
Gerbrand Klijin, Province of Noord-Brabant, The Netherlands</p> | <p>EU-00676 Transport planning and simulation for FIFA World Cup 2018 in Rostov-on-don (Russia)
Vladimir Zyryanov, Rostov State Civil Engineering University, Russian Federation</p> |
| <p>EU-00153 Pilot site in Trondheim: Building user applications through EU-projects
Ørjan Tveit, NTNU, Norway</p> | <p>EU-00695 Boosting infrastructure investments through ITS – Towards sustainable daily commuting
Susanne Planath, Swedish Transport Administration – STA, Sweden</p> |
| <p>AP-00329 Making car-pooling work – Myths and where to start
Biplav Srivastava, IBM Research, India</p> | |

TS031 – Parking management (2)

Wednesday 24 October 2012, 09.00–10.30

Business Suite 2 Room

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| <p>EU-00125 Evaluation of parking capacities for heavy vehicles on highways
Daniel Elias, Nast Consulting ZT GmbH, Austria</p> | <p>EU-00476 Development of a real-time model of the utilisation of short-term parking zones
Reinhard Hössinger, University of Natural Resources and Life Sciences, Vienna, Austria</p> |
| <p>EU-00155 ParckR – Estimating and forecasting parking occupancy based on floating vehicle data
Tom Van de Ven, Rapp Trans, The Netherlands</p> | <p>EU-00554 Telematics controlled parking – Types of operation
Klaus Manns, Manns Ingenieure, Germany</p> |
| <p>EU-00418 i-Ladezone
Alexander Chloupek, ABC Consulting, Austria</p> | <p>EU-00713 A general noise resolution model for parking occupancy sensors
Onno Zoeter, Xerox Research Centre Europe, France</p> |
| <p>EU-00436 Pre-Gate Parking facility (PGP) to control approaching traffic to the port of Hamburg
Alexander Dinkel, TRANSVER GmbH, Germany</p> | |

TS032 – Travel information (1)

Wednesday 24 October 2012, 11.00–12.30

Stolz 1 Room

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| <p>AP-00061 Design of Adaptive User Interface (AUI) for the bus information terminal
Doohee Nam, Hansung University, Korea</p> | <p>AP-00277 Estimation of traffic volume by integration of measurement data and probe data
Katsuya Kawai, Mitsubishi Electric Corporation, Japan</p> |
| <p>AP-00129 Feasible study of a light weight prediction system in China
Osamu Masutani, Denso IT Laboratory, Inc., Japan</p> | <p>EU-00456 Traffic information delivery and future applications in Istanbul
Rahime Gunay, ISBAK Inc., Turkey</p> |
| <p>AP-00141 The analysis of information features for multisource traffic information fusion
Chih-Yi Chiang, Chungwa Telecom, Chinese Taipei</p> | <p>EU-00615 Integration of AVL and AFC data for network planning
Nadarajah Duhindan, Transport for London, United Kingdom</p> |
| <p>EU-00176 Network-wide traffic speed information for improving accessibility
Erik Donkers, VIA.nl, The Netherlands</p> | |

TS033 – GNSS & location based services (1)

Wednesday 24 October 2012, 11.00–12.30

Stolz 2 Room

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| <p>AM-00027 The current and future state of global positioning system accuracy and reliability – Implications for road user fees
Robert Zimmer, Battelle, USA</p> <p>EU-00037 Galileo signal priority for public transportation
Jörg Pfister, pwp-systems GmbH, Germany</p> <p>AP-00067 Development of a novel integrated positioning system "PRECISE" for ADAS applications
Yoshiko Kojima, Toyota Central R&D Labs., Inc., Japan</p> | <p>EU-00114 High precision and reliable positioning using a Roadside Navigation Station
Frank Brennecke, OECON Products & Services GmbH, Germany</p> <p>AP-00267 RFID-based vehicle positioning of cooperative driving assistance systems
Jianqiang Wang, University of California Berkeley, USA</p> <p>AP-00357 The experimental system of GNSS-Based ETC applied in China
Dongzhu Wang, National ITS Center, China</p> |
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TS034 – Multi-modal real-time information services

Wednesday 24 October 2012, 11.00–1.30

Lehar 1 Room

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| <p>AM-00113 Mstraffic's how's your drive?: A user-driven approach to traveller information dissemination
Michael Stokes, Mississippi DOT, USA</p> <p>EU-00239 How EREX power meter in trains enables high quality multi-modal real time commuter information services
Maria Gustafsson, Västtrafik AB, Sweden</p> <p>EU-00261 Passenger information of a new dimension: push services make it possible
Dirk Esters, HaCon, Germany</p> <p>EU-00585 "FreeSEAT" identification of availability of seat-resources in public transport
Martin Novak, Prosoft Sued Consulting GmbH, Austria</p> | <p>EU-00590 Verkehrsankunft Österreich – VAO (Traffic Information Austria) A sound basis for future proof intermodal traffic information services
Martin Müllner, ASFINAG, Austria</p> <p>EU-00665 Provision of bus real time information to all bus stops in London
Nigel Hardy, Transport for London – TfL, United Kingdom</p> <p>EU-00716 RDS-TMC conformance-testing
Bernd Rainer, ASFINAG, Austria</p> |
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TS035 – Human factors & HMI (1)

Wednesday 24 October 2012, 11.00–12.30

Lehar 2 Room

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| <p>AP-00009 Effective driver's support system with high operation load
Toru Miyamoto, Toyota Motor Corporation, Japan</p> <p>EU-00011 3D simulator network architectures for European Union – proposal for the safety of transportation
Florin Grafu, ROMATSA, Romania</p> <p>AM-00060 Naturalistic car driver behaviour: A comparison of car-following models
Bryan Higgs, Virginia Tech, USA</p> <p>AM-00076 Demonstrating before and after safety and behavioural analysis using computer vision
Mohamed Zaki, University of British Columbia, Canada</p> | <p>AP-00162 Driver-view based augmented-reality HUD system
Hye Sunpark, Electronics and Telecommunications Research Institute – ETRI, Korea</p> <p>EU-00213 Safe road trains for the environment (SARTRE): Validation of SARTRE Human Machine Interface
Maider Larburu, Tecnalia Research & Innovation, Spain</p> <p>AP-00283 Colour universal HMI designing for driving support systems
Jun Kadowaki, AISIN SEIKI Co. Ltd., Japan</p> |
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TS036 – Vehicle platooning

Wednesday 24 October 2012, 11.00–12.30

Lehar 3 Room

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| <p>AM-00091 Multiple-vehicle longitudinal collision avoidance and impact mitigation simulation for different scenarios
Xiao-Yun Lu, University of California Berkeley, USA</p> <p>EU-00273 Impact of platooning on the traffic efficiency
Qihui Huang, RWTH Aachen University (ika), Germany</p> <p>AP-00297 A study on position estimation using multiple vehicle trajectories
Asako Hamada, Panasonic Corporation, Japan</p> | <p>EU-00336 Overview of platooning systems
Carl Bergenhem, SP Electronics, Sweden</p> <p>AP-00336 Evaluation of safety of automatic platoon-driving with improved brake system
Masahiko Aki, The University of Tokyo, Japan</p> <p>AP-00340 Influence of acceleration-and-deceleration information to following vehicle
Hiroaki Sato, AIST, Japan</p> <p>EU-00346 Cooperative control of SARTRE automated platoon vehicles
Eric Chan, Ricardo UK Ltd., United Kingdom</p> |
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TS037 – Electromobility – Vehicles (1)

Wednesday 24 October 2012, 11.00–12.30

Lehar 4 Room

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| <p>EU-00050 On-time performance and energy efficiency for trains
Martin Joborn, Linköping University, Sweden</p> <p>AP-00099 A feasibility study of CO₂ emission evaluation model and real-time metering system in households with EV and PV
Kanae Matsui, National Institute for Environmental Studies, Japan</p> <p>EU-00355 Intelligent functionalities for fully electric vehicles
Qihui Huang, RWTH Aachen University (ika), Germany</p> | <p>EU-00392 Use of intelligent vehicle logger technology to track electric vehicle user recharging behaviour
Andrew Robinson, Newcastle University, United Kingdom</p> <p>EU-00715 Test for electromobility solutions in the Euroregion Galicia-North of Portugal. The MOBI2GRID project.
Ana Paul, CTAG, Spain</p> |
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TS038 – Environmental impact reduction (3)

Wednesday 24 October 2012, 11.00–12.30

Schubert 1 Room

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| <p>EU-00159 Innovations for carbon footprint measurement and calculation in supply chains
Martin Ruesch, Rapp Trans AG, Switzerland</p> <p>EU-00191 Potential of variable speed limits for emission and noise reduction on the E313 motorway to Antwerp, Belgium
Bart Degraeuwe, Flemish Institute for Technical Research – VITO, Belgium</p> <p>EU-00287 SUPERHUB: SUsustainable and PERsuasive Human Users moBility in future cities
Alma María Solar Calatayud, ETRA I+D, Spain</p> <p>EU-00354 Energy efficiency controller – New tool for urban energy consumption and emission monitoring
Andreas Pottmeier, TraffGo Road GmbH, Germany</p> | <p>EU-00397 User needs for a standardised CO₂ emission assessment methodology for Intelligent Transport Systems
Dick Mans, Ecorys, The Netherlands</p> <p>EU-00404 IT services as a service for future low emission zones in France
Julien Ponteville, Atos Worldline, France</p> <p>EU-00489 Creating an evaluation platform to deliver sustainable urban networks using bluetooth technology
Fabio Galatioto, Newcastle University, United Kingdom</p> |
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TS039 – Policy & strategy (2)

Wednesday 24 October 2012, 11.00–12.30

Schubert 2 Room

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| <p>AM-00001 The "Real" need for augmenting future transportation funding
Jack Opiola, D'Artagnan Consulting LLP, USA</p> <p>AM-00005 ITS integration of the future – A patchwork quilt
Tip Franklin, Telvent Transportation - North America, USA</p> <p>EU-00027 GreenCityStreets.com – Using ITS to improve transport planning
Andrew Nash, Vienna Transport Strategies, Austria</p> <p>AM-00050 Creating open market conditions for ITS deployment in Mexico
Travis Dunn, D'Artagnan Consulting LLP, USA</p> | <p>EU-00139 Opportunities and barriers for cooperative services deployment in Spain
Felipe Jimenez, Technical University of Madrid, Spain</p> <p>EU-00384 Penetration level and impact of ITS applications: the benefit of governmental support in ITS deployment
Jing Bie, University of Twente, The Netherlands</p> <p>EU-00745 A guide for pre-commercial procurement actors in ITS
Sébastien Mure, ERTICO - ITS Europe</p> |
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TS040 – Sensor & detection systems – General (1)

Wednesday 24 October 2012, 11.00–12.30

Schubert 3 Room

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| <p>AM-00006 Count accuracy of wireless magnetometer sensors compared to high accuracy inductive loop counting system
Michael Volling, Sensys Networks, USA</p> <p>EU-00189 Road infrastructure health monitoring: Use of NICT for sustainable development
Bertrand Pouteau, EUROVIA, France</p> <p>AP-00280 Accurate vehicle detection using stereo vision for toll collection systems
Yusuke Takahashi, Toshiba Corporation, Japan</p> | <p>EU-00600 Conceptual approach for determining penetration rates for dynamic indirect traffic detection based on bluetooth
Gaby Gurczik, German Aerospace Center - DLR, Germany</p> <p>EU-00614 Low and hi-speed weigh-in-motion systems: a performance comparison
Marco Bottero, Politecnico di Torino, Italy</p> <p>EU-00673 MobiTrick – Mobile Traffic Checker
Umair Khan, Alpen-Adria University, Austria</p> <p>EU-00697 Automatic license plate recognition as suitable tool to generate real-time traffic data as input for route decisions in smart traffic management
Erich Jaekel, Inex/Zamir, Austria</p> |
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TS041 – Driver assistance & support systems (2)

Wednesday 24 October 2012, 11.00–12.30

Schubert 4 Room

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| <p>AM-00025 Surrogate safety measures as aid to cognitive vehicle design: Example of longitudinal and side swipe collisions
Ata Khan, Carleton University, Canada</p> <p>AP-00133 Comparison and modification of car following models toward a more accurate microscopic simulation parameters reproduction
Kaveh Bevrani, Queensland University of Technology, Australia</p> <p>EU-00179 Rapid prototyping of ADAS and ITS Applications on the example of a vision-based vehicle tracking system
Robin Schubert, Chemnitz University of Technology, Germany</p> | <p>AP-00198 Lane-mark detection on top-view domain using directional feature-points tracing algorithm
Qing Lin, Soongsil University, Korea</p> <p>EU-00311 GENEVA – Galileo/EGNOS enhanced driver assistance
Frank Brennecke, OECON Products & Services GmbH, Germany</p> <p>EU-00382 A modular system for accurate and integer vehicle positioning
Katrin Lüddecke, German Aerospace Center - DLR, Germany</p> <p>EU-00669 A subjective FOT on lane departure warning: the Italian test site experience in the euroFOT project
Gianfranco Burzio, Centro Ricerche Fiat - CRF, Italy</p> |
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TS042 – V-to-I applications – Communications (1)

Wednesday 24 October 2012, 11.00–12.30

Schubert 5 Room

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| <p>AP-00007 Design and implementation of security mechanisms for The N-Fi-based Telematic system
Tang Hsien CHang, National Taiwan University, Chinese Taipei</p> | <p>EU-00260 The European legal framework for automotive on-board networks
Jos Dumortier, University of Leuven, Belgium</p> |
| <p>AM-00080 Comparing communication performance of DSRC OBEs from multiple suppliers
John Kenney, Toyota InfoTechnology Center, USA</p> | <p>EU-00469 OVERSEE – A secure and open in-vehicle ITS station
Jan Holle, University of Siegen, Germany</p> |
| <p>AP-00095 Usage of RSSI for handover implementation in vehicular communications
Woong Cho, Electronics and Telecommunications Research Institute – ETRI, Korea</p> | <p>EU-00516 Architecture and development of a networking stack for secure and continuous service access in vehicular environments
José Santa, University of Murcia, Spain</p> |

TS043 – Traffic & network management – Urban (2)

Wednesday 24 October 2012, 11.00–12.30

Schubert 6 Room

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| <p>EU-00055 Assessing the quality of complex fixed-time traffic signals
Peter Wagner, German Aerospace Center – DLR, Germany</p> | <p>EU-00351 The situation radar – Visualising collaborative situation awareness in traffic control systems
Andrea Salfinger, University of Linz, Austria</p> |
| <p>EU-00122 Traffic Supervisor system on wide regional area
Fabrizio Arneodo, 5T s.r.l., Italy</p> | <p>EU-00370 Counting cyclists – fostering a bike friendly public governance
Jan Bembenek, Bremen State Ministry of Transport, Germany</p> |
| <p>AP-00302 Development of a tollgate entrance control model for expressway traffic flow management using a stochastic optimisation
Ilsoo Yun, Ajou University, Korea</p> | <p>EU-00375 The significant benefits of signals validation
Stuart Ohrland, Atkins, United Kingdom</p> |

TS044 – Traffic & network management – Architecture (1)

Wednesday 24 October 2012, 11.00–12.30

Business Suite 1 Room

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| <p>AP-00006 Control type selection at isolated rural intersections based on traffic conflict in China
Quan Yu, Beijing University of Technology, China</p> | <p>EU-00601 Next generation digital signage for highways
José Luis Jorge Marrasé, Alcatel-Lucent, United Kingdom</p> |
| <p>EU-00183 Organising to be smarter on the way we manage transportation
Richard Harris, Xerox, United Kingdom</p> | <p>EU-00610 Mobile services of social networks and their potential for traffic management and real time traffic information
Andreas Kretschmer, Dresden University of Technology, Germany</p> |
| <p>EU-00185 Cooperative Mobility Services – Towards greener individual mobility through complex modelling techniques and incentives
Isabell Scherer, HITEC Luxembourg S.A., Luxembourg</p> | |

TS045 – Parking management (3)

Wednesday 24 October 2012, 11.00–12.30

Business Suite 2 Room

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| <p>EU-00032 The evolution of real-time parking data
Eugene Tsyklevich, Parkopedia, United Kingdom</p> | <p>EU-00290 Proposed core services for the deployment of intelligent truck parking
Gideon Mbiydzonyuy, Blekinge Institute of Technology, Sweden</p> |
| <p>EU-00087 Management of truck parking spaces availability at COFIROUTE
Franck Petit, COFIROUTE, France</p> | <p>EU-00333 Nationwide platforms for mobile phone parking in Austria and Germany – Graz a best practice example
Joachim Wahle, TraffGo Road GmbH, Germany</p> |
| <p>EU-00202 Telematic solutions for overload of truck parking areas
Elmar Pfannerstill, FH Erfurt - University of Applied Sciences, Germany</p> | <p>EU-00366 Evaluation of parking violation system in Istanbul
Abdullah Karadag, ISBAK Inc., Turkey</p> |
| <p>EU-00263 Stereovision truck parking occupancy detection
Kristof Maddelein, Traficon, Belgium</p> | |

TS046 – Traffic & network management – Incident detection & management

Wednesday 24 October 2012, 11.00–12.30

Business Suite 3/4 Room

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| <p>EU-00054 The development of the managed motorway performance reporting tool
Jenni Ogawa, Mott MacDonald, United Kingdom</p> | <p>EU-00672 Traffic monitoring using low resolution web cameras
Musharaf Ali, German Aerospace Center - DLR, Germany</p> |
| <p>EU-00160 About crash types which are subject to automatic identification in emergency call systems
Sergey Garagan, Scientific and Research Institute of Motor Transport - NIIAT, Russian Federation</p> | <p>EU-00664 A nationwide video system to assist incident management from the point of view of an infrastructure provider
Bernhard Schalko, ASFNAG, Austria</p> |

TS047 – Traffic & network management – Interurban (1)

Wednesday 24 October 2012, 14.00–15.30

Stolz 1 Room

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| <p>AP-00023 Dynamic lane operation for merging sections of the Tokyo metropolitan expressway network
Sungjoon Hong, The University of Tokyo, Japan</p> | <p>EU-00279 On-line distributed prediction of traffic flow in a large-scale traffic network
Daniëlle Schreurs, Trinite Automation, The Netherlands</p> |
| <p>EU-00088 Opening governmental traffic management infrastructure for the mutual benefits of authorities and logistics – River information services in Europe
Mario Sattler, Oesterreichische Wasserstrassen-Gesellschaft mbH, Austria</p> | <p>EU-00326 Experiments with (Dynamic) speed limit 130 km/h in the Netherlands
Niels Beenker, Arcadis, The Netherlands</p> |
| <p>AP-00242 Balance lane use with VMS to mitigate motorway traffic congestion
Jian Xing, Nippon Expressway Research Institute, Japan</p> | <p>EU-00386 Impact assessment of speed limit information displayed on VMS during heavy air pollution episodes
Fabrice Reclus, CETE Lyon, France</p> |
| | <p>EU-00480 Active Traffic Management (ATM) as an online service
Jos Vrancken, TU Delft, The Netherlands</p> |

TS048 – Traffic control – Systems (1)

Wednesday 24 October 2012, 14.00–15.30

Stolz 2 Room

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| <p>AM-00116 Systems engineering for Chicago traffic signal management and operations
David Zattero, Chicago DOT, USA</p> <p>EU-00126 Dynamic evaluation of road safety on road networks – pilot study
Birgit Nadler, nast consulting ZT GmbH, Austria</p> <p>AP-00145 Development of the Pedestrian Priority Signal Systems (PPSS) and its effect
Akiyoshi Yamazaki, Saitama Prefectural Police, Japan</p> | <p>EU-00215 Influence of dynamic traffic control systems on the traffic flow on motorways
Thomas Wietholt, TÜV Rheinland InterTraffic GmbH, Germany</p> <p>EU-00421 The traffic management system VAMOS – from research to regular operation
Andreas Kretschmer, Dresden University of Technology, Germany</p> <p>EU-00479 New protocol for ITS – RSMP – Used in traffic signal control from cooperative ideas to development requirements for the Swedish transport administration
Martin Andersson, Swedish Transport Administration – STA, Sweden</p> |
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TS049 – Freight & logistics (1)

Wednesday 24 October 2012, 14.00–15.30

Lehar 1 Room

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| <p>AM-00068 Secure cargo tracking and monitoring at borders
Scott Brosi, TransCore, USA</p> <p>EU-00080 ITS: supporting sustainable logistics flows in Europe
Mark Thirkell, Institute for Sustainability, United Kingdom</p> <p>EU-00097 Single windows for green motorway-of-the-sea corridors
Samuel Henningson, NetPort.Karlshamn AB, Sweden</p> | <p>EU-00373 Smartphone use as transparency improvement tool for road based transports
Hans-Christian Graf, LOGISTIKUM – FH-Steier, Austria</p> <p>EU-00398 Privacy in the professional driver's workplace
Jana Sochor, KTH Royal Institute of Technology, Sweden</p> <p>EU-00702 Online reservation system for border crossing queue
Madis Sassiad, FocusIT, Estonia</p> |
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TS050 – Driver assistance & support systems: Sensors (1)

Wednesday 24 October 2012, 14.00–15.30

Lehar 2 Room

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| <p>AP-00079 Development of 3D range sensor with super-wide angle detection to observe vehicle surrounding
Koichi Lida, Fujitsu Laboratories, Japan</p> <p>EU-00109 Truck safety applications for cost-efficient laser scanner sensors
Malten Ahrholdt, Volvo Group Truck Technology, Sweden</p> <p>AP-00115 Image-based bus driving assistance system
Chang Chia-Sheng, Chunghwa Telecom Co. Ltd., Chinese Taipei</p> | <p>EU-00175 Characterisation of real and simulated optical sensors for advanced driving assistance system
Mélodie Grapinet, French institute of science and technology for transport, development and networks – IFSTTAR, France</p> <p>AP-00197 3D distance measurement method using vehicle-mounted multi cameras for parking and starting supporting system
Jun Kanetake, Fujitsu Laboratories, Japan</p> <p>AP-00349 Integrated risk index plane development for advanced driver assistant system
Kyuwon Kim, Seoul National University, Korea</p> |
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TS051 – V-to-X: Communication technologies (1)

Wednesday 24 October 2012, 14.00-15.30

Lehar 3 Room

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| <p>AM-00131 Accelerating V2X deployment through Cooperative Technologies for Connected Vehicles (CTCV)
Heri Rakouth, Delphi, USA</p> <p>EU-00222 A scalable approach for low to high end application of ITS Car2Car Communication
Marc Klaassen, NXP Semiconductors, The Netherlands</p> <p>AP-00252 A novel medium access control protocol for vehicular communication
Sangwoo Lee, Electronics and Telecommunications Research Institute - ETRI, Korea</p> | <p>EU-00271 A realistic approach to message verification in C2C communication
Kees Moerman, NXP Semiconductors, The Netherlands</p> <p>EU-00555 Channel estimation for intelligent transportation systems
Laura Bernadó, FTW, Austria</p> <p>EU-00719 ITSSv6: IPv6 ITS station stack for cooperative systems FOTs
Thierry Ernst, Mines ParisTech, France</p> |
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TS052 – Electromobility – Vehicles (2)

Wednesday 24 October 2012, 14.00-15.30

Lehar 4 Room

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| <p>AP-00111 Analyses of driving characteristics, aiming toward popularisation of electric vehicles in mountainous areas
Tetsuji Chohji, Toyama National College of Technology, Japan</p> <p>AP-00317 Development of the electric vehicles and battery chargers for road maintenance with ITS technology
Takeyori Maeda, Central Nippon Expressway Company Limited, Japan</p> <p>EU-00209 Use of ITS to overcome barriers to the introduction of electric vehicles in the North East of England
Yvonne Huebner, Newcastle University, United Kingdom</p> | <p>EU-00321 NCV2015: A networked range extended electric vehicle for clean and efficient mobility
Juan Jose Valera, Tecnalia Research and Innovation, Spain</p> <p>EU-00400 Innovative configurations for electric vehicle sharing services
Alessandro Lue', Poliedra - Politecnico di Milano, Italy</p> |
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TS053 – Environmental impact reduction (4)

Wednesday 24 October 2012, 14.00-15.30

Schubert 1 Room

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| <p>EU-00134 Emission modelling based on classified traffic volume time series
Martin Fellendorf, Graz University of Technology, Austria</p> <p>EU-00181 OpenCarData: Real world, GNSS enhanced vehicle emission profiles
Stef Kolman, Doss bv, The Netherlands</p> <p>EU-00274 GALILEO for interactive driving - The GAIN project
Robin Streiter, Chemnitz University of Technology, Germany</p> <p>AP-00350 Tunnel ventilation control system using real-time traffic and ventilation simulator.
Shinichiro Azuma, Nippon Expressway Research Institute Co. Ltd., Japan</p> | <p>EU-00422 Cooperative traffic signals for energy efficient driving in tramway systems
Christian Gassel, Dresden University, Germany</p> <p>EU-00636 Eco traffic management in cities
Thomas Siegl, Kapsch TrafficCom AG, Austria</p> <p>EU-00653 The energy consumption of a traffic flow: a model-based application for estimating the effects of ITS on motorways
Marco Bottero, Politecnico di Torino, Italy</p> |
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TS054 – Policy & strategy (3)

Wednesday 24 October 2012, 14.00–15.30

Schubert 2 Room

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| <p>EU-00057 Knowledge systems for ITS standard deployment – Leads volume reduction necessarily in loss in information content?
Ondrej Pribyl, Czech Technical University, Czech Republic</p> <p>AP-00240 Potential telecommuting demand in Seoul metropolitan area of Korea
Sang Hyup Lee, Korea Institute of Construction Technology, Korea</p> <p>EU-00441 Macroeconomic impacts and economic sustainability of transport in the EU
Christina Nikolova, University of National and World Economy, Bulgaria</p> | <p>EU-00682 Weather adaptive traffic prediction using neuro-wavelet models
Bidisha Ghosh, Trinity College, Dublin, Ireland</p> <p>EU-00701 Towards intelligent dynamic ridesharing service for seamless multimodal transport
Yorgos Stephanedes, University of Patras, Greece</p> <p>EU-00722 Czech ITS 2020 vision
Roman Srp, Intelligent Transport Systems & Services of the Czech Republic and Slovakia, Czech Republic</p> |
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TS055 – Sensor & detection systems – General (2)

Wednesday 24 October 2012, 14.00–15.30

Schubert 3 Room

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| <p>AP-00011 Vehicle tracking using image geometry
Hitoshi Saji, Shizuoka University, Japan</p> <p>AP-00112 Development of image processing for tunnel inspection using vehicle mounted infrared camera: generating panoramic thermal image
Yasuhiro Aoki, Fujitsu Laboratories Limited, Japan</p> <p>AP-00114 Integrating image processing solutions for improved automation in existing tolling systems saves operators millions
Elisabeth Agren, Kapsch TrafficCom Australia, Australia</p> | <p>AP-00175 Robust vehicle detector using spatio-temporal MRF model
Daisuke Ushirogohchi, Omron Social Solutions, Japan</p> <p>EU-00434 Seamless traffic data dissemination across urban and inter-urban networks
Joerg Freudenstein, AlbrechtConsult GmbH, Germany</p> <p>EU-00654 Video-based traffic state estimation on smart cameras for traffic information systems
Felix Pletzer, Alpen Adria Universitaet Klagenfurt, Austria</p> |
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TS056 – Human factors & HMI (2)

Wednesday 24 October 2012, 14.00–15.30

Schubert 4 Room

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| <p>AP-00096 A study on the detection of driver's drowsiness level
Yoshihisa Terada, Panasonic Corporation, Japan</p> <p>AP-00132 Effects of collision warning systems on drivers' freeway lane-changing behaviour
Chi-Hung Wu, National Taiwan Ocean University, Chinese Taipei</p> <p>EU-00141 How Does a Lane Change Performed by Neighbouring Vehicle Affects Driver Workload?
Evona Teh, University of Leeds, United Kingdom</p> | <p>AP-00160 Proposal on driving risk assessment indices for crossing pedestrians at signalised intersection
Yohei Michitsuji, Ibaraki University, Japan</p> <p>AP-00220 Elderly drivers compensatory driving behaviours and their sensitivities to the driving workload
Toshihisa Sato, National Institute of Advanced Industrial Science and Technology – AIST, Japan</p> <p>AP-00222 Elderly driver retraining using automatic evaluation system of safe driving skill
MasahiroTada, ATR, Japan</p> <p>AP-00305 An eye tracking system development for vehicle application
Kazuyuki Ohno, AISIN SEIKI CO., Japan</p> |
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TS057 – V-to-I applications – Communications (2)

Wednesday 24 October 2012, 14.00–15.30

Schubert 5 Room

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| <p>AP-00008 A telematic builder for V2V and V2I via N-Fi system
Tang Hsien Chang, National Taiwan University, Chinese Taipei</p> <p>AM-00008 Secure DSRC Transactions: a vital component of the business case for connected vehicle infrastructure
Matthew Dorfman, D'Artagnan Consulting, USA</p> <p>EU-00048 A new framework for intelligent transportation systems architecture in public transport vehicles
Vincent Sciandra, Veolia Environment Research and Innovation – ECE, France</p> | <p>AP-00066 Reduction of V2V packet collision due to traffic concentration in integrated V2V/I2V ITS communication system
Hideki Sugawara, The University of Electro-Communications, Japan</p> <p>AP-00123 Performance evaluation of the slotted ALOHA/DS-SS inter-vehicle communication scheme comparing with the CSMA/OFDM scheme
Sho Sakakibara, Tokyo University of Science, Japan</p> <p>EU-00511 An architecture for managing large fleets on inexpensive OBUs
Volker Vierroth, T-Systems, Germany</p> |
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TS058 – Traffic & network management – Urban (3)

Wednesday 24 October 2012, 14.00–15.30

Schubert 6 Room

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| <p>AM-00042 ITS real-time data analysis and development of control and performance measures in CBD environment
Satya Muthuswamy, KLD, USA</p> <p>AP-00060 Research on the framework of universal application platform of transportation management
Shuang Wang, Research Institute of Highway, Ministry of Transport, China</p> <p>EU-00180 Comparison of traffic signal control in some large cities
Fatih Gündogan, Graz University of Technology, Austria</p> | <p>AP-00257 Intelligent transport systems for national highway in Korea
Sunghan Lim, Korea Institute of Construction Technology, Korea</p> <p>AP-00345 Evaluation of traffic control policy in disaster case by using traffic simulation model
Daisuke Oshima, University of Tokyo, Japan</p> <p>EU-00593 Policy modelling and optimisation at the example of main corridor coordination
Andreas Poschinger, Siemens AG, Germany</p> |
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TS059 – Traffic & network management – Architecture (2)

Wednesday 24 October 2012, 14.00–15.30

Business Suite 1 Room

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| <p>EU-00081 A new system architecture for cooperative traffic centers – the simTD field trial
Dirk Hübner, Heusch/Boesefeldt GmbH, Germany</p> <p>AM-00107 The role of centralised management in optimising traffic signal priority control system operations
Timothy Hall, Global Traffic Technologies, USA</p> <p>EU-00157 A methodological approach of evaluation for a road operator service against ITS architecture – User-needs level (Case study ASFINAG)
Matin Giahi Foomani, EKIUM, Austria</p> <p>AP-00255 I2V message architecture of DSSS (Driving Safety Support Systems) and LDM (Local Dynamic Map)
Masafumi Kobayashi, Sumitomo Electric Industries Ltd., Japan</p> | <p>EU-00323 Rule-based diagnostics of signal control programmes
Ilya Finkelberg, Transportation Research Institute, Technion, Israel</p> <p>EU-00365 Roadworks data management for traffic condition monitoring and forecasting
Olaf Czogalla, Institute f. Automation and Communication, Germany</p> <p>EU-00528 DVM-exchange, the interoperability standard for network management systems
Jos Vrancken, TU Delft, The Netherlands</p> |
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TS060 – GNSS & location based services (2)

Wednesday 24 October 2012, 14.00–15.30

Business Suite 2 Room

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| <p>AP-00047 A study of an external (outdoor) shadow area solution based on global navigation satellite system and vision system convergence technology
Nam Hyeok Kim, DGIST, Korea</p> <p>AP-00075 A compensated system design for GPS failure using sensor fusion system
Chun Hsiung Chen, Automotive Research & Testing Center, Chinese Taipei</p> <p>EU-00272 Cooperative GNSS localisation in urban environments-results from the CoVeL project
Marcus Obst, Chemnitz University of Technology, Germany</p> | <p>EU-00310 CEN workshop agreement SCUTUM: DATEX II extension for guaranteed satellite positioning
Jean-Philippe Mechin, CETE du Sud-Ouest, France</p> <p>EU-00313 Static positioning performance of GPS receivers in mobiles
Kresimir Vidovic, Ericsson Nikola Tesla, Croatia</p> <p>EU-00597 ITS using GNSS, an assessment of spoofing detection methods
Gregoire Duchateau, Thales Alenia Space, France</p> |
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TS061 – Travel information (2)

Wednesday 24 October 2012, 14.00–15.30

Business Suite 3/4 Room

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| <p>AP-00043 Development of framework for integrated transport information database using cloud computing system
Hiroaki Nishiuchi, College of Science and Technology, Nihon University, Japan</p> <p>EU-00098 Analysing of quality of traffic data acquisition infrastructure – procedure and first results
Toni Weisheit, University of Kassel, Germany</p> <p>AP-00259 Study on drivers' comprehension and response to traffic information on advanced graphical route information panels displaying graphic symbols
Yasuhiro Shiomi, Kyoto University, Japan</p> | <p>EU-00318 The German mobility data marketplace and the traffic data of the Federal State Saxony-Anhalt
Susanne Matschek, Institute f. Automation and Communication, Germany</p> <p>AP-00328 Using traffic information in operations and logistics management for major sporting events
Mohit Sindhvani, Quantum Inventions, Singapore</p> <p>EU-00543 Prototyping novel automotive UIs with the ROADS SAFE toolkit
Peter Fröhlich, Telecommunications Research Center – FTW, Austria</p> |
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TS062 – Vulnerable and impaired mobility travellers (2)

Wednesday 24 October 2012, 16.00–17.30

Business Suite 2 Room

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| <p>AP-00064 A study on the crossing behaviour of the pedestrians at the intersection by approaching right-turning vehicle
Hidekatsu Hamaoka, Akita University, Japan</p> <p>EU-00113 The iMo project - Individualised location-based transportation services for elderly people in rural areas
Wolfgang Inninger, Fraunhofer IML, Germany</p> <p>EU-00205 Opportunities for safer cycling through ITS
Ronald Jorna, Mobycon, The Netherlands</p> | <p>EU-00380 In-vehicle navigation systems and older drivers
Christopher Emmerson, Newcastle University, United Kingdom</p> <p>EU-00525 Set-up and real-traffic assessment of a platform for vulnerable-road-user active safety
Marco Dozza, Chalmers University of Technology, Sweden</p> <p>EU-00568 NAVCOM – WLAN communication with public transport vehicles to support visually impaired and blind people
Werner Bischof, FH-JOANNEUM GmbH, Austria</p> <p>EU-00607 DeerDeter - Smart cooperative infrastructure sensors prevent wildlife accidents
Andreas Schalk, IPTE - Schalk & Schalk OG, Austria</p> |
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TS063 – Sensor & detection systems – General (3)

Thursday 25 October 2012, 09.00–10.30

Business Suite 2 Room

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| <p>AP-00013 Extraction of vehicle queues using a satellite image
Hitoshi Saji, Shizuoka University, Japan</p> <p>AP-00101 The development of image processing system for the traffic control centre
Akifumi Shintaku, Central Nippon Expressway Company Limited, Japan</p> <p>AM-00125 New data sources for 21st century traffic adaptive control
Daniel Benhammou, Acyclica Inc., USA</p> <p>AP-00218 Experimental based traffic flow detectors data accuracy evaluation
Yaqiao Zhai, Beijing Transportation Research Center, China</p> | <p>AP-00247 A method to prevent target misdetection in DS-SS radar
Yuji Oda, Toyota Motor Corporation, Japan</p> <p>EU-00591 Weather applications and services in Field Operational Tests
Pertti Nurmi, Finnish Meteorological Institute, Finland</p> <p>EU-00562 Superior to bluetooth traffic sensors? A novel vehicle detection approach using TPMS' sensor messages
Jan Schulz, German Aerospace Center – DLR, Germany</p> |
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TS064 – Navigation system & digital maps (1)

Thursday 25 October 2012, 11.00–12.30

Stolz 1 Room

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| <p>AP-00236 Framework of road-update information and its collection from road managers
Yoshihide Sekimoto, University of Tokyo, Japan</p> <p>EU-00314 Precise and dynamic road mapping creation
André Perpey, Geoloc Systems, France</p> <p>EU-00347 TPEG-ULR: A new approach for dynamic location referencing
Matthias Schmidt, Fraunhofer FIRST, Germany</p> <p>AP-00352 A text matching assisted positioning system for pedestrian navigations using a spot information database
Tomotaka Nagaosa, Kanto Gakuin University, Japan</p> | <p>AP-00359 Automated map update system based on high accurate positioning technology for car navigation system
Shuji Nakamura, DENSO Corporation, Japan</p> <p>EU-00467 Map-based location referencing: status and prospects
Kees Wevers, The Netherlands</p> <p>AM-00110 Modelling driver heterogeneity in route choice behaviour based on a real-life naturalistic driving experiment
Aly Tawfik, Virginia Tech, USA</p> |
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TS065 – Incident & congestion management (1)

Thursday 25 October 2012, 11.00–12.30

Stolz 2 Room

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| <p>AM-00051 Real time performance measures for signalised intersections
Kelvin Santiago, University of Wisconsin, USA</p> <p>EU-00133 Managed motorways: keeping business moving
Jennifer Ogawa, Mott MacDonald, United Kingdom</p> <p>AP-00258 Methodology for clarifying the acceptable level of sensor reliability for collision avoidance at intersections
Keisuke Suzuki, Kagawa University, Japan</p> | <p>AP-00298 3D laser radar for traffic safety system
Kiyohide Sekimoto, IHI Corporation, Japan</p> <p>EU-00491 Impact of variable speed limits on motorway level of service
Justin Geistefeldt, Ruhr-University Bochum, Germany</p> <p>EU-00658 Improvements in traffic management by using a control algorithm based on the probability of breakdown
Christoph Schwietering, Heusch/Boesefeldt GmbH, Germany</p> |
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TS066 – Electronic payment & ticketing

Thursday 25 October 2012, 11.00–12.30

Lehar 1 Room

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| <p>AP-00014 Battery powered active DSRC OBU for multi-card usage
Keiji Terasaka, Mitsubishi Heavy Industries Ltd., Japan</p> <p>AP-00048 New GNSS/CN based road pricing system
Yoshihiro Mabuchi, Mitsubishi Heavy Industries Ltd., Japan</p> <p>EU-00059 Fare collection data analytics and visualisation for public transportation
Victor Ciriza, Xerox Research Centre Europe, France</p> <p>AP-00281 Developments of safe ETCS operation guidelines using vehicle speed trajectory analysis
Younshik Chung, The Korea Transport Institute - KOTI, Korea</p> | <p>EU-00391 New trends in AFC system from Bucharest
Cristian Ionescu, UTI Systems, Romania</p> <p>EU-00660 Multimodal, multiservice, multichannel payment and ticketing within ATTAC project
Monica Giannini, Pluservice, Italy</p> <p>EU-01005 Electronic ticketing system for urban public transport: A transformational change far beyond fare collection automation
Farshad Jalali, Tehran Traffic Control Company, Iran</p> |
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TS067 – Preventive & active safety systems (1)

Thursday 25 October 2012, 11.00–12.30

Lehar 2 Room

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| <p>AP-00054 Evaluation of decision-making ability in car driving while operating interior devices based on Probability-Weighted ARX models
Hiroyuki Okuda, Nagoya University/JST CREST, Japan</p> <p>EU-00241 Safety-related variable message signs in traffic control applications
Thomas Novak, SWARCO FUTURIT, Austria</p> <p>EU-00361 Integrated safety functions in the automatic transport system of Oeiras
Francisco Lourenço, SATU-Oeiras, EM, SA, Portugal</p> | <p>EU-00443 Cooperative traffic management using satellite enabled ITS platform
Guy Fremont, Sanef, France</p> <p>EU-00472 When the speed limits follow the driver
Frank Lai, University of Leeds, United Kingdom</p> <p>EU-00625 Localisation and evacuation of travellers in emergency situations: The Save-Me project
Phil Blythe, Newcastle University, United Kingdom</p> <p>EU-00730 Intelligent speed adaptation for involuntary drivers – Final results
Niels Agerholm, Aalborg University, Denmark</p> |
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TS068 – V-to-X: Communication technologies (2)

Thursday 25 October 2012, 11.00–12.30

Lehar 3 Room

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| <p>AM-00012 Paradigm change of vehicle cyber-security
Hirofumi Onishi, Alpine Electronics Research of America, USA</p> <p>EU-00022 Progressive IP standardisation of highways agency communications and control infrastructure using IP translator
Gabriel Ozique, Fluor Corporation, United Kingdom</p> <p>AP-00062 Super directional microphone array for vehicles
Naoshi Matsuo, Fujitsu Laboratories, Japan</p> <p>AP-00136 Development and evaluation of order and payment system via internet in-vehicle use
Yuriko Hattori, Mitsubishi Heavy Industries Ltd., Japan</p> | <p>EU-00231 RF and baseband SOC in 65 nm CMOS for ITS applications
Mats Carlsson, Catena Wireless Electronics AB, Sweden</p> <p>EU-00512 RUG: an experimentally validated urban propagation model quantifying the incidence of hidden terminals in VANETS
Riccardo Scopigno, Istituto Superiore Mario Boella, Italy</p> <p>EU-00553 Foresighted driver warning using a heterogeneous communication system – An insight from the CoCarX project
Christian Röss, Ford Motor Company, Germany</p> |
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TS069 – Electromobility – Vehicles (3)

Thursday 25 October 2012, 11.00–12.30

Lehar 4 Room

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| <p>AP-00069 An analysis of daily auto use in Japan and the estimation of the vertical alignment of expressways for the expanded use of EVs
Harutoshi Yamada, The University of Tokyo, Japan</p> <p>EU-00086 ELVIRE – European research project on ICT for electric vehicles
Hannes Luettringhaus, Continental, Germany</p> <p>AP-00212 Efficient deployment of chargers for electric vehicles
Kazuyuki Miyakita, Niigata University, Japan</p> | <p>EU-00297 The intelligence behind electromobility
Norbert Vierheilig, Siemens AG, Germany</p> <p>AP-00303 Influence of information of deceleration intention to following vehicle
Yuichi Saito, National Institute of Advanced Industrial Science and Technology, Japan</p> <p>EU-00338 User needs in the field of electric mobility – Testing a GPS approach
Juliane Stark, Institute for Transport Studies, Austria</p> |
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TS070 – Freight & logistics (2)

Thursday 25 October 2012, 11.00–12.30

Schubert 1 Room

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| <p>AP-00004 Weigh-in-motion and ITS: Heavy vehicle on-board weighing using intelligent access programme
Steve Coleman, Transport Certification Australia, Australia</p> <p>AM-00022 Freight truck assignment from RFID flow analysis
Alexandre Rojas, Coppe/UFRJ, Brazil</p> <p>AM-00092 Rodoanel – security and logistics
Eduardo Dias, Universidade de São Paulo, Brazil</p> | <p>EU-00533 Advanced logistics and supply chain management for intelligent and sustainable transport
Meng Lu, Dutch Institute for Advanced Logistics, The Netherlands</p> <p>EU-00681 The iCargo reference value chain applied to the green corridor and LSP–shipper cooperation business cases
Valentina Boschian, Bluegreen Strategy srl, Italy</p> |
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TS071 – Impact & benefits assessment (1)

Thursday 25 October 2012, 11.00–12.30

Schubert 2 Room

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| <p>AM-00003 HUB-CAP, highway user benefit-cost analysis programme
Edreec Azimi-Ghomi, VDOT – Virginia DOT, USA</p> <p>AM-00023 Estimating non-recurrent congestion benefits of ITS deployments
Akhil Chauhan, ARCADIS, USA</p> <p>AP-00149 Traffic simulator model validation comparing real and virtual test result
Takahisa Yamashiro, DENSO Corporation, Japan</p> | <p>AP-00225 Research on the performance evaluation trend of ITS equipment in Korea
Yoon Mishin, ITS Korea, Korea</p> <p>AP-00353 A hybrid ITS simulation framework with parallel inter-simulator synchronisation
Minho Shin, Myongji University, Korea</p> <p>EU-00647 Creating research hypotheses and defining measurements for FOT evaluation
Pirkko Rämä, Technical Research Centre – VTT, Finland</p> |
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TS072 – Traffic control – Urban

Thursday 25 October 2012, 11.00–12.30

Schubert 3 Room

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| <p>AP-00077 Study on capacity of dual-right-turn-lanes at signalised intersections under mixed traffic conditions
Huan Cheng, Beijing University of Technology, China</p> <p>AM-00082 New York City intelligent transportation system building blocks
Raymundo Martinez, TransCore/JHK Engineering, USA</p> <p>AM-00108 Lessons learned from a large scale wireless traffic control system deployment
Robert Rausch, TransCore, USA</p> | <p>AP-00272 The pickup problem with time window constraints for taxi pooling
Tsung-Nan Liu, Feng Chia University, Chinese Taipei</p> <p>EU-00348 Combining signal-group oriented control with guaranteed greenwaves
Robbin Blokpoel, Peek, The Netherlands</p> <p>EU-00752 Challenges of limiting traffic and the use of ANPR in controlling the entrance to the restricted traffic zone in developing countries
Amirpooriya Chavoshi, Tehran traffic organization, Iran</p> |
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TS073 – Human factors & HMI (3)

Thursday 25 October 2012, 11.00–12.30

Schubert 4 Room

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| <p>AP-00065 Development of an ear-clip-type optical biosensor for a fleet management system to detect drivers' drowsiness
Yasuhiko Nakano, Fujitsu Laboratories, Japan</p> <p>AP-00072 Hierarchical modelling of obstacle avoidance and steering behaviour
Kenta Maeda, Meijo University, Japan</p> <p>AP-00139 Influence of bus collision warning interface design on bus driver behaviours and mental workload
Wan-Hui Chen, Tamkang University, Chinese Taipei</p> | <p>EU-00145 Manual operation of ITS systems while driving: A naturalistic driving study results on mobile phone and navigation devices.
Nicole van Nes, SWOV, The Netherlands</p> <p>AP-00299 An experimental study on appropriate distance on platooning for driver-relationship driver's feature, distance and benefit
Naohisa Hashimoto, National Institute of Advanced Industrial Science and Technology, Japan</p> <p>AP-00347 Development of an emergency driving support algorithm using MDPS torque overlay and differential braking
Jaewoong Choi, Seoul National University, Korea</p> |
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TS074 – V-to-I applications – Communications (3)

Thursday 25 October 2012, 11.00–12.30

Schubert 5 Room

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| <p>AP-00140 The evaluation of WAVE communication for seamless services under high speed environment
Jin Ki Lee, ITS Korea, Korea</p> <p>AP-00152 A CMOS optoelectronic IC using a monolithic photodiode for wireline networks
Won-Seok Oh, Korea Electronics Technology Institute - KETI, Korea</p> <p>AP-00203 Centralised TDMA MAC for advanced ITS applications
Hyunyun Choi, Electronics and Telecommunications Research Institute - ETRI, Korea</p> | <p>AP-00307 A quantitative estimation of interference effect on V2X communication systems from adjacent frequency systems at 700MHz band
Ippei Sugae, AISIN SEIKI Co. Ltd., Japan</p> <p>EU-00435 Enabling the deployment of open in-vehicle ITS stations
Jan Holle, University of Siegen, Germany</p> <p>EU-00580 ITS platform North Denmark - Idea, content and status
Harry Lahrmann, Aalborg University, Denmark</p> <p>EU-00652 Disruption tolerance in vehicle to infrastructure communication: Making a case for intelligent roadside infrastructure
Sandford Bessler, FTW Telecommunication Research Center, Austria</p> |
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TS075 – Traffic control – Non urban

Thursday 25 October 2012, 11.00–12.30

Schubert 6 Room

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| <p>EU-00136 Case study of temporary hard shoulder running in Austria
Martin Fellendorf, Graz University of Technology, Austria</p> | <p>EU-00440 Co-operative optimisation of traffic signal control within the Bavarian Project KOLIBRI
Alexander Dinkel, TRANSVER GmbH, Germany</p> |
| <p>EU-00248 Incident detection and management with an integrated control and management system
Padma Kamath, Alcatel-Lucent, United Kingdom</p> | <p>EU-00526 Port Road Management – Innovative traffic management in the port of Hamburg
Sascha Westermann, Hamburg Port Authority, Germany</p> |
| <p>AP-00320 A study on integrated SCATS intersection and ramp metering control
Carlos Aydos, Roads and Maritime Services, Australia</p> | <p>EU-00628 Cooperative ITS messages for green mobility: An overview from the eCoMove project
Francesco Alesiani, NEC Europe Ltd., Germany</p> |

TS076 – Traffic & network management – Interurban (2)

Thursday 25 October 2012, 11.00–12.30

Business Suite 1 Room

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| <p>AP-00022 Development of road surface friction monitoring system
Naoto Takahashi, Civil Engineering Research Institute for Cold Region, Japan</p> | <p>EU-00410 Concept of an "intelligent" traffic control network
Andreas Kuhn, Andata GmbH, Austria</p> |
| <p>EU-00135 A holistic strategy for traffic management development in The Netherlands
Antoinede Kort, Rijkswaterstaat, The Netherlands</p> | <p>EU-00483 Freeway traffic flow control with variable speed limits and ramp metering
Ali Sercan Kesten, Tokyo Institute of Technology, Japan</p> |
| <p>EU-00199 Applied incident management for selective prevention and release in safety critical situations
Rudolf Benedik, Kapsch TrafficCom AG, Austria</p> | <p>EU-00634 Data collection without road surface contact
Patrick Potgraven, De VerkeersInformatie Dienst, The Netherlands</p> |
| <p>EU-00268 Assigning timeslots for road works – A new approach to traffic flow orientated road works management
Achim Reusswig, Hessen Mobil – Strassen- und Verkehrsmanagement, Germany</p> | |

TS077 – Sensor & detection system – Non urban applications

Thursday 25 October 2012, 11.00–12.30

Business Suite 2 Room

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| <p>EU-00023 Managed motorway network solution using "all fibre technology"
Gabriel Ozique, Fluor Corporation, United Kingdom</p> <p>AP-00121 A study of vehicle detection using millimeter-wave radar in Korea
Kazuhiko Shite, Fujitsu Coporation Ltd., Japan</p> <p>AP-00172 A congestion detection method based on expressway DSRC data
Seongmin Jeon, Ajou University, Korea</p> | <p>EU-00531 LOOK2: A video-centric system for real-time notification and presentation of relevant traffic situations in Austria
Roland Tusch, Alpen-Adria-Universität Klagenfurt, Austria</p> <p>EU-00617 A large scale application for Bluetooth-based travel time measurement in The Netherlands
Fabrizio Biora, Mizar Automazione, Italy</p> <p>EU-00663 Special applications and innovative aspects in a nation-wide motorway video-system
Bernhard Schalko, ASFINAG, Austria</p> |
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TS078 – Travel information (3)

Thursday 25 October 2012, 11.00–12.30

Business Suite 3/4 Room

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| <p>AP-00012 Simulation based mixed ETC/MTC freeway toll station capacity
Liu Lili, Transportation Research Center, Beijing University of Technology, China</p> <p>EU-00131 Travel time estimation based on bluetooth sensors: results of a comparative field test
Åke Egemalm, Danish Road Directorate, Denmark</p> <p>AP-00188 Using ETC data and detector data to derive information of route choices on Tokyo Metropolitan Expressway (MEX)
TawinTiratanapakhom, The University of Tokyo, Japan</p> | <p>AP-00243 Travel time prediction models with reliabilities for urban arterial streets
Ta-Yin Hu, National Cheng Kung University, Chinese Taipei</p> <p>EU-00750 VMS harmonisation in Europe: the case for topological road signs
Antonio Lucas-Alba, University of Zaragoza, Spain</p> |
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TS079 – Decision support techniques (1)

Thursday 25 October 2012, 14.00–15.30

Stolz 1 Room

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| <p>AM-00021 The TomTom global traffic congestion index
Nick Cohn, TomTom, The Netherlands</p> <p>EU-00143 BLIDS - A Bluetooth-based traffic data collection system supporting international Traffic Management Plans
Daniela Augustin, ASFINAG, Austria</p> <p>EU-00337 Microscopic real-time simulation of Dresden using data from the traffic management system VAMOS
Robert Oertel, German Aerospace Center - DLR, Germany</p> | <p>AP-00354 A smart traffic performance monitoring and decision-making supporting system
Jianping Sun, Beijing Transportation Research Center, China</p> <p>EU-00602 RSA Gauteng open road tolling – A case study of successful risk and incentive allocation in a through life turnkey project
Magnus Westroth, Kapsch TrafficCom AB, Sweden</p> <p>EU-00671 Decision support systems for road traffic management in Europe
Khaled El-Araby, Transver GmbH, Germany</p> |
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TS080 – European Electronic Toll Service (EETS) (1)

Thursday 25 October 2012, 14.00–15.30

Stolz 2 Room

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| <p>EU-00115 Increasing number of passengers in Belgrade through intelligent transportation systems
Guliz Ozturk, Kentkart Ege Elektronik, Turkey</p> <p>AM-00129 LEDDAR™ technology for accurate automatic vehicle classification sensor
YvanMimeault, LeddarTech, Canada</p> <p>EU-00144 EETS Suitability for use within the EasyGo context
Lilia Halsen Bidar, Sweco AB, Sweden</p> | <p>AP-00167 A study on the effective utilisation of data from ETC (Electronic Toll Collection) system on motorways in Japan
Yoshiyasu Murashige, Expressway Technical Research Institute, Japan</p> |
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TS081 – Multi-modal real-time information: Analysis

Thursday 25 October 2012, 14.00–15.30

Lehar 1 Room

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| <p>AM-0078 Utilising archived ITS data: Opportunities for public transport
Carol Schweiger, TranSystems Corporation, USA</p> <p>AP-00235 Passenger waiting time optimisation based on headway regularity control
Xiao He, Tongji University, China</p> <p>EU-00269 The MOVE project: Smartphones for smart travel-behaviour data analyses
Sven Vlassenroot, Ghent University, Belgium</p> <p>EU-00281 Real-world patient transportation
Ulrike Ritzinger, AIT Austrian Institute of Technology, Austria</p> | <p>AP-00289 Real-time bus arrival information reliability
Kyungwoo Kang, Hanyang University, Korea</p> <p>EU-00484 Trans-disciplinary research on mobility behaviour. Assessing the potential of a multi-modal traveller information system in the Vienna region.
Gerit Goetzenbrucker, University of Vienna, Austria</p> <p>EU-00633 When is my bus coming? Performance of the new bus arrival prediction algorithm on the London bus Network
Mauro Manela, Transport for London - TfL, United Kingdom</p> |
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TS082 – Secure systems & infrastructures

Thursday 25 October 2012, 14.00–15.30

Lehar 2 Room

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| <p>AP-00076 Study on evacuation capacity under emergency of subway station
Huan Cheng, Beijing University of Technology, China</p> <p>EU-00264 Safe navigation for hazardous goods transport: results from the project SafeNav
Lars Holstein, Economic Development Cooperation Berchtesgadener Land, Germany</p> <p>EU-00265 ITS based on EGNOS for enhancing the safety of dangerous goods transport
Antonella Di Fazio, Telespazio, Italy</p> | <p>EU-00563 Real time risk assessment for road tunnels
Werner Balz, PTV AG, Germany</p> <p>EU-00710 Dangerous goods transport – telematics, standards and regulation – A case study
Jonathan Harrod Booth, Harrod Booth Consulting Ltd., United Kingdom</p> |
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TS083 – V-to-X: Communication technologies (3)

Thursday 25 October 2012, 14.00–15.30

Lehar 3 Room

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| <p>AP-00010 Decentralised broadcast of traffic flow information by V2V communication network
Hiroyuki Tanabe, Honda R&D Co., Japan</p> <p>AP-00074 Performance analysis of V2V DSRC communications with reconfigurable antenna
Rong-Terng Juang, Automotive Research & Testing Center, Chinese Taipei</p> <p>AP-00126 Load balancing scheme for vehicle ad hoc network on freeways
Kuan-Lin Chiu, Industrial Technology Research Institute – ITRI, Chinese Taipei</p> | <p>AP-00211 Performance analysis of a WAVE prototype device in vehicle to infrastructure communication scenario
Luoyi Huang, Tongji University, China</p> <p>EU-00385 Smart grid and wireless vehicular networks for seaport logistics operations
Adrian Coronado, Royal Holloway University of London, United Kingdom</p> <p>EU-00431 Using ITS deployments for wireless network performance monitoring
Tatiana Madsen, Aalborg University, Denmark</p> <p>EU-00559 DVB-T2: A broadcast medium for cooperative systems
Peter Meckel, ASFINAG, Austria</p> |
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TS084 – Eco-driving and eco-routing (1)

Thursday 25 October 2012, 14.00–15.30

Lehar 4 Room

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| <p>EU-00068 Traffic monitoring sensor with vehicle trajectory measurement for acceleration detection
Martin Litzenberger, AIT Austrian Institute of Technology, Austria</p> <p>EU-00034 Learning infotainment component for an improved eco-routing and eco-driving performance
Adrien Marquette, Robert Bosch Car Multimedia GmbH, Germany</p> <p>AP-00174 A field trial of the green light optimal speed advisory
Tomo Fujimaki, Honda R&D Co., Ltd., Japan</p> | <p>EU-00192 Validation methodology focussing on fuel efficiency as applied in the eCoMove project
Philipp Themann, Institut für Kraftfahrzeuge – RWTH Aachen University, Germany</p> <p>AP-00341 Effects of eco-driving instructions on vehicle with automatic transmission on urban roads
Andry Rakotonirainy, Queensland University of Technology, Australia</p> <p>EU-00374 Ecodriving support based on cooperative prediction models
Philipp Themann, Institut für Kraftfahrzeuge – RWTH Aachen University, Germany</p> |
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TS085 – Freight & logistics (3)

Thursday 25 October 2012, 14.00–15.30

Schubert 1 Room

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| <p>AM-00133 Development of a smart corridor
Joseph Lam, Delcan International Corporation, Canada</p> <p>EU-00207 RFID for increased efficiency in intermodal chains
Jan Bergstrand, Swedish Transport Administration – STA, Sweden</p> <p>AP-00230 The suggestion of the integrated operation method for a WIM and an ETC system
Eun Joo Hong, ITS Korea, Korea</p> | <p>EU-00292 Detection of dangerous goods placards for road and tunnel safety
Martin Linauer, Kapsch TrafficCom AG, Austria</p> <p>EU-00302 Technological solutions to improve mobility in goods transport
Javier Rojo Fernández, Indra Sistemas, Spain</p> <p>EU-00685 An instrument for the protection of the territory through the knowledge of the risk associated to transport activity of dangerous goods by road.
Paolo Gandini, Politecnico di Milano, Italy</p> |
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TS086 – Impact & benefits assessment (2)

Thursday 25 October 2012, 14.00–15.30

Schubert 2 Room

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| <p>EU-00046 ITS implementation - The Swedish way, "interaction".
Hans Rode, Swedish Transport Administration
- STA, Sweden</p> <p>EU-00444 Cooperative systems enabling beneficial partnerships
Jaap Vreeswijk, Peek Traffic bv, The Netherlands</p> <p>EU-00446 Cooperative services: managing evaluation challenges in the Austrian FOT "Testfeld Telematik"
Doris Bankosegger, High Tech Marketing, Austria</p> <p>EU-00500 Lessons and prospects from the Strategic Platform for Intelligent Transport Systems (SPITS) project in the The Netherlands
Maartje Stam, Logica, The Netherlands</p> | <p>EU-00565 An integrated approach to the traffic efficiency impact evaluation of cooperative systems in FOTs and traffic simulation
Mathias Baur, Technische Universität München, Germany</p> <p>EU-00659 SISCOGA – Results of Spanish FOT on cooperative systems
David Sanchez, CTAG, Spain</p> <p>EU-01000 The Hague trilogy part 2: Urban ITS connected
Toine Molenschot, City of The Hague, The Netherlands</p> |
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TS087 – Incident & congestion management (2)

Thursday 25 October 2012, 14.00–15.30

Schubert 3 Room

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| <p>AM-00086 Minnesota smart lanes: active traffic management
Brian Kary, Minnesota DOT, USA</p> <p>AP-00207 GMR-based traffic data acquisition; towards a design of real-time traffic analysis system
Ibrahim Delibasoglu, Yalova University, Turkey</p> <p>AP-00335 Safety indices for the evaluation of rear-end collision risk
Taeyoung Lee, Seoul National University, Korea</p> <p>AP-00346 Verification on impairment of concentration by regulation of light-emitting devices
Kouji Yamamoto, Central Nippon Expressway Co. Ltd., Japan</p> | <p>EU-00358 Virtual ITS-evaluation – Establishment of micro simulation for the city centre of Zurich
Christian Heimgartner, Division of Transport, Switzerland</p> <p>EU-00560 Incident management in Finnish road traffic – introduction to detailed procedures
Sami Luoma, Finnish Transport Agency - FTA, Finland</p> |
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TS088 – Human factors & HMI (4)

Thursday 25 October 2012, 14.00–15.30

Schubert 4 Room

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| <p>AP-00046 Results and discussion of multiple experiments on the timing of cognitive judgements based on traffic conditions
Kazumoto Morita, National Traffic Safety and Environment Laboratory, Japan</p> <p>AP-00107 An automatic lexicon collection method using wisdom of crowds for speech interfaces of vehicle information services
Nobuyuki Katae, Fujitsu Laboratories, Japan</p> <p>AP-00143 Intuitively speech interface for vehicle information systems
Jun Takahashi, Fujitsu Laboratories, Japan</p> | <p>AP-00192 Robust estimation of driver's posture from seated position using seat sensor
Jun Ito, Aichi Prefectural University, Japan</p> <p>AP-00266 Drive-Recorder, a new type of video recorder, and ITS images using for self-learning system
-Applying affordance theory.
Koji Ukena, UK Consultant, Japan</p> <p>EU-00293 Detailed FOT in Greece for assessing the impact of nomadic devices within TeleFOT IP
Evangelia Gaitanidou, Center for Research and Technology Hellas - CERTH/Hellenic Institute of Transport - HIT, Greece</p> <p>AP-00306 A Study of individual characteristics of driving behaviour based on Hidden Markov model
Xiaohua Zhao, University of China, China</p> |
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TS089 – Floating car & floating phone data (3)

Thursday 25 October 2012, 14.00–15.30

Schubert 5 Room

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| <p>AP-00168 Effectiveness evaluation of ITS spot services in full-scale operation throughout Japan
Satoru Nakamura, NILIM, Ministry of Land, Infrastructure, Transport and Tourism – MLIT, Japan</p> | <p>EU-00256 London pedestrian tracking trial using mobile phone technology
Steve Kearns, Transport for London – TfL, United Kingdom</p> |
| <p>AP-00234 Estimation of traffic signal parameters by FCD
Chunmei Wang, Cennavi Technologies Co., China</p> | <p>EU-00344 Distributed travel mode estimation
Lars Randleff, Hermes Traffic Intelligence, Denmark</p> |
| <p>EU-00242 Traffic analysis using cellular network data
Michael Cik, Graz University of Technology, Austria</p> | <p>EU-00455 The quality of floating car data benchmarked
Georgede Boer, TomTom, The Netherlands</p> |

TS090 – Navigation system & digital maps (2)

Thursday 25 October 2012, 14.00–15.30

Schubert 6 Room

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| <p>EU-00070 GIP.gv.at – The project for the automatic update of transport data on the Graph Integration Platform
Christoph Westhauser, Federal Government of Lower Austria, Austria</p> | <p>EU-00499 How navigation centric traffic management is rapidly changing traffic management already today
Carlo Van de Weijer, TomTom International BV, The Netherlands</p> |
| <p>AP-00102 Wrong-way caution system on motorways based on car navigation system
Masatoshi Takahara, Aisin AW, Japan</p> | <p>EU-00733 TBus: GPL platform for standardised communications in public transport
Juanjo Ruiz, AtoS, Spain</p> |
| <p>EU-00335 C-S transport-optimisation – A solution for web-based trip optimization basing on OpenStreetMap
Markus Klug, University of Applied Sciences Technikum Wien, Austria</p> | <p>EU-00736 "UNTERWEGS" an App for traffic information of Austria's road operator ASFINAG
Niklas Rausch, ASFINAG, Austria</p> |

TS091 – Traffic & network management – Interurban (3)

Thursday 25 October 2012, 14.00–15.30

Business Suite 1 Room

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| <p>EU-00024 Forecasting of traffic jams
Igor Grabec, Amanova, Slovenia</p> | <p>EU-00240 Developing a TMP for a Spanish tunnel using the EasyWay deployments guidelines
Vicente R. Tomás López, UJI, Spain</p> |
| <p>EU-00132 Shared development and maintenance of TCC software: The NERZ Example
Reiner Doelger, Ministry for Transport, Rheinland-Pfalz, Germany</p> | <p>EU-00417 Detailed FOT for the analysis of effects between nomadic devices and ADAS
Devid Will, Institut für Kraftfahrzeuge – RWTH Aachen University, Germany</p> |
| <p>EU-00156 Interaction of Automatic Traffic Control & Toll Collection Systems – The M4 "Don" Highway, an example from Russia
Gilbert Konzett, Kapsch, Austria</p> | <p>EU-00655 Traffic information service for customers – strategic goals, measures and examples by the Austrian motorway company ASFINAG
Manfred Harrer, ASFINAG, Austria</p> |
| <p>EU-00236 ITS strategy in Bavaria – Organisation of traffic management and traffic information provision
Ulrich Haspel, Bavarian Road Administration, Germany</p> | |

TS092 – Sensor & detection system – Urban applications

Thursday 25 October 2012, 14.00–15.30

Business Suite 2 Room

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| <p>EU-00041 Green urban mobility enhanced by Copenhagen's ITS new partnership
Bas Heutinck, Peek - Imtech, The Netherlands</p> <p>EU-00083 Traffic counting at intersections by bluetooth-technology
Susanne Roggendorf, DTV-Verkehrsconsult GmbH, Germany</p> <p>AP-00090 A novel vehicle tracking method on infrared image processing and traffic jam detection
Shinichi Miyamoto, NEC, Japan</p> | <p>AP-00286 Generalisability and transferability of incident detection algorithm using dynamic time warping
Kittipong Hiriottappa, NECTEC, Thailand</p> <p>EU-00605 A virtual-loop based approach to traffic management and road safety in cities
Jordi Picazo, Quercus Technologies, Spain</p> <p>EU-00622 Intelligent streetlights for sustainable traffic management
Thomas Novak, SWARCO FUTURIT, Austria</p> |
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TS093 – Policy & strategy (4)

Thursday 25 October 2012, 14.00–15.30

Business Suite 3/4 Room

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| <p>AP-00020 ITS capabilities that embrace the future
Deidre Hills, New Zealand Transport Agency, New Zealand</p> <p>EU-00112 An organisational view on intelligent transportation systems: what can we learn from social theory?
Christopher Schlembach, Kuratorium für Verkehrssicherheit, Austria</p> <p>EU-00306 Women's everyday mobility supported by e-bikes
Christine Chaloupka-Risser, Factum OG, Austria</p> | <p>EU-00666 Experiences from two ridesharing pilots, focusing on the users
Brita Gjerstad, International Research Institute of Stavanger (IRIS), Norway</p> <p>EU-00684 The road operator in the operation process of future cooperative services – Results of a stakeholder analysis performed by the EasyWay cooperative systems task force.
Roland Schindhelm, Federal Highway Research Institute, Germany</p> |
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TS094 – Electromobility – Infrastructure (1)

Thursday 25 October 2012, 17.45–19.00

Schubert 1 Room

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| <p>AP-00130 Centralised management system of multiple EVs for optimal operation
Kyoko Oshima, Mitsubishi Heavy Industries, Ltd., Japan</p> <p>EU-00320 Linking electro mobility, eco-routing and charging infrastructure
Michael Fasching, Atos IT Solutions and Services GmbH, Austria</p> <p>AP-00333 A robust aggregated message authentication protocol for vehicle-to-grid networks
Huei-Ru Tseng, Industrial Technology Research Institute, Chinese Taipei</p> | <p>EU-00383 The use of ITS in understanding EV charging behaviour to inform future smart charging infrastructure
Craig Higgins, Newcastle University, United Kingdom</p> <p>EU-00419 Optimal fully electric vehicle energy efficiency & recovery in an intelligent transportation system
Stephen Jones, AVL, Austria</p> |
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TS095 – Policy & strategy (5)

Thursday 25 October 2012, 17.45–19.00

Schubert 2 Room

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| <p>EU-00092 A road map for establishing a regional ITS cluster
Annica Roos, ITSdalarna, Sweden</p> <p>EU-00118 Assessment of financial viability for an intelligent mobility system
Cristina d'Alessandro, Fondazione FORMIT, Italy</p> <p>AP-00185 Solving the dilemma for deploying advanced traffic management systems in developing countries
Wen Jing Huang, CECI Engineering Consultants, Inc., Chinese Taipei</p> <p>EU-00316 Experiences and benefits of PPP in enhanced traffic information delivery
Arto Luoma, Infotripla, Finland</p> | <p>EU-00644 XaaS services as modern infrastructure of ITS in the Republic of Croatia
Dragan Perakovic, University of Zagreb, Croatia</p> <p>EU-01001 Bringing intelligence to transportation systems in Abu Dhabi
Hicham Chatila, Transpo Group, United Arab Emirates</p> |
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TS096 – Incident & congestion management (3)

Thursday 25 October 2012, 17.45–19.00

Schubert 3 Room

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| <p>AM-00034 Traffic incident management produces a traffic operations culture for metropolitan Detroit
Richard Beaubien, Beaubien Engineering, USA</p> <p>AP-00041 Traffic measure with cooperative system utilising portable traffic detector and mobile LED variable message signboard
Takeshi Matsushita, West Nippon Expressway Company Limited, Japan</p> | <p>EU-00342 Efficient real time road network management system
André Perpey, Geoloc Systems, France</p> <p>EU-00692 Intelligent Mobility
Richard Parry-Jones, The Automotive Council, United Kingdom</p> <p>EU-00700 Analysis of large-scale traffic dynamics using the non-negative tensor factorisation
Yufei Han, INRIA Saclay, France</p> |
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TS097 – Driver assistance & support systems (3)

Thursday 25 October 2012, 17.45–19.00

Schubert 4 Room

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| <p>EU-00016 Assisting drivers' merging onto the motorway: Evaluation of a new advanced driver assistance system (ADAS) using multi-driver simulation
Christian Maag, University Wuerzburg, Germany</p> <p>EU-00066 Safety assessment methodology in interactive
Martijn van Noort, Netherlands Organisation for Applied Scientific Research – TNO, The Netherlands</p> <p>AM-00093 Safety impact and driver acceptance of an integrated crash warning System for Heavy Trucks
Emily Nodine, Volpe Center/US DOT, USA</p> <p>AP-00104 Evaluation of the developed assistance method for improving lane change maneuver by using highly realistic driving simulator
Kei Sato, Tokyo University of Agriculture and Technology, Japan</p> | <p>AP-00125 Effect of forward obstacles collision warning system based on deceleration for collision avoidance on driving behavior
Shota Takada, Kyoto University, Japan</p> <p>AP-00348 Design of an integrated chassis control systems using lateral dynamics stability control and semi-active suspension control
Hyundong Her, Seoul National University, Korea</p> <p>EU-00712 For improving safety on roads outside built-up areas with cooperative/self-sufficient advanced assistance driver systems
Jean Emmanuel Bakaba, German Insurance Association, Germany</p> |
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TS098 – V-to-X: Communication technologies (4)

Thursday 25 October 2012, 17.45–19.00

Schubert 5 Room

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| <p>AM-00013 Wireless technology assessment for automotive applications
Hirofumi Onishi, Alpine Electronics Research of America, USA</p> <p>EU-00058 Co-operative traffic safety system for challenging climate conditions – Finnish results of the WiSafeCar project
Pekka Eloranta, Mobisoft Oy, Finland</p> <p>AP-00159 Deployment of Public Transportation Priority Systems (PTPS)
Masahide Hatakeyama, National Police Agency, Japan</p> | <p>AP-00241 An empirical analysis of V2I communication in vehicular Ad-Hoc network based on IEEE 802.11n
Xiaobo Chen, Tsinghua University, China</p> <p>EU-00244 Safety and traffic efficiency applications for geomessaging over cellular mobile networks
Andreas Festag, NEC Europe Ltd., Germany</p> <p>EU-00339 SMART-I
Yoramilan-Lipovsky, IAT, Israel</p> |
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TS099 – Navigation system & digital maps (3)

Thursday 25 October 2012, 17.45–19.00

Schubert 6 Room

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| <p>AP-00019 Tram route navigation system for smartphone
Yuukou Horita, University of Toyama, Japan</p> <p>AP-00029 Toll and routes guidance system application and future
Hidenori Sugimoto, Highway Toll Systems Co., Ltd., Japan</p> <p>AP-00052 Traffic pattern based pre-routing method for high-speed dynamic route guidance service
Masatoshi Kumagai, Hitachi Ltd., Japan</p> <p>AP-00059 A Totally astar-based multi-path algorithm for the recognition of reasonable route set in vehicle navigation systems
Wei Yin, Tongji University, China</p> | <p>AP-00163 Route-finding system making practical use of real-time information
Kyohei Tamai, Fujitsu Limited, Japan</p> <p>EU-00415 Personal mobile public transportation guidance based on virtual geo-sensors
Wolfgang Narzt, Johannes Kepler University of Linz, Austria</p> <p>EU-00550 SUNRISE project: paving the way to EU GNSS commercialisation by strengthening user networks
Irene Fusco, European Union Road Federation, Belgium</p> |
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TS100 – Traffic & network management – Interurban (4)

Thursday 25 October 2012, 17.45–19.00

Business Suite 1 Room

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| <p>AM-0096 Georgia's regional traffic operations programme
Shahram Malek, ARCADIS, USA</p> <p>AM-00104 Optimising the use of a suicide lane for intelligent vehicles by a centralised traffic controller
Ricardo Reghelin, UTFPR, Brazil</p> <p>AP-00109 New central traffic management system based on common database system
Hironori Osaki, West Nippon Expressway Company Limited, Japan</p> <p>AP-00189 Phased variable speed limit for off-ramp on highway
Hyerim Cho, University of Seoul, Korea</p> | <p>EU-00190 Optimum principle for traffic and transportation networks: Minimum probability of congestion
Boris Kerner, Daimler AG, Germany</p> <p>EU-00569 Better winter road weather information saves money, time, lives and environment
Eetu Pilli-Sihvola, Technical Research Centre – VTT, Finland</p> |
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TS101 – Traffic control – Systems (2)

Thursday 25 October 2012, 17.45–19.00

Business Suite 2 Room

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| <p>AP-00179 The Field Test Report of LRT priority control using infrared beacons
Toru Mabuchi, Solutions Business, Japan</p> | <p>EU-00450 Uniform control targets and balanced strategies for traffic network management
Jaap Vreeswijk, Peek Traffic bv, The Netherlands</p> |
| <p>EU-00259 Concept of a real-time controlled traffic environmental map
Thomas Reiter, Graz University of Technology, Austria</p> | <p>EU-00540 System support for operators in a traffic management control centre
Katrina Chapman, Nicander Limited, United Kingdom</p> |
| <p>EU-00298 Integrating real-time information infrastructure and control systems
Tor K. Moseng, Sintef, Norway</p> | <p>EU-00556 Towards autonomously driving trains on tracks with open access
Oliver Gebauer, University of Salzburg, Austria</p> |
| <p>AP-00323 An example of dynamic public transport priority using SCATS
Steven Shaw, Roads and Maritime Services, Australia</p> | |

TS102 – Decision support techniques (2)

Thursday 25 October 2012, 17.45–19.00

Business Suite 3/4 Room

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| <p>AP-00124 Preliminary analysis of the application of taxi probe vehicles for travel time record in Bangkok
Sorawit Narupiti, Chulalongkorn University, Thailand</p> | <p>EU-00548 Key performance indicators for congestion using GPS data
Jan Holm, Danish Road Directorate, Denmark</p> |
| <p>EU-00461 Weather-related calibration of traffic models for optimised traffic control
Martin Reinthaler, ÖFPZ Arsenal Gesmbh, AIT Austrian Institute of Technology, Austria</p> | <p>EU-00557 EmerT – Supporting traffic parameter estimation from low cost and low resolution uncalibrated web cameras
Louis CalvinTouko Tcheumadjeu, German Aerospace Center – DLR, Germany</p> |
| <p>EU-00518 Evaluation of real time traffic data
Jens Peder Kristensen, KeyResearch, Denmark</p> | <p>EU-00583 PUMAS, a real-time predictor of urban traffic based on floating car data
David Chouvin, Egis, France</p> |

TS103 – Pay-as-you-drive

Friday 26 October 2012, 09.00–10.30

Business Suite 2 Room

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| <p>AM-00033 Hypothecation alternatives for road user charges
Travis Dunn, D'Artagnan Consulting LLP, USA</p> | <p>EU-00163 Dual use applications to electronic fee collection
Alexander Abl, Kapsch TrafficCom AG, Austria</p> |
| <p>EU-00082 Urban cordon or mileage pricing: Choosing the right model
Dietrichs Leihs, Electronics and Telecommunications Research Institute/Kapsch TrafficCom AG, Austria</p> | <p>EU-00703 Transition from fuel taxes to road user charging – experiences and challenges globally
Scott Wilson, Booz & Company, United Kingdom</p> |
| <p>EU-00142 A Field Trial on Smart Mobility
Sven Maerivoet, Transport & Mobility Leuven, Belgium</p> | |

TS104 – Traffic management (2)

Friday 26 October 2012, 11.00–12.30

Stolz 1 Room

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| <p>AP-00026 Construction of passing manoeuvre model on rural highway with consideration of road surface conditions
Azuma Takemoto, CERI for Cold Region, Japan</p> <p>EU-00084 Floating car simulation for evaluation of urban main corridors based on a macroscopic traffic state
Brian Kellogg, Technical University Munich, Germany</p> <p>AP-00089 New development of road traffic survey in Japan: from once every five years to 24/7
Hiroyoshi Hashimoto, NILIM, Ministry of Land, Infrastructure, Transport and Tourism – MLIT, Japan</p> | <p>AM-00124 Multi-level/discipline training – the foundation for effective traffic incident management
Steven Cyra, HNTB Corporation, USA</p> <p>AP-00128 PTIPS – An intelligent transport system delivering real benefits to stakeholders
Ghassan Jarjees, Roads and Maritime Services of NSW, Australia</p> <p>AP-00270 Effectiveness analysis of dynamic lane allocation focusing on dynamic operation of climbing lane
Han-Geom Ko, Ajou University, Korea</p> <p>AP-00355 Trial experiment for the evaluation of the probe car technology utilisation to the road traffic management in Hanoi, Vietnam
Tatsuya Okubo, Hitachi Ltd., Japan</p> |
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TS105 – European Electronic Toll Service (EETS) (2)

Friday 26 October 2012, 11.00–12.30

Stolz 2 Room

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| <p>EU-00043 Introduction into CEN/TC 278 draft technical specification "electronic fee collection – security framework"
Rolf Suter, Rapp Trans AG, Switzerland</p> <p>EU-00177 Practical implementation of EETS
Søren Rasmussen, Sund & Bælt Holding AS, Norway</p> <p>EU-00369 French eco-tax collection system towards EETS
Paolo Guarnieri, Autostrade Tech S.p.A., Italy</p> | <p>EU-00506 Preparing for EETS – Austria on its way towards implementation of successful interoperability solutions
Bernd Datler, ASFINAG, Austria</p> <p>EU-00643 Ticket to ride
Antonio Politano, DBA LAB Spa, Italy</p> <p>EU-00749 Case study of 6 years of toll operation in the Czech Republic and development of connected telematic applications
Karel Feix, Kapsch Telematic Services, Czech Republic</p> |
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TS106 – Multi-modal journey planner – Underpinning algorithms

Friday 26 October 2012, 11.00–12.30

Lehar 1 Room

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| <p>AP-00313 Finding multi-criteria optimal paths in multi-modal public Transportation Networks using the Transit Algorithm
Leonid Antsfeld, NICTA, Australia</p> <p>EU-00427 Semantically enriched multi-modal routing
Thomas Krennwallner, Vienna University of Technology, Austria</p> <p>EU-00573 Transport hubs drive you crazy? ICT applications can reassure people planning a journey, by taking accessibility into account
Sylvain Gaudan, MobiGIS, France</p> | <p>EU-00662 Analysis of multimodal journey planners using a multi-criteria evaluation method
Domokos Esztergár-Kiss, Budapest University of Technology and Transport, Hungary</p> <p>EU-00674 Multimodal real time passenger information of the public transport in Skopje
Natasa Petrovska, JSP SKOPJE, Macedonia</p> <p>EU-00704 Implementation of traffic effect estimations for intermodal dynamic routing services on VIELMOBIL – an ITS-platform for the RheinMain region
Stefan Krampe, TraffiCon, Austria</p> |
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TS107 – Preventive & active safety systems (2)

Friday 26 October 2012, 11.00–12.30

Lehar 2 Room

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| <p>AP-00120 3D-scan radar for automotive application
Shuhei Kobashi, Fujitsu Ten Limited, Japan</p> <p>EU-00228 Variable speed limits in unprotected intersections implementation and evaluation of 12 sites in Sweden
Björnåke Sevefelt, Swedish Transport Administration – STA, Sweden</p> <p>AP-00254 Development of the new road clean-up vehicle with the ITS technology
Eiji Mori, Central Nippon Expressway Company Limited, Japan</p> <p>EU-00285 Registration of road vehicle rescue actions as a basis for traffic safety measures
Torgeir Vaa, Norwegian Public Roads Administration, Norway</p> | <p>AP-00304 The advancement of the electric wave measurement for customer
Hideya Nakatani, West Nippon Expressway Facilities Company Ltd., Japan</p> <p>EU-00463 Communication concept for car comfort systems applied to traffic sign recognition
Roland Oberhammer, Bluetechnix Mechatronische Systeme GmbH, Austria</p> <p>EU-00741 Deployment monitoring of eSafety priority systems
Hans Jürgen Mäurer, DEKRA, Germany</p> |
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TS108 – Autonomous vehicle concepts

Friday 26 October 2012, 11.00–12.30

Lehar 3 Room

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| <p>AP-00051 Autonomous lane change of heavy-duty trucks based on path following control
Toshiyuki Sugimachi, Kobe University, Japan</p> <p>AM-00071 Optimising driverless vehicles at intersections
Ismail Zohdy, Virginia Tech, USA</p> <p>AM-00094 Negative obstacle detection using cooperative systems
Steven Dellenback, Southwest Research Institute, USA</p> <p>AM-00127 Expert views of the major issues associated with autonomous ground vehicles
Steven Underwood, The University of Michigan – Dearborn, USA</p> | <p>AP-00161 A cooperative automatic vehicle guidance system
Dong-Yong Kwak, Electronics and Telecommunications Research Institute – ETRI, Korea</p> <p>EU-00246 Laser scanner fusion system for autonomous driving
Sabine Eggert, Ibeo Automotive Systems GmbH, Germany</p> <p>AP-00264 Global 3D modelling and its evaluation for large-scale highway tunnel using laser range sensor
Liang Xue, The University of Tokyo, Japan</p> |
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TS109 – Eco-driving and eco-routing (2)

Friday 26 October 2012, 11.00–12.30

Lehar 4 Room

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| <p>AP-00003 A study on factors affecting the effective eco driving
Ryosuke Ando, Toyota Transportation Research Institute, Japan</p> <p>AP-00073 Fuel consumption model estimation for evaluating ITS operational strategies
Kyeong-Pyo Kang, The Korea Transport Institute – KOTI, Korea</p> <p>AP-00084 Results from Field Verification Tests of Green Wave Advisory System
Hiroaki Kimura, Toyota Motor Corporation, Japan</p> <p>EU-00101 From 5 to 4, The Dutch mobility game
Sander Buningh, DTV Consultants, The Netherlands</p> | <p>EU-00226 Machine-learning methodology for energy efficient routing
Konstantinos Demestichas, Institute of Communication and Computer Systems – ICCS, Greece</p> <p>AP-00274 An evaluation of the effect on traffic flow by moderate acceleration in terms of CO2 emissions
Shogo Kitahonoki, The University of Tokyo, Japan</p> <p>EU-00334 Applying OpenStreetMap GIS data to the discrete event simulation environment ED for realistic transportation models
Markus Klug, University of Applied Sciences Technikum Wien, Austria</p> |
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TS110 – Electromobility – Infrastructure (2)

Friday 26 October 2012, 11.00–12.30

Schubert 1 Room

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| <p>EU-00085 Experience of AutoLinQ for electric vehicle systems under real user conditions
Martin Boeld, Continental Automotive GmbH, Germany</p> <p>AP-00135 An integrated modelling for smart city: Toward efficient CO₂ management of EV transport using PV system
Yoshiki Yamagata, National Institute for Environmental Studies, Japan</p> <p>EU-00221 FEV-oriented applications and services
Evgenia Adamopoulou, Institute of Communication and Computer Systems - ICCS, Greece</p> | <p>AP-00253 Reducing CO₂ with the new aerodynamic device for the expressway patrol car
Eiji Mori, Central Nippon Expressway Company Limited, Japan</p> <p>EU-00504 Traffic simulation to evaluate electrical consumption for EcoGem solution
Aurelio Díaz de Arcaya, Tecnalía R&D, Spain</p> <p>EU-00626 Simplicity with control
Alexander Maglock, Atos IT Solutions and Services GmbH, Austria</p> |
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TS111 – Impact & benefits assessment (3)

Friday 26 October 2012, 11.00–12.30

Schubert 2 Room

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| <p>EU-00012 Gigaliner Study – technical assessment on traffic and infrastructure on the Swiss road network
Therese Lüthi, Rapp Trans AG, Switzerland</p> <p>EU-00020 Modern Informational technologies in the sphere of road traffic safety in the Republic of Tatarstan
Rifkat Minnikhanov, Ministry of Interior, Russian Federation</p> <p>AM-00114 Justifying funding for ITS deployments
Prasoon Sinha, ARCADIS US Inc., USA</p> <p>EU-00137 Development of ITS in Republic of Croatia
Sadko Mandzuka, Faculty of Traffic Science, Croatia</p> | <p>EU-00519 The Finnish ITS market size and structure – A microeconomic approach
Zulkarnain Zulkarnain, Technical Research Centre – VTT, Finland</p> <p>EU-00606 Traffic in Greater Oslo – A maturity assessment
Helge Jensen, City of Oslo, Norway</p> |
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TS112 – Incident & congestion management (4)

Friday 26 October 2012, 11.00–12.30

Schubert 3 Room

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| <p>AM-00040 State-of-the-art of ITS to address non-signalised rural intersection safety in Minnesota
Ray Starr, Minnesota DOT, USA</p> <p>AM-00101 Smarter networks for intelligent transportation systems
Dominique Verhulst, Alcatel-Lucent, Belgium</p> <p>EU-00165 SHARE – Integration of environmental interest and road user demands in the optimisation of signal control
Thomas Otto, GEVAS software Austria, Austria</p> <p>AP-00178 Comparative application of fuzzy logic control algorithm for ramp metering
Tien-Pen Hsu, National Taiwan University, Chinese Taipei</p> | <p>AP-00261 A study on congestion threshold using volume-speed graph(Break Point) analysis in urban freeway
Jun-Cheol Lee, ITS Korea, Korea</p> <p>AP-00300 Learning to detect incidents from data based on tree augmented naive Bayesian classifiers
Dawei Li, Southeast University, China</p> <p>EU-00349 iRoute – the way to a Bavarian wide system for incident detection und journey time measurement
Gerhard Listl, Gevas Humberg & Partner GmbH, Germany</p> |
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TS113 – Driver assistance & support systems: Sensors (2)

Friday 26 October 2012, 11.00–12.30

Schubert 4 Room

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| <p>AP-00036 A novel design for vehicle rollover warning system based advanced image processing
Chun Hsiung Chen, Automotive Research & Testing Center, Chinese Taipei</p> | <p>AP-00200 Development of a backup collision intervention system
Yoji Seto, Nissan Motor Corporation, Japan</p> |
| <p>AP-00055 Image recognition application systems utilising surround view cameras
Tokihiko Akita, AISIN SEIKI CO., Japan</p> | <p>AP-00262 Lane estimation based on lane marking recognition
Tatsunori Yasuda, Hrosaki University, Japan</p> |
| <p>AP-00106 Multiple look-ahead distance scheme for lateral control of vision-based vehicles
Seito Kou, Meijo University, Japan</p> | <p>EU-00409 Omnidirectional lens and 2D-MEMS scanning mirror for a low cost automotive laser range sensor
Ulrich Hofmann, Fraunhofer ISIT, Germany</p> |

TS114 – V-to-I applications – Simulation for communication and cooperative application

Friday 26 October 2012, 11.00–12.30

Schubert 5 Room

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| <p>AP-00025 V2I communication system using in-vehicle obstacle detection sensors
Yusuke Takatory, Tokyo University of Science, Japan</p> | <p>EU-00237 Car2X – From research to production development
Hans-Werner Schaal, Vector Informatik GmbH, Germany</p> |
| <p>AP-00094 Results from Simulation Evaluation of Green Wave Advisory System
Yasunari Iwata, Toyota Motor Corporation, Japan</p> | <p>AP-00293 A study on influence of traffic flow using inter-vehicle and road-vehicle communications at intersections
Yusuke Shigeiwa, Tokyo University of Science, Japan</p> |
| <p>AP-00229 A study of the effect evaluation of the adaptive driving beam using a Survey Simulator to Evaluate Safety Systems (ASSESS)
Nobuhisa Tanaka, National Traffic Safety and Environment Laboratory, Japan</p> | <p>EU-00729 Preparing simulative evaluation of the GLOSA application
Daniel Krajzewicz, German Aerospace Center - DLR, Germany</p> |

TS115 – Navigation system & digital maps (4)

Friday 26 October 2012, 11.00–12.30

Schubert 6 Room

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| <p>AP-00017 Resolution scalable real-time update type hazard map
Yuukou Horita, University of Toyama, Japan</p> | <p>AP-00269 Development of a combination of decision tree model and neural network model for changing routes considering driving conditions
Han-Geom Ko, Ajou University, Korea</p> |
| <p>AP-00146 Intelligent rat-runner: impact of car navigation system on safety of residential roads
Aya Kojima, Saitama University, Japan</p> | <p>AP-00291 Bus stop navigation system considering bus status and user's walking speed
Takaharu Kosuge, Meijo University, Japan</p> |
| | <p>AP-00314 Modelling travellers' perception of travel time for dynamic route choice behaviour analysis
Dawei Li, Nagoya University, Japan</p> |
| | <p>EU-00588 GEOANAS: An information hub and a reusable service
Pierluigi De Marinis, ANAS S.p.A, Italy</p> |

TS116 – Traffic & network management – Interurban (5)

Friday 26 October 2012, 11.00–12.30

Business Suite 1 Room

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| <p>EU-00015 3x benefit by local competence – direct use of Taxi-FCD to generate road traffic messages
Matthias Koerner, TU Dresden, Germany</p> <p>EU-00071 GIP.at – The project to create a graph integration platform for Austria
Irmgard Mandl-Mair, Office of the Regional Government of Carinthia, Austria</p> <p>EU-00111 Evaluation of the scenario coordination module, a traffic network management control system
Daniëlle Schreurs, Trinite Automation, The Netherlands</p> | <p>EU-00278 Integrated approach to keep the traffic going during motorway reconstruction A12 Lunetten – Veenendaal
Erik Verschoor, ARCADIS Nederland BV, The Netherlands</p> <p>EU-00631 Measuring vehicle driving times using bluetooth
Lars Tørholm, BLIP Systems, Denmark</p> |
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TS117 – Road user charging (2)

Friday 26 October 2012, 11.00–12.30

Business Suite 2 Room

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| <p>AM-00028 Minnesota road fee test project– travel time analysis using anonymous smart phone position as probe data
Robert Zimmer, Battelle, USA</p> <p>AP-00165 Payment of uncollected tolls at CVSs
Jun Hiraki, West Nippon Expressway Company Limited, Japan</p> <p>AP-00180 Toward realisation of a new cashless payment “EMV payment in vehicle” using ITS Spot
Takeyori Maeda, NILIM, Ministry of Land, Infrastructure, Transport and Tourism – MLIT, Japan</p> | <p>EU-00182 GNSS based tolling – possibilities, challenges and opportunities
Runar Sorasen, Q-Free ASA, Norway</p> <p>EU-00353 Standardising charging performance metrics
Mark Wedlock, Rapp Trans (UK) Ltd., United Kingdom</p> <p>EU-00726 viaTOLL: Electronic toll collection in Poland – Experience and outlook
Magdalena Jaworska, General Directorate for National Roads and Motorways, Poland</p> |
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TS118 – Decision support techniques (3)

Friday 26 October 2012, 11.00–12.30

Business Suite 3/4 Room

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| <p>EU-00067 Daily commuter companion
Peter Preuss, Nokia, Germany</p> <p>EU-00249 Application “VINCI Autoroutes” for smartphones. The co-pilotage application on the motorways.
Frédéric Ambleton, ASF, France</p> | <p>AP-00276 Development of the traffic accident occurrence forecast logic for expressway with self-organising map
Takenori Murano, Toshiba Corporation, Japan</p> <p>EU-00360 ANNAtool – A social network for the transport business
Rudolf Ball, Symvaro GmbH, Austria</p> |
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Interactive Sessions

■ Scientific Paper

IS01 – Optimisation techniques

Tuesday 23 October 2012, 14.00–15.30

Strauss 1 Room

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| <p>AM-00009 Mobile weather data collection solutions
Antony Coventry, Vaisala Inc., USA</p> | <p>safety information via smart delineator using driving simulator evaluation
Han-Geom Ko, Cheil Engineering, Korea</p> |
| <p>AM-00057 Preliminary operational findings for the Minnesota road fee test project
Bennett Pierce, Battelle, USA</p> | <p>AP-00284 An empirical study of vacancy rate of taxi with service inventory and online shift arrangement system
Jhih-Gang Luo, Feng-Chia University, Chinese Taipei</p> |
| <p>AM-00058 Implementing mileage based user fees: Initial evaluation findings from the Minnesota road fee test
Ray A. Starr, Minnesota DOT, USA</p> | <p>EU-00426 Android road quality
Lars Forsslöf, Etex, Sweden</p> |
| <p>EU-00100 Road weather related travel time information
Karl E. Schedler, micKS MSR GmbH, Germany</p> | <p>EU-00488 Differentiation of traffic data quality for dynamic traffic management and traffic information
Edoardo Felici, National Data Warehouse for Traffic Information – NDW, The Netherlands</p> |
| <p>AP-00108 Development of pedestrian route guide system based on road name address data
Kyung Hoon Kang, ZAOLSOFT, Korea</p> | <p>EU-00627 Approaches to practical and realizable open mobility information services
Dave Marples, Technolution B.V., United Kingdom</p> |
| <p>AM-00112 Deriving operational origin-destination matrices from large scale mobile phone data
Jingtao Ma, Mygistics Inc., USA</p> | <p>EU-00630 EmerT – A web based decision support tool for traffic management
Laura Bieker, German Aerospace Center – DLR, Germany</p> |
| <p>EU-00120 Assessment of strategic and financial viability for an intelligent mobility system
Cristina d'Alessandro, Fondazione FORMIT, Italy</p> | |
| <p>EU-00129 Dynamic model of split passenger and ferry port road network connection
Zdenko Lanovic, Elipsa – S.Z. d.o.o., Croatia</p> | |
| <p>AP-00206 Study on multi-sensor data fusion system for highway traffic flow detection based on WSN
Li Zhao, ITSC of RIOH, China</p> | |
| <p>EU-00208 Specifying and organising EETS Security – A proposal
Ulrik Janusson, Sweco, Sweden</p> | |
| <p>AP-00278 Analysis on the provision effect of dynamic</p> | |

IS02 – Intelligent infrastructure

Wednesday 24 October 2012, 9.00–10.30

Strauss 1 Room

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| <p>EU-00052 Wireless traffic sensors for mobility improvement in the city of Lyon
Alexis Bacelar, CERTU, France</p> | <p>EU-00257 Non Stop: Automatic selection of vehicles for inspection
Terje Moen, SINTEF, NORWAY</p> |
| <p>AM-00065 LA Express Park™ – Curbing downtown congestion through intelligent parking management
Amir Sedadi, City of Los Angeles, USA</p> | <p>AP-00290 Study on establishing exclusive ETC tollgates for improving the utility and accessibility of expressway
Eun Joo Hong, ITS Korea, Korea</p> |
| <p>AM-00069 Geospatial assessment of terrestrial communication infrastructure requirements during the process of traffic signal system upgrade
Milos Mladenovic, Virginia Tech, USA</p> | <p>AP-00309 The evaluation of automatic incident detection system applied of the Gaussian mixture model and vehicle tracking
Joonyoung Min, Sangji Youngseo College, Korea</p> |
| <p>AP-00134 Technical approaches to realise the booth-less tollgate system
Yosuke Takeuchi, Mitsubishi Heavy Industries, Ltd., Japan</p> | <p>EU-00317 Estimation of the warning time due to an accident in the ALLEGRO traffic management and information centre
Patrick Palmier, CETE Nord-Picardie, France</p> |
| <p>EU-00138 Intelligent ramp metering
Sadko Mandzuka, Faculty of Traffic Science, Croatia</p> | <p>EU-00424 Salt spreaders: From heavy machines to intelligent systems
Fabrizio Dominici, Microsoft Innovation Center, Italy</p> |
| <p>EU-00194 Urban tolling
Pierrick Le Puil, CS Communication & Systèmes, France</p> | <p>EU-00428 The Easy-OBU Project
Hannes Stratil, EFKON AG, Austria</p> |
| <p>AP-00195 Offset reference point configuration methods in traffic signal controller
Jisun Lee, The Korea Transport Institute – KOTI, Korea</p> | <p>EU-00645 The costs of urban road user charging
Morten Welde, Norwegian Public Roads Administration, Norway</p> |
| <p>AP-00201 Evaluation of actuated signal controllers for right-turn by I2V cooperation
Osamu Hattori, Sumitomo Electric Industries Ltd., Japan</p> | <p>EU-00740 Ontology development in ITS domain
Pero Škorput, Faculty of Transport and Traffic Sciences, Croatia</p> |

IS03 – Seamless Multimodal services

Wednesday 24 October 2012, 14.00-15.30

Strauss 1 Room

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| <p>AM-00073 Using a web-service to monitor transit on-time performance
Fabian Cevallos, Florida International University, USA</p> | <p>EU-00646 Brivel – A framework for mobility information platforms
Michael Kieslinger, Fluidtime Data Services GmbH, Austria</p> |
| <p>EU-00151 Caruso: ITS solutions for individual car-sharing offers
Christian Steger-Vonmetz, Talent Dienstleistung und Handel e. Gen., Austria</p> | <p>EU-00657 Mobility platform for Rhineland-Palatinate
Joachim Wahle, TraffGo Road GmbH, Germany</p> |
| <p>AP-00153 Activities to enhance town mobility of city centre zone
Takayuki Hirasawa, The University of Tokyo, Japan</p> | <p>EU-00678 A world class real time information service for public transport users in the West Midlands UK
Debo Shopade, CENTRO, United Kingdom</p> |
| <p>EU-00172 Towards a web of transport information
Patrick Gendre, CETE Mediterranee, France</p> | |
| <p>AP-00295 Concept and feature of "Eco-Ride" – Unmanned energy-saving public transport system
Takayuki Hirasawa, The University of Tokyo, Japan</p> | |

IS04 – Integrated safety and security

Thursday 25 October 2012, 9.00–10.30

Strauss 1 Room

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| <p>AM-00015 Linking crash occurrence to real-time weather conditions and AVI traffic data: ensemble data-mining approach
Mohamed Abdel-Aty, University of Central Florida, USA</p> | <p>AP-00245 Cooperative intelligent transport systems to improve safety at level crossing
Jugdutt (Jack) Singh, La Trobe University, Australia</p> |
| <p>EU-00031 Testing of active safety in road vehicles – A driving force for research and innovation
Jan Jacobson, SP Technical Research Institute of Sweden, Sweden</p> | <p>AP-00248 Using drive recorder the internet car management service
Hajime Hagimori, NEC Corporation, Japan</p> |
| <p>AP-00032 Implementation of a bus information terminal through the application of head-up display technologies
Jinyung Heo, Korea Institute of Construction Technology, Korea</p> | <p>AP-00279 Development of the device to prevent wrong-way driving
Yuichi Mizushima, Nexco Engineering Niigata, Japan</p> |
| <p>EU-00063 The application of 3D visual interactive simulation technology to highway & tunnel emergency training & management
Philippe Marsaud, BMIA, France</p> | <p>AP-00287 Analysis of interrelationship between traffic conditions and driver's stress for introduction of effective ITS measures
Hiroshi Warita, Metropolitan Expressway Company Limited, Japan</p> |
| <p>AP-00071 Estimation of driver's attentive state to visual objects outside the vehicle when driver is in low arousal level by using lambda response of eye-fixation-related potentials
Ken'ichi Machii, Keio University, Japan</p> | <p>EU-00296 SecMan – Security risk management processes for road infrastructures
Harald Kammerer, ILF Consulting Engineers, Austria</p> |
| <p>AP-00103 A study on designing a comprehensive safety support system
Fumiya Okajima, Shibaura-Institute of Technology, Japan</p> | <p>EU-00462 Application platform for intelligent mobility – Test site architecture and vehicle2X communication setup
Tobias Frankiewicz, German Aerospace Center – DLR, Germany</p> |
| <p>EU-00127 Traffic model for disability groups based on telematic investigation
Birgit Nadler, Nast consulting ZT GmbH, Austria</p> | <p>EU-00748 Implementation of a co-driver for continuous support
Mauro Da Lio, University of Trento, Italy</p> |
| <p>AP-00199 A multi-information fusion based highway vehicular collision warning system
Mao Ning Wang, Sichuan University, China</p> | |

IS05 – Cooperative mobility

Thursday 25 October 2012, 14.00–15.30

Strauss 1 Room

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| <p>AP-00038 Preceding vehicle recognition for lead vehicle of fully automated platooning trucks based on multi-sensor fusion
Naoki Suganuma, Kanazawa University, Japan</p> | <p>AP-00260 Performance evaluation of vehicular group communications over vehicular ad hoc networks
Hsu Chih-Wei, ITRI, Chinese Taipei</p> |
| <p>EU-00065 Integration of different simulation tools for the development of next generation Automotive Safety Systems
Martijn van Noort, Netherlands Organisation for Applied Scientific Research – TNO, The Netherlands</p> | <p>EU-00288 Intelligent mobility management based on cooperative systems. OASIS project
Mercedes Badillo, INDRA Sistemas, Spain</p> |
| <p>AP-00070 A lateral control algorithm for vision-based automated vehicles using a reference line beside them
Kazuki Sakamoto, Meijo University, Japan</p> | <p>EU-00325 ITS Factory – Proving and innovation arena for ITS solutions
Aki Lumihao, Ramboll Finland Oy, Finland</p> |
| <p>EU-00077 How to improve GNSS positioning quality of service for demanding ITS in city environments by using 3D digital maps
François Peyret, French institute of science and technology for transport, development and networks – IFSTTAR, France</p> | <p>AP-00358 A study of relationship between RSSI and Decision Threshold in OFDM Communication
Dae Kyo Shin, Korea Electronics Technology Institute – KETI, Korea</p> |
| <p>AM-00084 The United States Military's interest in ITS technology
Sara Blackmer, Pratt & Miller Engineering, USA</p> | <p>EU-00367 Reducing CO2 emissions by optimizing traffic through synergy in ITS
Robin Mastenbroek, Logica, The Netherlands</p> |
| <p>EU-00106 Influence of antenna performance on retrofit C2XC devices
Frank Hofmann, Robert Bosch GmbH, Germany</p> | <p>EU-00574 The FRAME forum – Supporting the FRAME Architecture
Richard Bossom, Richard Bossom ITS Consulting Limited, United Kingdom</p> |
| <p>AP-00169 Conceptual structure of a novel car-following model upon gravitational field concept
Tien-Pen Hsu, National Taiwan University, Chinese Taipei</p> | <p>EU-00686 Applying the FESTA methodology to cooperative system FOTs
Oliver Sawade, Fraunhofer FOKUS, Germany</p> |
| <p>AP-00250 Dual channel access mechanism in WAVE system
Han-Gyun Jung, KETI, Korea</p> | <p>EU-00690 OVERSEE – Investigation of requirements and analysis of solutions for an in-vehicle open and secure platform
Hakan Cankaya, Escrypt GmbH, Germany</p> |

IS06 – Environmental aspects

Friday 26 October 2012, 9.00–10.30

Strauss 1 Room

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| <p>EU-00094 The co-operative traffic light control approach of the eCoMove system
Jonas Lüßmann, Technical University Munich, Germany</p> | <p>EU-00378 Innovative motorway management in eCoMove project
Franck Petit, COFIROUTE, France</p> |
| <p>EU-00184 Driver reactions on ecological driver feedback via different HMI modalities
Maria Staubach, German Aerospace Center – DLR, Germany</p> | <p>EU-00414 eCoMove communication platform
Ola Martin Lykkja, Q-Free ASA, Norway</p> |
| <p>EU-00220 CARBOTRAF – A decision support system for reducing CO₂ and black carbon emissions by adaptive traffic management
Wolfgang Ponweiser, AIT Austrian Institute of Technology, Austria</p> | <p>EU-00539 iCar Support – Supporting the iMobility Forum
Lina Konstantinopoulou, ERTICO – ITS EUROPE</p> |
| <p>EU-00217 Energy-driven routing and navigation for advanced driver assistance systems
Evgenia Adamopoulou, Institute of Communication and Computer Systems – ICCS, Greece</p> | <p>EU-00694 Field operational test of an adaptive ITS driver behaviour system to reduce vehicle emissions
Thijs Versteegh, Netherlands Organisation for Applied Scientific Research – TNO, The Netherlands</p> |
| <p>AP-00331 Near-future EV society and its lifestyle prospects – A clue to changing car business
Takafumi Hitotsumatsu, Denso Corporation, Japan</p> | <p>EU-00746 Qualitative and quantitative driver evaluation: A comparison
Bart Berghmans, Key Driving Competences, Belgium</p> |

Bringing telematics services to commercial deployment, perspectives from car manufacturers and telecom operators

Tuesday 23 October 2012, 11.00–12.30

Strauss 1 Room

Being connected while on the move has become a central expectation of consumers. This has many facets; to some extent, this trend is driven by the overall shift in consumer behaviour: The use of apps and connected mobile devices has become a part of everyday life, and the expectation that cellular networks provide the required connectivity comes with it. In addition, for safety-related applications the complementing role of cellular networks is becoming ever-increasingly important, especially as budget constraints make it difficult to argue for dedicated infrastructure. Ongoing discussions on a pan-European eCall system add to the demand for cellular connectivity in vehicles. All in all, we are no longer discussing whether cars will be connected in the future – the question is more how can we do this in a flexible, future-proof and cost-efficient manner? Here, there is naturally a technological dimension; the exciting new capabilities of LTE networks being just one example. This technology must be used in an optimal manner in order to deliver a superior service experience – simply just using the network to move the bits around is often not good enough. But the business case for connected services also has to be taken into account. Doing things smarter and more efficiently is a necessity for enabling innovative services. This session will gather specialists from the field of car telematics and machine to machine telecommunications, who will share their experience in this space and their views on the key enablers to support the deployment of more connected and smarter cars as well as the challenges they face.

Organiser: Orange Business Services

Urban mobility day at the ITS World Congress 2012

Wednesday 24 October 2012, 09.00–10.30 and 16.00–17.30

Strauss 3 Room

On Wednesday 24 October a whole day dedicated to Urban Mobility will take place. This will be the place to be for anybody interested in what's what – and who's who – in Urban Mobility.

The day will start with a session introducing the Guidelines for the deployment of key ITS applications in urban areas, developed by the Commission's Expert Group on "Intelligent Transport systems for Urban Areas". The Expert Group has developed specific guidance for the deployment of urban areas, in particular for the provision and organisation of multimodal information, of traffic management & urban logistics and of smart ticketing. The session will provide an opportunity for the ITS industry and city representatives to discuss and provide feedback.

This session will be followed by two Executive sessions as part of the official Congress programme, focussing on "Future Trends in City Mobility" & "Making multimodality the pillar of modern life".

In between the two Executive sessions a tour will be organised through the exhibition, visiting stands specifically showing ITS demonstrations for Urban Mobility.

In a final session, the presentations and the input received throughout the day will be compiled and summarised and the next steps regarding ITS for Urban Mobility, the activities ERTICO is planning and how deployment of the presented applications and services can be achieved will be presented and discussed.

In the spirit of bringing together the public authorities and industry, the day will be rounded off by a speed networking session. This will provide a unique opportunity to further strengthen your business relationships as well as to establish new ones.

Organiser: ERTICO – ITS Europe

EU-US cooperation: Results of the working groups

Wednesday 24 October 2012, 16.00–17.30

Strauss 2 Room

This session will give an overview of the main results from the various working groups established under the EU-US Cooperation Agreement on Cooperative Systems. Each working group (i.e. Safety Applications, Energy Efficiency Applications, Standardisation Harmonisation, Assessment Tools, Driver Distraction/HMI) will give a short presentation on its progress, main findings and international agreements followed by an interactive panel discussion. The conclusions of the session will help to identify how to make best use of the work done, agree on further needs for cooperation and for potential additional topics to be discussed internationally.

Organiser: European Commission

STAKEHOLDERS WORKSHOPS

EU international cooperation summit

Thursday 25 October 2012, 09.00–10.30 and 16.00–17.30

Strauss 2 Room

The International Summit – organised by ERTICO/ITS Europe and the European Commission under the patronage of iMobility Forum's Working Group on International Cooperation – will gather globally renowned experts from the Americas, Asia and Europe to discuss recent developments in Smart Mobility applications and their deployment. The Summit is composed of two sessions featuring a morning session focusing on international cooperation opportunities on Cooperative Systems based on V2X communications, their role in urban mobility and eCall. The value of probe data in assessing the impact of mobility applications and the role of transport corridors for sustainable transport systems will be addressed.

The afternoon session will discuss tools for Smart Mobility applications' deployment, in particular field operational tests and pilots, but also global harmonisation of ITS standards as recently successfully performed in the framework of the EU-US Joint Arrangement on ICT for Transport research.

The Summit will pave the way to further international collaboration and provide valuable input to the roadmap for Smart Mobility applications' roll-out worldwide.

Smart mobility applications

Thursday 25 October 2012, 09.00–10.30

Organiser: European Commission and ERTICO – ITS Europe

Moderator: Juhani Jaaskelainen, European Commission, DG CONNECT

Panellists:

Wolfgang Hoefs, EC DG CONNECT; Patrick Mercier Handisyde, EC DG RTD; Prof. Wang, Ministry of Transport, China; Marcelo Cardinale Branco, Secretary for Transport, City of São Paulo, Brazil; Aysu Müge Yeşil, Head of Strategy Development Department, Ministry of Transport and Communication, Turkey; Konstantin Tikhonov, Ministry of Transport, Russia (invited); Hermann Meyer, CEO, ERTICO – ITS Europe; Representative from US DOT, USA; Representative from MLIT, Japan; Representative from Ministry of Transport, Canada

Tools for deployment

Thursday 25 October 2012, 16.00–17.30

Organiser: European Commission and ERTICO – ITS Europe

Moderator: Hermann Meyer, CEO, ERTICO – ITS Europe

Panellists:

Alessandro Santiago dos Santos, Manager Automation, Governance and Digital Mobility Sector, IPT, Brazil; Muhammed Alyürük, R&D and IT Manager, ISBAK, Turkey; Alexander Gurko, CEO, NIS GLONASS, Russia; Eva Boethius; Representative from US DoT, USA; Representative from MLIT, Japan; Representative of MOST, China

Toward fully automated driving: enablers, roadblocks and deployment scenarios

Thursday 25 October 2012, 16.00–17.30

Strauss 3 Room

Autonomous driving has recently been put under the spotlight with the entrance of disruptive players coming from outside the automotive sector in this area. Yet, beyond the buzz, automated driving can bring major benefits to the both society and individuals in terms of road safety, people wellness and autonomy, urban space preservation, etc. This prospect drives significant R&D investments in the industry, with strong support from public institutions. During this workshop, key stakeholders in this area will share their views on the key technological and business enablers, the remaining roadblocks and the deployment scenarios that will bring automated driving to the market.

Organiser: Orange and Michelin

ITS standardisation for harmonised and effective deployment

Friday 26 October 2012, 09.00–10.30

Strauss 2 Room

Recent developments in deployment of ITS systems and services have shown the need for standardisation and have proven benefits in shortening time to market, reducing development costs and strengthening interoperability. ITS is no exception when it comes to the complexity of ensuring the development and implementation of relevant standards particularly given the diversity of stakeholders. Today's challenge is to coordinate activities amongst ITS stakeholders in order to promote use of existing standards, to identify and to fill gaps, and to support global harmonisation when necessary and possible. This workshop will bring together ITS standardisation experts representing Standard Development Organisations (SDO) (e.g. ETSI, CEN, ISO, ITU) and stakeholder organisations developing ad-hoc standards (e.g. TISA, Car2Car Communication Consortium, ADASIS Forum) to discuss open issues and to explore future cooperation opportunities to achieve the harmonised and effective deployment of ITS.

Organiser: ERTICO – ITS Europe

Moderator: Vincent Blervaque, ERTICO – ITS Europe

Panellists: Knut Evensen, Q-Free, Norway; Marco Annoni, Telecom Italia, Italy; Russ Shield, YGOMI, USA; Thomas Kusche, WDR, Germany; Alexander Bracht, Daimler, Germany; Markus Strassberger, BMW, Germany; Emilio Davila Gonzalez, EC DG CONNECT

ITS-EduNet courses

Saturday 20 October 2012, 12.00–17.00 – Sunday 21 October 2012, 09.00–14.30

ITS-EduNet, an international network focusing on training and education in ITS in Europe, will hold several courses dealing with a range of current issues in the field, including technological and deployment issues, and problems concerning safety, sustainability, and efficiency, as well as issues in energy and e-mobility. These two-day courses are aimed at practitioners, academics, local authority officers, decision makers, and industry leaders, and are also open to a limited number of students. All course material will be provided in electronic format. Lunches will be provided on both days, and there is an optional site visit to the ASFINAG Traffic Control Centre on Sunday afternoon. An optional local social programme includes a trip to a concert or opera on Saturday evening, with dinner afterwards. The courses are offered in parallel.

Course 1: Inter-Urban Traffic Management, Martin Fellendorf, Graz University of Technology, Austria

This course will provide an introduction to inter-urban traffic management, and will then focus in more detail on data sources and data collection, applied traffic flow theory, automatic incident detection, variable message signs for information and control, ramp metering and managed lanes, truck management at motorway parking facilities, inter-urban road user charging, case studies in Austria and Germany, and an evaluation of motorway management applications including simulation and field trials. The course will use lectures, demonstrations, and problem solving sessions.

Course 2: Urban Traffic Management, Nick Hounsell, University of Southampton, United Kingdom

This course will give an overview of urban traffic management policy, and will then discuss UTM data sources, data collection and processing, traffic signal control strategies and public transport priority, real-time travel information, Variable Message Signing, environmental issues, urban access control, road user charging, safety, parking management, speed management. There will be an evaluation of UTM applications, including simulation and field trials, and the course will be rounded off with a look into the future of urban traffic management.

The course will be based around lectures, presentations, interactive demonstrations, case studies (including Southampton, London, and Munich), and problem solving sessions.

Course 3: From Data to Information, Dietrich Leih, University of Applied Sciences Technikum Wien and Kapsch TrafficCom, Austria

The course will address technological and deployment issues including best practices, lessons learned, dos and don'ts. Problems concerning safety, sustainability and efficiency will be treated as well as energy issues and e-mobility. The content reaches from traffic data generation including sensors and probe cars to traffic modelling and simulation, usage of 3rd party traffic data, planning of common databases for transport data, user group needs and user profiles including the topic of ageing, niche market considerations, etc. The course will consist of presentations and speeches, group work, and case studies.

Course 4: Measuring the Benefits of ITS, Marijan Žura, University of Ljubljana, Faculty of Civil and Geodetic Engineering, TTI, Slovenia

This course will concentrate on different areas of Intelligent Transport Systems and Services (ITS) – measuring benefits of ITS for a more concurrent, green and safety transport sector. The course will address technological and deployment issues including best practices, lessons learned, methods and tools for measuring effects of ITS in the area of road traffic management, payment systems, public transport, traffic & travel information, freight transport and security & emergency. The course will be taught through lectures and presentations on case studies by different speakers.

Course 5: Cooperative Systems, Fritz Busch, Technische Universität München, Germany

Cooperative Systems, i.e. transport systems where vehicles communicate with other vehicles or with the traffic control infrastructure, are a "hot" topic of current research and development in ITS. The market introduction of first applications has started, and field tests across the world are exploring technical feasibility and benefits of advanced solutions. The course will present the current status, address questions of deployment and organisation and include:

- Basic principles (Information transfer, communication, system architectures)
- Worldwide overview (Europe, USA, Asia)
- Functions and application fields (motorway, urban, public transport)
- Deployment (effects, operation, standardisation, policies)

The course will be taught through lectures, presentations, and case studies, and problem solving sessions.

Price: Regular: Early bird (registration before 30 June 2012) €360 (incl. VAT)
 Regular: Registration after 1 July 2012: €400 (incl. VAT)
 Student, or employee of ITS-EduNet member institution: €200 (incl. VAT)
 Student of an ITS-EduNet member institution: €100 (incl. VAT)



Venue: University of Applied Sciences Technikum Wien

Information: For more information or register, please go to www.its-edunet.org

ANCILLARY EVENTS

How will next-generation Internet transform urban mobility?

Sunday 21 October 2012

Instant Mobility is a 2-year research project in the EU Future Internet Public-Private Partnership programme (FI-PPP) that is exploring the potential of Future Internet technologies to improve the mobility of people and goods, and the operation of transport networks and systems.

The *Instant Mobility* team has developed three scenarios that exploit Future Internet-based technologies to deliver innovative services for

- Personalised multi-modal travel
- Smart city logistics
- Virtualised traffic and transport infrastructure

This workshop will present the project's preliminary results including definition of the required Future Internet enablers; business models for Future Internet-enabled services; conclusions from user acceptance studies; requirements and recommendations for standardisation, security and privacy.

The project team will also use the opportunity of this interactive workshop to gather feedback and expressions of interest from cities and other stakeholders as input for planning future implementations of Instant Mobility services at a number of candidate pilot "Smart Cities", during the second phase of the FI PPP programme.

Finally this workshop just before the ITS World Congress will be the opportunity to preview the Instant Mobility conceptual prototype that will be on display during the Congress exhibition.

Do not miss this occasion to hear about our work, share your thoughts and ideas with the project team and learn how you, your business and your city could benefit from the latest developments on Future Internet applied for intelligent transport and mobility.

Venue: NH Danube City, Wagramer Strasse 21, 1220 Vienna

Information: Ms Julie Castermans, ERTICO – ITS Europe
Tel: +32 2 400 07 26
E-mail : j.castermans@mail.ertico.com
www.instant-mobility.org



FUTURE
INTERNET
PPP

www.fi-ppp.eu



FOT-Net Fifth international workshop

Sunday 21 October 2012, 08.00–16.00

FOT-Net has been established by the European Commission to network Field Operational Tests (FOTs) organisers in one strategic networking platform in order to address common issues related to the practical organisation, set-up and follow-up of FOTs results. There is a need for the different regions (Europe, Asia-Pacific and North America) to cooperate on common FOTs issues, such as data handling and sharing, methods and deployment. With successful events organised at the ITS Congresses in New York, Stockholm, Busan, and Orlando, FOT-Net has established an international network of FOT organisers, aiming to tackle common working issues and foster cross-region cooperation.

In this edition of the FOT-Net workshop, round tables discussions will target issues related to Data Analysis, Impact Assessment & Scaling up, Data Sharing & Cooperative Systems and Naturalistic Driving Studies. The workshop will contribute to the exchange of ideas of the FOT-Net Working Groups which have been set up to tackle specific sets of issues in order to further enhance and revise the FESTA methodology for FOTs.

The preliminary agenda and registration link will soon be available. The workshop is free of charge.

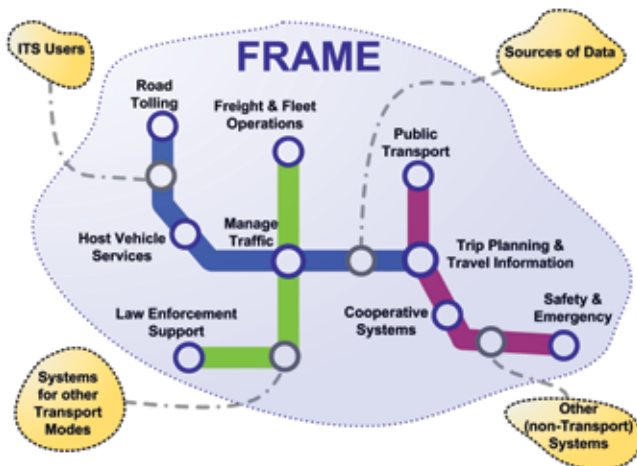
Venue: Courtyard by Marriott Wien Messe, Trabrennstrasse 4, Vienna, Austria

Information: Ms Irina Silva, Project Manager
ERTICO – ITS Europe
Tel: +32 2 400 07 30
E-mail: info@fot-net.eu



Workshop on planning and integrating ITS using the European ITS framework (FRAME) architecture

Sunday 21 October 2012, 12.00–16.00



The FRAME Architecture encompasses the nine main application and service areas of road-based ITS, and it also contains links to other transport modes for when multi-modal services are required. It has been designed to enable users to select the sub-set of applications to model what they have and/or enables the services they want to be delivered. First published in 2000, it has been used by several EU Member States, regions, cities and projects to assist their deployment of ITS.

This workshop will describe the benefits of using the FRAME Architecture and back this up with examples. It will comprise the following three parts:

Part 1: The Business Case – the advantages of using the FRAME Architecture.

Part 2: Examples – of the use of the FRAME Architecture from around the EU, including for Cooperative Systems.

Part 3: The Technical Case – how the FRAME Architecture is used as part of a systems engineering approach to the deployment of ITS. The FRAME development tools will be demonstrated, and an explanation will also be given of the relationship with other ITS architectures such as ARKTRANS and the European ITS Communication Architecture.

The workshop will be given by members of the FRAME Forum and the team that maintains and supports the FRAME Architecture.

Venue: Messe Wien

Information: Please visit www.frame-online.net for more information and contact info@frame-online.net for registration and further details.



SciBarCamp

Sunday 21 October 2012, 09.00–17.00

On Sunday 21 October we will organise a "BarCamp" for young scientists and Web 2.0 experts with one focus on ITS. BarCamps are "non-conferences" without conference fees, ready-made agendas or nominated speakers. The success of a BarCamp depends on interactive participants by presenting projects and discussing the presentations. The schedule will be decided at the beginning of the BarCamp.

There are eight BarCamp rules:

- 1st Rule: Talk about BarCamp in advance.
- 2nd Rule: Write blog about BarCamp.
- 3rd Rule: If you want to present ideas or projects, you must write your topic and name in a presentation slot.
- 4th Rule: Only three word intros.
- 5th Rule: As many presentations at a time as facilities allow for.
- 6th Rule: No pre-scheduled presentations.
- 7th Rule: Presentations will go on as long as they have to or until they run into another presentation slot.
- 8th Rule: If this is your first time at BarCamp, you HAVE to present.

Venue: Techgate
Donau-City-Strasse 1
1220 Vienna

Information: Ms Gertraud Oberzaucher
AustriaTech
Tel: +4312633444-40
E-mail: gertraud.oberzaucher@austriatech.org

ANCILLARY EVENTS

Professional capacity building – How well is the ITS industry served?

Sunday 21 October 2012, 11.00–16.30

Workshop presented by the International Benefit, Evaluation and Cost (IBEC) Working Group Held in Conjunction with 19th World Congress on ITS in Vienna, Austria

The International Benefits, Evaluation, and Costs (IBEC) Working Group continues its long-standing presence at ITS World Congresses with a pre-Congress workshop that will address the role that professional development plays to prepare the next generation of ITS professionals and managers, and to upgrade the skills of those already active in the ITS field. This issue is growing in importance and urgency as the first generation of ITS professionals retire and as the ITS technical knowledge base expands. The ITS education and training community includes a variety of formats: universities, colleges, trade schools, ITS Association workshops and on-the-job training by employers. This workshop will explore the nature of the ITS education and training now available worldwide, the linkages to research and development and to industry and societal needs, the measurement of performance, and the way forward to improve performance and the benefits to transportation.

Price: €80

Venue: Austria Trend Hotel Donauzentrum, Wagramerstrasse 83-85

Information: Please visit www.ibec-its.co.uk
For additional information or contact Ms Patty Fusaro at pfusaro@itsa.org



Towards first ITS specifications – ITS Conference 2012

Monday 22 October 2012, 09.00–16.20

Objective

The European Commission is organising on 22 October 2012 its 3rd Conference on Intelligent Transport in Europe. The objective of this high-level conference is to discuss results of the Intelligent Transport Systems (ITS) Action Plan and to present the status of the implementation of the ITS Directive.

Topics to be discussed

The agenda of the European Commission ITS Conference 2012 will include the following topics:

- Implementation progress in ITS Action Plan and ITS Directive
- Presentation and discussion of preliminary results on:
 1. Specifications under the ITS Directive
 2. Legal issues for ITS deployment
 3. European multi-modal journey planners

Who is expected to participate?

The ITS Conference 2012 will bring together high-level representatives from the European institutions and key stakeholders from the public and private sectors of the ITS community in the European Union.

The European Commissioner for Transport, Vice-President Siim Kallas, will open the Conference, together with representatives from the Cypriot Presidency and the European Parliament. The European Commission will outline the progress in the implementation of the ITS Action Plan and the ITS Directive, with detailed presentation on a number of key actions. Panellists from private and public stakeholders will comment on the achievements and further discuss the way forward.

Interpretation in English and German will be provided. Participation to the Conference is free of charge.

Venue: Messe Wien

Information: www.ec.europa.eu/transport/its/events/index_en.htm
E-mail: MOVE-ITS-CONFERENCE@ec.europa.eu



My Mobility: Safe, smart & clean

Monday 22 October 2012 – Friday 26 October 2012, 12.30–13.15

Intelligent Car Support aims to support the implementation of actions and recommendations resulting from the work of the iMobility Forum and the Intelligent Car Initiative. This includes support for the iMobility Forum and its constituencies (including its Working Groups and Task Forces) strengthening the iMobility cooperation among stakeholders, support the development of the Implementation Road Map for all iMobility systems, contribute to the implementation process of the European eCall system by supporting the European eCall Implementation Platform, support the i2010 initiative in particular the activities dealing with user outreach and deployment of smarter, safer and cleaner vehicles in the future.

From 22 to 26 October 2012, iCar Support will organise at its stand during lunch breaks 45 minute discussion slots on different topics of the iMobility forum working groups.

The audience will have the possibility to listen to presentations and also have the possibility to learn about the results and achievements of the iMobility Forum working group activities.

Venue: Messe Wien, iCar Support Stand

Information: Ms Lina Konstantinopoulou, iCar Support Coordinator
ERTICO – ITS Europe
Tel: + 32 (0)2 400 07 49
E-mail: l.konstantinopoulou@mail.ertico.com



5th NEARCTIS workshop – Structuring future research effort in road cooperative traffic management

Monday 22 October 2012, 09.00–17.00

NEARCTIS, A Network of Excellence for Advanced Road Cooperative Traffic Management in the Information Society, is an Academic Network gathering the main teams working on the field of traffic management and optimisation, with a particular focus on cooperative systems for road traffic optimisation, but it covers a wider scope as it appears that cooperative systems have to be integrated into the whole traffic management systems.

The 5th workshop, to be held in Vienna in conjunction with the 19th ITS World Congress, constitutes an excellent opportunity to meet the active community working in traffic modeling and management area and to inform and discuss the latest progress of research activities.

This event is the right platform for sharing experiences and for discussing the future of traffic management.

An informal lunch will be included. Attendance is free of charge.

Venue: Courtyard by Marriott Wien Messe, Trabrennstrasse 4, Vienna, Austria

Information: For more information, please visit the NEARCTIS website: www.nearctis.org



ECOSTAND ITS Energy Symposium

Monday 22 October 2012, 11.00–15.30



The EU-funded Support Action ECOSTAND will hold a Symposium at the Vienna ITS World Congress on 22 October 2012. ECOSTAND is driving the joint effort by European, Japanese and American experts in the field towards a common methodology for impact assessment of ITS sustainability applications.

This Symposium is open to external stakeholders either developing such applications or assessing their environmental impact, as well as those interested in investing in these solutions to reduce CO2 emissions.

The Symposium will present the preliminary results of ECOSTAND on the methodology development. Round tables will be organised to gather feedback and identify open questions.

Venue: Messe Wien, Schubert Rooms.

Information: www.ecostand-project.eu

If you are interested and wish to be kept informed on this event, contact: j.castermans@mail.ertico.com

ANCILLARY EVENTS

A vision towards urban intelligent mobility

Tuesday 23 October 2012, 14.00–16.45

i-Tour is a three-year research project in the EU FP7 Transport program that addresses Safety, Efficiency, Environmental Sustainability in personal mobility by providing intelligent multi-modal mobility services. The i-Tour client will support and suggest, in a user-friendly way, the use of different forms of transport (bus, car, railroad, tram, etc.) taking into account user preferences as well as real-time information on road conditions, weather, public transport network condition.

This workshop will present some preliminary results of the project, including latest research on urban intelligent mobility, privacy issues and obligations in urban smart-city services, business models for intelligent mobility systems, together with an insight from various stakeholders on the future of urban intelligent mobility.

Venue: Austria Trend Hotel Donauzentrum, Wagramer Strasse 83-85

Information: Ms Cristina d'Alessandro
Fondazione FORMIT
Tel: +390817879753
E-mail: c.dalessandro@formit.org
www.itourproject.com



The new European Space Expo comes to ITS Vienna 2012

Monday 22 October 2012 – Friday 26 October 2012

The European Commission has launched the European Space Expo Road Show to raise awareness of the European Space Programme, highlighting the critical role of the European Union in space and space-based technologies. This demo aims to promote the European Space infrastructure (Galileo, EGNOS and GMES) and providing Congress visitors concrete information on the benefits, applications and services that the infrastructure will bring to citizens.

Through the investment in the flagship programmes of Galileo, Europe's future global satellite navigation system, and the Global Monitoring for Environment and Security (GMES), citizens from Europe and around the world will benefit from a wide range of services and applications that are expected to create global market opportunities and help to support job creation and economic growth.

At ITS Vienna 2012, visitors to the Expo can see, touch, and experience the wide range of innovative technologies and services that space offers to the Intelligent Transport sector. The structure will host 12 application demonstration kiosks with multimedia plasma screens enabling visitors to explore contents such as video, images and information explaining and demonstrating how GNSS and GMES bring benefits to specific areas such as economy, environment, safety and transport.

A large acrylic globe with a self-contained, high-intensity LCD projector called "OmniGlobe" built into its supporting base will be placed in the Space Expo. This 360-degree display system can be used as an interactive display for presenting spherical data in its natural format.

The European Space Expo at ITS Vienna 2012 is built in cooperation with GSA, Austrospace – Vereinigung zur Förderung der österreichischen Weltraumindustrie, AustriaTech, bmvit, Geoville Informationssysteme und Datenverarbeitung, FFG – Österreichische Forschungsförderungsgesellschaft, Österreichischer Verein für Navigation, RUAG Space GmbH, Siemens AG, TeleConsult Austria.

Venue: Messe Wien

Information: www.gsa.europa.eu





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TECHNICAL VISITS

Technical Visit 1

Visit to the Austrian national traffic management centre

This tour will cover the modern national traffic control centre situated in Vienna Inzersdorf where ASFINAG, the Austrian motorway operator, defines nationwide traffic management measures and provides traffic information to road users. Guided by ASFINAG employees, participants will get an overview of day-to-day traffic management and traffic information activities, e.g. the Austrian video system which combines images from 4,000 video cameras. With its close link to the Austrian Broadcasting Corporation ORF, up-to-date traffic information can be communicated to road users quickly.

Date and time: 23–25 October 2012,
09.00–11.30 / 12.00–14.30 / 15.00–17.30

Min/Max number of participants: 5/35

Cost per person: €30 (€25 + VAT)

Assembly & dispersal: Messe Wien



Technical Visit 2

Visit to Siemens AG Austria – World headquarters for metro, coaches and light rail

The Siemens plant in Vienna Simmering is the worldwide location for metro, coaches and light rail and a major cornerstone of the Siemens railway engineering and technology sector. Logistics and processing chains are carried out here, from research, development and engineering through to production and commissioning. Large-profile constructions such as stainless steel and aluminium rail vehicles call for state-of-the-art manufacturing technologies, including high-performance welding robots. Seven separate assembly modules are spread over an area of nearly 14,000 m² in the final assembly workshop, where several vehicles can be assembled simultaneously. As a result, up to 500 vehicles can be completed and delivered each year. Rail vehicle design and production goes back more than 180 years to the time of the "k&K-Waggonfabrik" (imperial royal wagon factory).

Date and time: 24 October 2012, 09.30–12.00

Centre, 1020 Vienna

Cost per person: €30 (€25 + VAT)

Max number of participants: 150

Assembly & dispersal: Messe Wien Exhibition & Congress



Technical Visit 3

ÖBB Train monitoring site

At the ÖBB train monitoring site in Deutsch-Wagram, attendees will be introduced to the train monitoring system of ÖBB which is installed in the whole railway network in Austria and which is capable of checking several train parameters. This gaging station helps to understand wheel/rail contact to optimise technical conditions for rail traffic.

Date and time: 23–26 October 2012, 10.30–13.30

Cost per person: €30 (€25 + VAT)

Assembly & dispersal: Messe Wien

Min/Max number of participants: 25/50



Technical Visit 4

ÖBB Traffic management facility

Attendees will receive a first-hand look at the ÖBB Traffic engineering and management facility at the new Vienna Central train station. They will get familiar with the operations of the train control system as well as the Rail Emergency Management System.

Date and time: 23–25 October 2012,
09.00–11.30/12.00–14.30/15.00–17.30
26 October 2012 (in the morning)

Cost per person: €30 (€25 + VAT)

Assembly & dispersal: Messe Wien

Min/Max number of participants: 25/50



Technical Visit 5

Visit to the Vienna climatic wind tunnel

The Vienna Climatic Wind Tunnel offers visitors the opportunity to see the impact of weather on vehicles and components under realistic operating conditions. Any weather conditions can be produced at the push of a button – temperatures from -45°C to $+60^{\circ}\text{C}$, solar radiation, snow, rain and ice. The facility has been specially designed for rail vehicles, but also ensures optimal testing conditions for buses and infrastructure equipment. The focus is both on the optimisation of thermal comfort and the improvement of general reliability, safety and energy efficiency.

Date and time: 23 and 24 October 2012,
10.00–12.30/13.00–15.30

Cost per person: €30 (€25 + VAT)

Assembly & dispersal: Messe Wien

Min/Max number of participants: 25/50



TECHNICAL VISITS

Technical Visit 6

Danube Grand Tour

The Danube River provides a modern and living infrastructure for inland shipping – the most environmentally friendly means of transport right at the heart of Europe. Onboard the MS Vindobona (designed by Hundertwasser) passing by the lock of Nussdorf, you will experience Danube Navigation in the making! Staying with the concept of being Smarter on the way, you will enjoy an expert presentation on Danube River Information Services (DoRIS) which are customised information services for inland waterway transport on the Danube River. Another presentation of the Port of Vienna will round up the journey. The Port of Vienna is a logistics hub in the heart of the city, offering direct links to the three main means of transport, namely water, rail and road.

Date and time: 23–25 October 2012, 11.45–13.50

Cost per person: €30 (incl. VAT)

Assembly & dispersal: Messe Wien, Schwedenplatz (port)

Min/Max number of participants: 70



Technical Visit 7

Austrian Truck Tolling and ITS Tunnel Safety Tour

The Semmering Tunnel Chain covers a stretch of over 17km road and comprises six twin bore tunnels all operated in directional traffic. The longest tunnel is 3.5km. The tunnels are equipped according to the highest safety standards (e.g. Video Incident Detection System) for road tunnels as evidenced by Tunnel Assessment Programmes performed, such as the Euro TAP or rvs. Participants will get an overview and hands on examples of how such a system is being operated and maintained. Whilst doing so visitors get an insight to the diverse solution capabilities and take advantage of the shared experience. On the way to the Semmering tunnel, the visitors will have the possibility to experience the Austrian tolling system for heavy goods vehicles (HGV) above 3.5 tons. The fully electronic truck tolling system is implemented on the entire Austrian highway network of about 2200km. The DSRC system is in multi-lane free-flow configuration and comprises about 850 toll-gantries as well as more than 140 enforcement points. Every working day the system collects and processes over 2.5 million transactions in real-time which results in a yearly toll income up to 1 billion Euros for ASFINAG, the Austrian highway network concessionaire.

Date and time: 23–25 October 2012, 09.00–13.00

Cost per person: €30 (incl. VAT)

Assembly & dispersal: Messe Wien

Min/Max number of participants: 5/15



Technical Visit 8

Bombardier Transportation Vienna Site

Bombardier Transportation, the market leader in the global light rail business, has its LRV centre of competence in Vienna with app. 700 employees developing and building trams and LRVs. 80% of the vehicles built on this site are exported to cities across the globe, e.g. Alicante, Augsburg, Blackpool, Cologne, Innsbruck, Karlsruhe, Linz, Marseille, Palermo, Valencia and Vienna. See for yourself how these vehicles are being built!

Date and time: 22 and 23 October 2012, 10.00-12.00/13.30-16.00

Cost per person: €30 (incl. VAT)

Assembly & dispersal: Messe Wien, Schwedenplatz (port)

Min/Max number of participants: 25



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At ITS Vienna 2012, demonstrations are organised in five thematic areas and all of them start and end in the Demonstration Launch Area, in exhibition Hall A of the World Congress. The demonstrations have been selected as a result of two open calls for participation in April and November 2011 and subsequent preparations, and aim to show technical innovations and user benefits as far as possible in an everyday transport environment in the city of Vienna. In most of the demonstrations there will be an introduction in the Launch Area and then move to the respective installations or prototypes in small groups to enable a direct user experience. The following five thematic areas show the wide spectrum of ITS applications that will be shown in the demonstrations on site. A draft programme is available online at www.itsworldcongress.at and will also be on display as a printed demo guide on site. We recommend that you book your demonstration visits as early as possible. Please check in at the Demonstration Launch Area at least five minutes before your demonstration starts or your reservation will expire and the place allocated on site. The mobile application called Kongressnavigator, which is available for iPhone, Android and Mobile Web, also allows you to register for demonstrations.

Cooperative Mobility



© AustriaTech

Cooperative mobility is a major development area of ITS and is the cornerstone of demonstrations in Vienna. Both technical elements car-to-car communication and car-to-infrastructure communication based on the EU and worldwide communication standards will be shown in the cooperative mobility demonstrations with the aim to present interoperability of all systems involved from six major vehicle manufacturers and four infrastructure equipment suppliers.

Car-to-car communication, where vehicles "talk" to each other about traffic information and situations, such as road characteristics and dangerous situations ahead, complements car-to-infrastructure communication on urban roads and city motorways in Vienna. The information exchange between vehicles and the infrastructure installations on urban intersections and

motorway variable message signs from different manufacturers enables dynamic traffic information and management. The scope of the demonstration is enhanced traffic efficiency and road safety.



© ASFINAG

E-mobility

In these times environmental protection gets more and more important on the policy agenda and especially in urban areas e-mobility is one way to reduce pollution and the consumption of fossil fuels. E-mobility provides many new ways of moving without CO2 emissions like e-bikes and fully electric cars. With these two vehicle technologies, travelling in cities becomes more comfortable, faster and cleaner and an increasing number of manufacturers present a reduced emissions vehicle product line. With increasing numbers of fully electric vehicles, it is important to include these technical elements in the many urban mobility ITS solutions. The demonstrations at ITS Vienna 2012 include energy efficient routing in cities based on real time traffic information, full dynamic system integration with publicly available charging stations. And for the end user the integration of fully electric vehicles in combined use scenarios with public transport can also be an interesting and comfortable option and you can experience these new solutions in this demonstration area.



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DEMONSTRATIONS

Navigation & Sensors

© EFKON



In ITS there is no need to just reinvent navigation, but it is all about continuous development to match today's market requirements and extending existing solutions with connected sensors. Intelligent Transport Systems offer new solutions for making navigation products more dynamic from a transport information point of view and personalized for the single user. The demonstrations in this area show navigation systems for special purposes like tracking and tracing of dangerous goods throughout the European Union with improved precision. Modern in vehicle connected sensors combined with navigation systems provide new services to travellers and allow automated parking under different traffic conditions. Therefore delegates experience how these two technologies can be combined to balance each other's

disadvantages. Congress visitors can also experience the full range of European space-related projects at the Space Expo, a hemispheric building placed in front of the entrance of Messe Wien.

Please register online for your preferred area of demonstration and the respective single demonstration slot and you will experience many new ITS solutions in Vienna.

Network Operations

High quality transport infrastructure networks can only be monitored and operated if there is an adaptive and efficient concept of operations behind it. In the European Union different tolling solutions have been created at city, regional or national level and now system operation and improvement is one central aspect of technical development which result in lower costs for operators and authorities. Demonstrations will show integrated ticketing of various modes of transport including public transport, parking and lease options, as well as new enforcement solutions. At the same time system interoperability is a major driver of innovation and in this demonstration area you can experience the full range of available solutions for a future seamless move on European motorways.



© ASFINAG

Public transport



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For the first time in ITS World Congress demonstrations one focus in Vienna is how to improve the efficiency and the safety of the public transport system. With ITS, we can provide solutions which increase the capacity of passenger flows in stations and optimal arrangement of passengers in the public transport vehicle after mass events. There are also solutions for optimising the routes of public transport and for reducing the waiting time between public transport vehicles in rush hours. Furthermore to every congress delegate there is a solution which offers a multi-modal pre-trip and on trip routing service, including public transport options. The use of mobile phones for dynamic user feedback to provided information services is another field of application in the public transport domain which will have high impact on the service quality.

Pre Congress tour

Experience Bratislava & the baroque palace "Schloss Hof"

In the morning, a bus will transfer you from Vienna to Bratislava, the capital and largest city in Slovakia. Upon arrival, there will be a walking tour in the historical city centre, and lunch will be provided in a typical local restaurant. On the way back to Vienna, you will stop off at the Baroque palace "Schloss Hof". As one of the largest and most magnificent imperial residences in the Habsburg Empire, in the 18th Century Schloss Hof was the stunning setting for grandiose receptions and imperial festivities. A walk through the gardens will round off the tour perfectly. Only a few Baroque gardens in Europe were able to match the splendour and sophistication of those around Schloss Hof, which are laid out over seven terraces.

During the bus transfer, the electronic toll system of the Slovak Republic, in operation since 1 January 2010, will be demonstrated. It was established to charge vehicles with total weight over 3.5t on motorways, expressways and 1st class roads. Vehicles with a total weight below 3.5t are charged through a vignette system.

The electronic toll collection system is unique and is based on GPS and GSM technology providing maximum flexibility. Vehicles do not need to slow down to pay the charges within the second largest toll network in the EU, second only to Germany in size.

ITS Programme:

- In the bus (on the way from Vienna to Bratislava): Short presentation about electronic toll system in Slovak Republic
- In the car park of National Motorway Company, Apollo Business Center, Mlynské Nivy 45, Bratislava: Display of police car and instruments used to enforce the toll system and how foreign road users are handled, for example how the on-board units (OBU) are distributed
- Apollo Business Centre, Mlynské Nivy 45, Bratislava: Visit to SkyToll back-office and helpdesk

Date and time:

21 October 2012, 09.00-18.00

Cost per person: €95 (incl. VAT)

Assembly & dispersal: Schwedenplatz (at the night bus stop), 1010 Vienna

Included in the price: Private bus, English speaking guide, 3 course lunch (including beverage package) in Bratislava, entrance fee to Schloss Hof

Min/Max number of participants: 20/55



Post Congress tour

Salzburg – City of music and mobility

This weekend trip gives you an overall impression of the Baroque city of Salzburg.

A highlight is the guided city walk on Saturday morning, which includes sights like the Cathedral and St. Peter's Abbey, the Residence and the Fortress, Mozart's Birthplace, the Festival-Theatres, the oldest pharmacy and the oldest café, Salzach river, the hills in the city and many other sights.

Also included on Saturday is a Guided Tour of the Obersalzberg in Berchtesgaden. You will have the chance to take a look in a section of the six km of underground bunkers that were built during World War II at the second seat of power under the Obersalzberg in Berchtesgaden. On Sunday after breakfast you will drive back to Vienna.

ITS Programme:

- A presentation of ITS applications with regional cooperation between Salzburg and the neighbouring region Bavaria in Germany
- A visit to GALILEO Gate, the satellite technology centre with the presentation of ITS applications using Galileo signals, in Berchtesgaden, Bavaria, Germany

PRE- & POST CONGRESS TOURS

Date and time: 26-28 October 2012

Cost per person:

3 Star Hotel: €370 (Single Room)/€415 (Double Room)

4 Star Hotel: €487 (Single Room)/€575 (Double Room)

Assembly & dispersal: Messe Wien Exhibition & Congress Centre, Main Entrance, Foyer A

Included in the price: 2 nights Accommodation in Salzburg in the respective category incl. breakfast, transfer Vienna – Salzburg – Vienna by private coach, 3 hour guided city walk Salzburg, Lunch Package during Transfer Salzburg – Berchtesgaden on Saturday, Guided Tour Berchtesgaden.

Optional: 3 course Mozart Dinner at St. Peter Stiftskeller: €51 (excl. drinks)

Min/Max number of participants: 25/55



Post Congress tour

Czech Republic – Study trip to the intelligent Prague motorway

Take some time out after the Congress to explore the surrounding area with a trip to Prague in the Czech Republic. This weekend break will include a coach transfer from Vienna to Prague on Friday afternoon and allow you free time after dinner that night. Saturday will be a busy day, with either a study trip showing the implementation of ITS on the Prague ring road, an "intelligent motorway", or a touristic look around the Old City, including the Old Town Hall with its famous Astronomical Clock, now over 600 years old. After a visit to the Bethlehem Chapel, both groups will rejoin for lunch back at the hotel, and the afternoon will offer a trip to the Karlštejn Castle, inhabited by Czech royalty from 1348 until Maria Theresa, wife of Austrian Emperor Ferdinand II, donated the dominion to the Institute of Noble Women in the 17th Century. A social programme on Saturday evening will include dinner and a concert, and on Sunday we will transfer you back to Vienna, or directly to Prague airport if preferred. You can tailor-make your programme, with possible alternative excursions including ITS for disabled people in public transport, or Prague's traffic management.

Date and time: 26-28 October 2012

Cost per person:

€600 (incl. VAT). Alternatively, we can provide 3 stars accommodation, lowering the price by around €100 per person.

Assembly & dispersal: To be advised on the tour voucher.

Included in the price: Bus transfers Vienna – Prague – Vienna, 2 nights accommodation in 4 stars hotel, all meals, study trip, sightseeing, social programme.

Min number of participants: 30



Tour 1

Belvedere Palace – The world's largest Gustav Klimt collection

The Belvedere's two magnificent palaces, the Upper and Lower Belvedere, were built in the 18th century as the summer residence for the important general Prince Eugene of Savoy (1663–1736). The palaces with their extensive gardens are considered to be one of the world's finest Baroque landmarks. The Upper Belvedere houses the world's largest Gustav Klimt collection. The glittering highlights are Klimt's golden pictures "The Kiss" and "Judith", and masterpieces by Schiele and Kokoschka. On the way back from Belvedere Castle you will ride along the Ringstrasse, passing the most important sights of Vienna.

Dates and times:

23 October 2012, 14.00–18.00

25 October 2012, 09.00–13.00

Cost per person: €42 (incl. VAT)

Assembly & dispersal: Messe Wien Exhibition & Congress Centre, Main Entrance, Foyer A

Included in the price: Private bus, English speaking guide, entrance fee Upper Belvedere

Min/Max number of participants: 20/55



© Belvedere, Wien

Tour 2

Discover the old town of Vienna on foot

A guided walk along Vienna's most celebrated sights. See the Imperial Palace (former Residence of the Habsburgs), the Spanish Riding School, the Opera House, St. Stephen's Cathedral, which marks the very heart of the city, and other beautiful monuments. Hear anecdotes about Emperor Francis Joseph and his beautiful wife Sisi and stories about the Habsburgs' unusual burial ceremonies, the history of the Sacher cake and many more.

Date and time: 22 October 2012, 15.00–17.00

23 October 2012, 09.00–11.00

24 October 2012, 15.00–17.00

Cost per person: €22 (incl. VAT)

Assembly & dispersal: Behind the State Opera, in front of the Vienna Tourist Office, Albertinaplatz, 1010 Vienna

Included in the price: English speaking guide

Min/Max number of participants: 20/55



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Tour 3

Historical city tour with visit of Schönbrunn palace

This is the perfect tour to get an overall impression of beautiful Vienna. Get to know the many magnificent buildings along the Ringstrasse, such as the State Opera, the Museums of Fine Arts and Natural History, the Hofburg (Imperial Palace), Parliament, City Hall, the Burgtheater and the Votivkirche. Another highlight is the guided tour through the wonderful stately rooms of Schönbrunn Palace, the former summer residence of the Habsburg family. The return is via Belvedere Palace.

Dates and times: 21 October 2012, 14.00–18.00

22 October 2012, 14.00–18.00

24 October 2012, 09.00–13.00

Cost per person: €42 (incl. VAT)

Assembly & dispersal: Messe Wien Exhibition & Congress Centre, Main Entrance, Foyer A

Included in the price: Private bus, English speaking guide, entrance fee Schönbrunn

Min/Max number of participants: 20/55



© WienTourismus

ACCOMPANYING PERSONS' TOURS

Tour 4

Danube Valley Wachau – The abbey of Melk and boat tour along the Danube

This excursion takes you to the Wachau, often described as Austria's most beautiful 35 km. Located along the banks of the Danube between Melk and Krems, the Wachau surely is one of the most romantic and enchanting riverscapes of Europe. Here the mighty stream is framed by soft hills and terraces of wine and fruit plantations.

First we take you to the Benedictine Abbey of Melk. Situated on a plateau overlooking the Danube, this baroque monument is a perfect example of harmony between architecture and landscape. The library, with more than 80000 volumes and manuscripts, is particularly impressive.

We will stop for lunch in Emmersdorf, and afterwards continue to Dürnstein by boat. Dürnstein is one of the prettiest places in the Wachau and during the boat tour, history will be brought back to life. This is the town where King Richard the Lionheart was held captive, and was liberated by his loyal servant Blondel.

Date and time: 25 October 2012, 08.45-18.00

Cost per person: €99 (incl. VAT)

Assembly & dispersal: Messe Wien Exhibition & Congress Centre, Main Entrance, Foyer A

Included in the price: Private bus, English speaking guide, entrance fee Abbey of Melk, 3 course lunch (including beverage package) in Emmersdorf, boat trip on the Danube

Min/Max number of participants: 20/55



© Stadtgemeinde Dürnstein

Booking

To book all Pre & Post tours as well as Accompanying Persons' tours, please contact Kuoni directly at its2012@at.kuoni.com.

Terms and conditions

All cancellations are to be addressed to Kuoni in writing. Changes requested by phone will not be accepted.

Sightseeing tours Vienna and surroundings

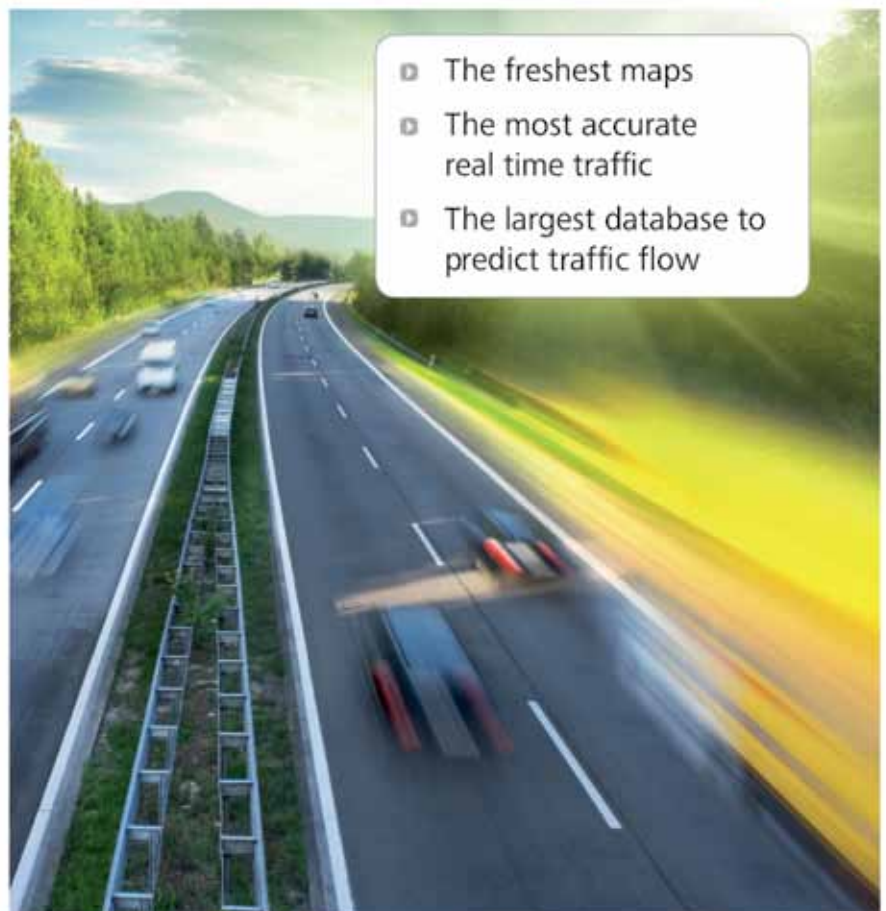
Until 19 September 2012 the tour can be cancelled free of charge.
From 20 September 2012 until Congress start the tour will be fully charged.

Post Congress tour Salzburg

Until 1 August 2012 the hotel reservation can be cancelled free of charge.
From 2 August 2012 until Congress starts, the tour will be fully charged.

Please note that all refunds for tours will be made after the congress.

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Welcome Reception

Monday 22 October 2012, 18.30–20.30

Mall next to Strauss Hall

Following the Opening Ceremony of the 19th ITS World Congress in the stunning Strauss Hall of the Messe Wien, we would like to invite you to a Welcome Reception in the Mall, sponsored by Kapsch. This event includes a mouth-watering buffet with finger-food and drinks, and provides the perfect backdrop for that all-important networking. Take some time to get together and meet new friends, reignite old acquaintances, and above all, relax and enjoy yourself as the first day of the Congress comes to its close.

We hope that this reception will enrich your experience at the Congress, with plentiful food, a beautiful setting, and good company.

This event will be free, but please register for it at www.itsworldcongress.com

Hosted by **kapsch** >>>

Gala Dinner & ITS Ball

Wednesday 24 October 2012, 19.00–01.00

Hofburg Vienna

Join us at the Hofburg Palace for the unique ITS-Ball! Enjoy an unforgettable night of fine foods, wines and ballroom dancing. The former imperial residence is testament to the interplay between the historical and the modern. Over a period of 700 years, Austria's rulers extended the Hofburg to make it fitting for its residents. The grand staircase leads to the state rooms of the Imperial Residence, whose splendour and size give the Hofburg its deserved reputation as Europe's first address for conferences and events.

A four-course banquet fit for an emperor will be served in this once-regal home, now famed for its traditional Viennese Balls. Dinner starts at 19.00, and will be accompanied by a selection of fine wines and beers, as well as soft drinks and coffees. The first-ever ITS-Ball begins at 21.00, with a performance by professional waltzing couples in the Festsaal, which is sponsored by Siemens. The Vienna Ambassade Orchester will entertain with Viennese waltzes and other Classical music. In the meantime, in the glittering throne room, sponsored by Kapsch, City Lights will play a selection of more modern music, including fox-trot, tango, and samba, among many others.

For those less nimble on their feet, a dance lesson will be held in the Conservatory by the Elmayer Dance School, which is firmly dedicated to the cultivation and development of the world famous and unique Viennese Ball tradition. Other rooms and bars throughout the Hofburg will be open and provide a welcome space to cool down and rest from dancing! Midnight calls for a Quadrille and a snack of "Wiener Würstchen", a traditional favourite in the Viennese Ball culture.

Cost per person: €156 (€130 + VAT)

Hosted by **kapsch** >>>

SIEMENS

Preferred dress code for the ITS Ball

The dress code for the Dinner is Smart Casual, but those who want to get in the Viennese spirit and waltz should wear more formal attire (Cocktail or evening dress/Dinner jacket or dark suit)

There are many places where it is possible to buy or hire ladies' and gentlemen's evening-wear in Vienna.

Try these to get you started, or find your own style: Lambert Hofer www.lambert-hofer.at



© Hofburg Wien



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SPECIAL FEATURES

Public Day

Thursday 25 October 2012, 09.00–17.00

We would like to invite all the general public to the 19th World Congress on 25 October. We will start with presentations of results from students, and best practice examples from ITS school projects. Doris Bures will award the best doctoral thesis, master thesis and the winner of the competition for pupils. Subsequently Minister Bures will give the welcome speech at the women's reception where successful professional women will talk about their career. In the afternoon we will organise a so-called "speed dating" for pupils, to provide the opportunity to talk with ITS experts.

We will award the prizes to the winners of the Congress Navigator Challenges, before we invite you to the reception at the Austrian booth.

In addition, we will offer guided tours through the exhibition, demonstrations and technical tours to investigate new products and solutions.

As a particular point of interest for this multi-cultural day, we would like to invite all attendees to wear traditional national dress from their country.



© Wiener Linien

Congress Navigator



For an easy and pleasant stay in Vienna for the 19th ITS World Congress, this smartphone app delivers all the necessary information about the congress to delegates and exhibition visitors. It is a multifunctional tool, with options such as a congress programme, personal calendar, and routing and feedback services. First of all, delegates and visitors can find information about sessions, speakers, demonstrations, and exhibitors they are interested in, and can bookmark this information for later. Delegates can also manage their personal congress calendar, which includes all sessions and demonstrations they would like to attend. It is easy to give feedback during the congress, and it is also possible to chat via twitter about the congress and specific sessions or demonstrations.

A special feature of the Congress Navigator is the combination of outdoor routing in Vienna with an indoor routing within the congress area and exhibition. Delegates and visitors can easily find their hotel, the congress venue or any point of interest, and can easily travel around Vienna. In the congress area, delegates and visitors can use the indoor routing function to find the fastest route between two points, e.g. from one exhibitor booth to another. It is also possible to combine an indoor and an outdoor route.

This app will serve as a ticket for the public transport system of Vienna for the week of the congress. The ticket is free for congress participants and covers the entire city area, including all services by Wiener Linien and ÖBB (the City Airport Train is not covered). We recommend that you download the app beforehand, so that you can use it as soon as you arrive in Vienna. Otherwise, you can download it during the congress and start using it then.

The Congress Navigator is available as app for iPhone and Android and as mobileweb version.

Full details will be available on the website. A wireless network with no additional data charges will be available for the Congress Navigator at the Congress Centre. The Wi-Fi is sponsored by Kapsch.

kapsch >>>

Business Sessions

For the first time in Europe, business sessions will be organised on Thursday late afternoon to give the opportunity to the industry players to share their views on specific issue or their products and services. These tailored made sessions organised by one or more companies, are open to all attendees of the Congress and will focus on the commercial and promotion aspect of ITS products and services.

EUROCITIES



EUROCITIES is the network of major European cities.

Created in 1986, EUROCITIES brings together the democratically elected local governments of 134 cities including cities in the European Union and cities in other European countries. EUROCITIES is committed to working towards a common vision of a sustainable future in which all citizens can enjoy a good quality of life. EUROCITIES is comprised of 6 thematic forums including the Knowledge Society Forum which brings together member cities to work on issues such as ICT for sustainable development, digital inclusion and empowerment, open data and smart cities.

ITS World Congress: Wednesday focuses on urban mobility

Intelligent Urban Mobility/Smart Mobility is currently high on the agenda of the European cities. EUROCITIES is one of the key stakeholders on the European stage and has been intensively committed to contributing to the EU work on these issues, most recently through the newly launched European Commission Smart Cities and Communities Initiative.

On 23 October in Vienna, the EUROCITIES Knowledge Society Forum, in collaboration with the EUROCITIES Mobility Forum, will be hosting its Autumn event on "Connected Cities - Mobile Citizens". The event programme has been designed to link to the ITS World Congress. A Special Interest Session on open data for smart mobility applications organised jointly by the city of Vienna and EUROCITIES will allow for a fruitful exchange of ideas between experts, politicians, senior officers and consumers on issues such as: smartening urban mobility by ICT; the role of open data in urban innovation; usability and gender adequateness in mobility app development.

www.eurocities.eu



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REGISTRATION INFORMATION AND CATEGORIES

Categories	Duration	Early Rate (payment received by 20 July 2012)	Standard Rate (payment received after 20 July 2012)
Delegate ¹	Full event 1 day	€1140 (€950 + VAT) €660 (€550 + VAT)	€1440 (€1200 + VAT) €876 (€730 + VAT)
Exhibitor/Sponsor Delegate ¹	Full event	€1020 (€850 + VAT)	€1200 (€1000 + VAT)
Speaker/Moderator ²	Full event 1 day	€960 (€800 + VAT) €576 (€480 + VAT)	€960 (€800 + VAT) €576 (€480 + VAT)
Student ³ (Fee excludes lunch & refreshments)	Full event 1 day	€300 (€250 + VAT) €120 (€100 + VAT)	€300 (€250 + VAT) €120 (€100 + VAT)
Austrian Public Sector ⁴	Full event 1 day	€876 (€730 + VAT) €528 (€440 + VAT)	€1080 (€900 + VAT) €648 (€540 + VAT)
Journalist/Media ⁵	Full event 1 day	Free of charge Free of charge	Free of charge Free of charge
Developing Countries ⁶	Full event	€720 (€600 + VAT)	€840 (€700 + VAT)
Accompanying Person ⁷	Full event	Free of charge	Free of charge
Exhibition Visitor ⁸	Full event 1 day	Free of charge Free of charge	Free of charge Free of charge
Gala Dinner	24 October	€156 (€130 + VAT)	€156 (€130 + VAT)

N.B. Full Event denotes 5 days: Monday 22 October to Friday 26 October 2012

Free Childcare

Childcare will be provided for free from Tuesday 23 October to Thursday 25 October, from 09.00–17.00.

All children between the ages of 3 and 12 are welcome to attend, and will be supervised by a team from the University of Vienna's Children's Office, the Flying Nannies.

These reliable and competent carers are carefully selected, and all either study or have studied a degree in subject areas including psychology and education, as well as being thoroughly trained in First Aid, child care and play leading. They have extensive experience working with children, including an internship before they can become a Nanny. Your children can enjoy a variety of toys, games and craft activities, leaving you free to make the most of the Congress.

It helps the Nannies to plan better activities for the children if they are registered before the congress using the registration form online (www.itsworldcongress.com/registration).

Registration includes

The Congress registration fee includes entry into the Congress sessions on the day(s) selected, all Congress documents and CD Rom, light lunch and refreshments on the day(s) selected (except for Student Delegates), as well as entrance to the Opening Ceremony. The ticket also includes entry into the Exhibition for its duration and the "Interactive Sessions". Please note that the Congress registration fee does not include the Gala Dinner or accommodation.

(1) Delegate & Exhibitor/Sponsor Delegate

As a delegate, you are entitled to attend all Congress sessions and the Exhibition (including the outdoor demonstration area and Interactive Sessions) on the day(s) selected. Registration also includes the delegate bag, proceedings' CD Rom, light lunches and refreshments.

To qualify as an Exhibitor or Sponsor Delegate you must be attending on behalf of an exhibitor or sponsoring company and your company name on your badge must be the same as the contracted company.

(2) Speaker/Moderator

As a speaker and/or moderator you are entitled to attend all Congress sessions and the Exhibition (including the outdoor demonstration area and interactive sessions) on the day(s) selected.

REGISTRATION INFORMATION AND CATEGORIES

Registration also includes the delegate bag, proceedings' CD Rom, light lunches and refreshments.

Paper or session numbers will be requested at registration. One speaker per paper and/or presentation is entitled to this discounted rate.

(3) Student

As a student, you are entitled to attend all Congress sessions and the Exhibition (including the outdoor demonstration area and Interactive Sessions). Registration also includes the delegate bag and proceedings' CD Rom. A faxed or scanned copy of your student card or official letter from your university must be sent on the date of your registration to validate the booking and confirming that you are a full time student. This should be sent to Rachel Gardner at r.gardner@hgluk.com or by fax to +44 20 7973 6600. Students will need valid ID at the time of registration and this ID must be presented when collecting badges onsite. The organisers reserve the right to refuse entry to any registration that does not adhere to these requirements.

(4) Austrian Public Sector

The Austrian Public Sector ticket entitles you to attend all Congress sessions and the Exhibition (including the outdoor demonstration area and Interactive Sessions) on the day(s) selected. Registration also includes the delegate bag, proceedings' CD Rom, light lunches and refreshments.

Austrian Public Sector attendees are entitled to a discounted rate. Employees of all central government, local authorities and publicly funded corporations are eligible for this discount. The organisers reserve the right to request identification to prove eligibility for this discount at any time.

(5) Journalist/Media

Members of the press are invited to attend the Congress free of charge. A faxed or scanned copy of your press ID must be sent on the date of your registration to validate the booking. Please send this to: Rachel Gardner at r.gardner@hgluk.com or fax to +44 20 7973 4615. Members of the press will need valid press ID at the time of registration and this ID must be presented when collecting badges onsite. The organisers reserve the right to refuse entry to any registration that does not adhere to these requirements.

Press must select the day(s) that they wish to attend and indicate if they will be attending the Exhibition and/or Congress.

(6) Developing Countries

To qualify for this ticket, you must reside in one of the countries listed on the Developing Countries list on the website, www.itsworldcongress.com. For any queries regarding this category and whether you qualify, please contact Rachel Gardner on r.gardner@hgluk.com

(7) Accompanying Person

To qualify as an accompanying person you must be attending with your spouse or partner and not be involved in the ITS industry. This ticket entitles you to attend the Exhibition for the duration of the Congress, the Opening and Closing Ceremonies and the Welcome Reception following the Opening Ceremony. If you are involved in the ITS industry, please register as an Exhibition visitor which allows the same entitlements.

(8) Exhibition Visitor

This entitles you to attend the Exhibition and outdoor demonstration area for the duration of the event. Please note that this registration category does not allow you to participate in the Congress sessions. Pre-registered visitors will be entitled to a free ticket. Onsite registrations will be charged €25 (€20 + VAT).

To register as an exhibition visitor, please use an exhibition visitor ticket. To request one, email k.coates@hgluk.com or register via the website at www.itsworldcongress.com

Group bookings and discounts

A group booking constitutes a booking of 10 or more paying Congress attendees and is at the discretion of the organisers. Group discounts are only available by contacting the financial controller Abi Jamison on Tel: + 44 207 973 4673 or by E-mail: a.jamison@hgluk.com. To qualify for the discount, all delegate names and details must be given at the time of booking. Group registration (10+ registrations made in one transaction only) entitles you to a 10% discount. Attendees that have already registered are not permitted to cancel and rebook under a group discount.

REGISTRATION PROCEDURE

Registrations should be made via the congress website: www.itsworldcongress.com/registration

Enquiries

For Congress registration enquiries, contact Rachel Gardner, Tel: +44 20 7973 4617 or r.gardner@hgluk.com

For Exhibition registration enquiries, contact Alla Melnychuk, Tel: +44 20 7973 6655 or a.melnichuk@hgluk.com

For payment enquiries, contact the accounts department accountsonline@hgluk.com

For visa letter request, contact Rita Michlits, Tel: +43 1 26 33 44443 or rita.michlits@austriatech.org

Onsite Registration and Opening Times

Congress badges will not be sent out before the event. Please ensure you bring your email confirmation with you when you register. For all paid registrations, an email containing your e-badge bar code will be emailed to you approximately 2 weeks before the event, this will enable you to register at the fast track registration terminals onsite.

The Congress registration will be held in Foyer of the Congress Centre situated at **Entrance A** of the Messe Wien Exhibition & Congress Centre.

To avoid queuing at the event, delegates are reminded to utilise the early registration, which will take place from 14.00 on Sunday 21 October 2012 and from 09.00 on Monday 22 October 2012.

Please note that new on-site registrations are recommended at this time.

	Congress Registration	Exhibition Registration
Sunday 21 October 2012	14.00–18.00	14.00–18.00 (<i>Exhibitors only</i>)
Monday 22 October 2012	09.00–18.00	11.00–18.00 (<i>Exhibitors only</i>)
Tuesday 23 October 2012	08.00–17.30	08.00–17.30
Wednesday 24 October 2012	08.00–17.30	08.00–17.30
Thursday 25 October 2012	08.00–17.30	08.00–17.30
Friday 26 October 2012	08.00–14.00	08.00–13.00

Terms and conditions

Registration fees

The Congress registration fee includes entry to the Congress sessions on the day(s) selected, congress bag, documents and CD Rom, light lunch and refreshments on the day(s) selected. It also includes entry into the Exhibition for its duration, entry to the Opening Ceremony and Reception, as well as the Welcome Reception and Closing Ceremony.

Early and standard payment rates

For all bookings made and paid before 20 July 2012 a discounted "early payment" rate applies. After this date the increased "standard payment" rate is applicable to all bookings. This fee structure means that unless credit card payment is made online at the time of completing the registration, all invoices will display the late payment rate irrespective of when the booking is made. A note on all invoices will advise on the amount that can be deducted from the total displayed if full payment is received before 20 July 2012. Part-credit notes are available on request if they are required for accounting records. Please note: These will be issued during the week commencing 29 October 2012. To request your credit note, email accountsonline@hgluk.com. You must include your invoice number on the email.

VAT reclaim (Value Added Tax)

Visitors from Overseas are entitled to reclaim the 20% VAT paid on many of their costs. VAT is charged on a wide range of goods and services including delegate costs in Austria and other common market (EU) countries. This includes trade shows and conferences, restaurants, business entertaining, telecommunications, hotels and many more items. To be entitled to do this, you must keep all foreign invoices.

For more information, please contact: + 44 1962 735350 or email peter.bradshaw@thevatconsultancy.com Further details can be found at www.thevatconsultancy.com.

Please note that the organisers take no responsibility for claiming VAT back on behalf of attendees.

Payment information

Payment is required in full before the event. Payment should be made either by debit/credit card or bank transfer. The following credit and debit cards are accepted: Visa, Eurocard/Mastercard, American Express and Maestro. Please make bank transfers to the following bank account:

Bank Name and Address	HSBC Bank 117 Great Portland Street, London W1W 6QJ, United Kingdom
Account Name	Hemming Group Limited
IBAN	GB84 MIDL 4005 1539 9767 29
Sort Code	40 – 05 – 15
Account Number	39976729
BIC	MIDLGB22

Please quote the invoice number, your company name and the delegate name on all remittances by bank transfer.

The Hemming Group Ltd reserves the right to refuse admission if payment is not received at least one week before the Congress opens.

Registration confirmation

You will always receive confirmation of your registration, joining instructions and a VAT invoice via email. If you do not receive this within a week of registering, please contact the organisers on +44 (0)20 7973 4617 to ensure your registration has been received. For registrations made after 5 October 2012, please call to confirm that places are available and your booking has been received.

Delegate confirmation and cancellation policy

Upon receipt of your booking form, your registration will be confirmed by email. Cancellations for the Congress, social events, technical visits or tours will not be accepted after 14 September 2012 and must be received in writing by the ITS Registration Secretariat (r.gardner@hgluk.com). Please ensure the delegate name, invoice number and company name is quoted on all correspondence. An administration fee of €120 (€100+ VAT) will be charged. After this date, no refunds will be made but substitutions are welcome. You will still be liable to pay for any bookings cancelled after 14 September 2012. If you do not attend the Congress, you will remain liable for full payment of any unpaid invoices, relating to bookings made for your attendance and not cancelled prior to 14 September 2012. This booking form constitutes a legally binding contract. It may be necessary for reasons beyond the control of the Hemming Group Ltd to change the content, timings, the date and venue. In the unlikely event of the programme being cancelled The Hemming Group Ltd will automatically make a full refund but disclaim any further liability.

Technical Visits and Gala Dinner

The Technical Visits and the Gala Dinner with ITS Ball are organised by AustriaTech. All requests for information and communications in connection with these aspects of the event should be directed to Rita Michlits at rita.michlits@austriatech.org. The Hemming Group Ltd is acting as an agent for the Austrian Organising Committee solely in the administration of registrations and collection of payments relating to the above activities.

Data protection

In accordance with the data protection act unless otherwise stated, your job title/company will be used in marketing material for this event. If you do not wish your details to appear please email w.broadfoot@hgluk.com.

ACCOMMODATION INFORMATION

The appointed Congress accommodation agency is Kuoni. A block booking of hotel rooms has been made at a variety of hotels in close proximity to the venue and in the centre of Vienna. A booking form can be found on page 134.

Kuoni is one of Europe's largest travel groups, active in a total of 75 countries in Europe, Asia, Africa, North America, India and the Middle East.

Kuoni have extensive knowledge of the local facilities and hotels in Vienna and have already placed a selection of rooms on hold and negotiated the best possible prices for ITS Vienna visitors and exhibitors.

There is a wide variety of hotels both on-site and in the surrounding area. Please see overleaf for the selection of hotels on offer and their location. Alternatively, you can go to the "Hotels and Travel" section on the website www.itsworldcongress.com

For maximum convenience, you can book your pre-held accommodation by:

Telephone: +43 1 319769029

E-mail: its2012@at.kuoni.com

Rates and hotel options are offered subject to availability and rooms are booked on a first come, first served basis.

Terms and conditions

All cancellations are to be addressed to Kuoni in writing. Changes requested by phone will not be accepted.

Individual booking

Until 30 June 2012, the room can be cancelled free of charge.

From 1 July to 19 September 2012, the room can be cancelled less the first night deposit.

From 20 September 2012, the total amount of stay will be charged.

No shows: the room will be cancelled after the first night, deposit paid will be kept.

Please note that all refunds for hotel reservations will be made after the congress.

Group booking

For group bookings (from 10 rooms onwards) we always set up a booking contract.

Until 15 June 2012

100% of your room reservation can be cancelled without any charge less first deposit

Until 10 July 2012

25% of your remaining room reservation per night can be cancelled without any charge.

Until 1 August 2012

15% of your remaining room reservation per night can be cancelled without any charge

Until 10 September 2012

5% of your remaining room reservation per night can be cancelled without any charge.

From 1 October 2012

No room cancellations are possible anymore free of charge.

No shows

In case of non-arrival no refunds can be granted.

All reductions exceeding the indicated limits as well as cancellations or no shows will be charged at 100% of the agreed room rate for the booked length of the stay.



ACCOMMODATION INFORMATION

HOTEL LIST: ITS World Congress Vienna 2012

HOTEL NAME	CAT.	SGL/DSU (€)	DBL (€)
Bristol	5*	265	320
Grand Hotel Wien	5*	285	315
Hilton Vienna am Stadtpark	Not cat. (5*)	229	249
Hilton Plaza	Not cat. (5*)	229	249
Imperial	5*	304	364
Intercontinental	Not cat. (5*)	249	299
Marriott Vienna	5*	229	244
Radisson BLU Palais	5*	200	220
Arcotel Kaiserwasser	4*	169	184
Artis	4*	100	137
City Central	4*	149/184	199
Courtyard Marriott Wien Messe	Not cat. (4*)	229	248
Fleming's Deluxe Hotel Wien City	Not cat. (4*)	169	189
Hilton Danube	4*	205	225
Lassalle	4*	175	190
Lindner am Belvedere	4*	189	229
Mercure Grandhotel Biedermeier	4*	166	183
Mercure Wien City	4*	174	189
Mercure Wien Zentrum	Not cat. (4*)	184	199
Mgallery am Konzerthaus	4*	166	183
NH Danube City	4*	180	200
Novotel Wien City	4*	186	203
Renaissance Wien Hotel	Not cat. (4*)	119	134
Savoyen	4*	200	220
Steigenberger Hotel Herrenhof	Not cat. (4*)	229	249
The Imperial Riding School	4*	169	184
Wilhelmshof	4*	189	219
Adlon	3*	114/134	144
Admiral	3*	98/120	130
Am Augarten	3*	99/109	119
Austria Classic Hotel Wien	3*	116/159	159
Beim Theresianum	3*	125	140
Cristall	3*	105/138	169
Hillinger	3*	109/119	129
Ibis Mariahilf	3*	85	113
Ibis Wien Messe	3*	82	110
Ibis Schönbrunnerstrasse	3*	79	107
Kärntnerhof	3*	99/135	155
Kunsthof	3*	95/103	124
Austria Trend Hotel Messe Wien	3*	175	190
Post	3*	90/120	135
Senator	3*	89	109
Suite Novotel Wien Messe	Not cat. (3*)	182	195
Wandl	3*	115/140	180
Etap Wien Messe	2*	54	71

All Rates are in Euro (€), per room, per night, including breakfast & taxes.

SGL/DSU = Single room/Double room single use

DBL = Double room

ACCOMMODATION INFORMATION



19th **ITS World Congress**
Vienna, Austria
22 to 26 October **2012**
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KUONI | Destination
Management

ITS World Congress Vienna 2012 APPLICATION FOR GROUPS (from 10 rooms up)

Company/Agency

Contact Person

Street

Zip Code/City

Phone

Fax

E-Mail

This application is submitted for the following Company:

Number of rooms per hotel category:

Cat.	No. of Rooms	Arrival Date	Departure Date
5* Hotel /10/2012 /10/2012
4* Hotel /10/2012 /10/2012
3* Hotel /10/2012 /10/2012

Preferred room types:

Hotel preferences:

1st Choice:

2nd Choice:

3rd Choice:

Special requirements: (hotel style, meeting room requirements in hotel, off site dinners, transfers etc..)

.....
.....
.....
.....

Name:

Company/Agency:

Date: Signature:

EXHIBITION INFORMATION

As the leading "Smart City" Vienna is proud to host the 19th ITS World Congress and Exhibition while extending its warm welcome to companies from all around the world to showcase their latest ITS developments to the unique audience of over 8000 delegates and visitors.

Under the motto *Smarter on the Way* the Exhibition will demonstrate global potential for growth and improvement through implementing practical benefits of Intelligent Transport Systems in daily life.

Over 80% of available exhibition spaces have already been reserved by many leading ITS companies as well as by national ITS Associations. They are coming from Austria, Europe, Asia-Pacific, the Americas and the rest of the world to reveal their latest products and developments across all the modes of transportation.

Every ITS-related topic is welcome to be displayed at the exhibition:

- ▼ Information collection and processing
- ▼ Traveller information
- ▼ Logistics
- ▼ Emergency and incident management
- ▼ In-vehicle ITS
- ▼ Vehicle infrastructure cooperation
- ▼ Vulnerable road user aspects
- ▼ Traffic safety and management
- ▼ Mode specific ITS
- ▼ Payment systems
- ▼ Other ITS topics

For further information about the Exhibition and to reserve your stand space, please contact:

Exhibition Sales Agent for Europe:

Ms Alla Melnychuk
Brintex
32 Vauxhall Bridge Road
London, SW1V 2SS, UK
Tel: +44 (0) 207 973 6655
Fax: +44 (0) 207 233 5054
E-mail: a.melnychuk@hgluk.com

Exhibition Sales Agent for Asia Pacific:

Ms Chihiro Tsuchiya
Tokyo International Planning, Inc.
SST BLDG., 1-11-22 Mita, Minato-ku
Tokyo 108-0073, Japan
Tel: +81 3 3798 5020
Fax: +81 3 3798 5021
E-mail: chihiro@tipexpos.com

Exhibition Sales Agent for the Americas:

Ms Carly DiVito
Corcoran Expositions
100 W. Monroe St. - Ste 1001
Chicago, IL 60603, USA
Tel: +1 312 541 0567
Fax: +1 312 541 0573
E-mail: carly@corcexpo.com

Exhibition Opening Times:

23 October 2012	9.30-17.30
24 October 2012	9.30-17.30
25 October 2012	9.30-17.30
26 October 2012	9.30-14.00



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EXHIBITION INFORMATION

Exhibitors' List*

2WIDE_SENSE EU Project	P35	B3IT	D11
5T	E60	BANNER Engineering Europe	P1
A1 Telekom Austria AG	E10	BLIP Systems A/S	F61
A3PS - Austrian Agency for Alternative Propulsion Systems	E10	BMIA	E32
ADASIS Forum	E41	BMW Group	C10
ADM Concept	D40	Bordeaux 2015	E32
AGES International	D61	Bro- og Tunnelselskapet AS	A60
Aisin AW Co. Ltd.	B60A	BYLOGIX	E60
Aisin Seiki Co. Ltd.	B60	c.c.com Andersen & Moser GmbH	E10
AIT Austrian Institute of Technology	E10	CAMEA spol. sro.	A61
Alcatel-Lucent	A62	Car2Road	D40
Alcohol Countermeasures Systems Corp	B65A	CEREMH	D40
Alpen-Adria-Universität Klagenfurt, Institut Für Intelligente Systemtechnologien	E10	CETE Sud Ouest	E32
AMEC URBIS	E52	CHAPS	E80
AMV Networks GmbH	E10	Citilabs	A74
ANDATA GmbH	P25	Citilog	P23
ARH Inc.	D70	Clever Devices	B65A
Aselsan	D63	Commend International	E10
ASFINAG - Autobahnen- und Schnellstrassen-Finanzierungs-Aktiengesellschaft	E10	Connect Baltica MTU	A60
Atos	A70	Connekt Lean and Green Programme	F50
ATTC - Austrian Traffic Telematics Cluster	E10	CROSS	E80
Aussenwirtschaft Österreich	E10	CS ITS	P11
Austrian Ministry of Transport, Innovation and Technology	E10	CTU Prague, Faculty of Transportation Sciences	E80
Austrian Mobile Power - Verein Für Elektromobilität	E10	Cubic Transportation Systems Ltd	B30
Austrian Standards Institute/ON Österreichisches Normungsinstitut	E10	Delcan Corporation	B65A
AustriaTech	E10	DENSO Corporation	B50
Austro Control GmbH	E10	Deutschland Group	B35
Autostrade Tech	E60	Dirección General de Tráfico	P34
Autotalks	P24	Droste Consult	B45
Autumn	E60	Dublin 2013	E31
Axis Communications GmbH	F71	Dutch Integrated Testsite Cooperative Mobility	F50
		Dynalogic	D40
		EBE Solutions GmbH	E10

EXHIBITION INFORMATION

EBTS	D40	Honda Motor Co. Ltd.	A31
eCoMove	D31	Huawei Technologies Co. Ltd	A30
Econolite	B65	Ibeo Automotive Systems GmbH	B75
EFKON AG	B11	IBI Group	B65A
Egis	D52	IBI Group (UK)	D71
ELDOTO	E80	IBM	C70
Ericsson AB	D11/A73	iCar Support Project	C30
EROAD	E70	ICEX España Exportacion e Inversiones	E52
ERTICO – ITS Europe	D30	IFSTAR	D51
Esri	A72	IHI Corporation	B10
ETSI	P32	Image Sensing Systems Europe	D71
European Commission	C20	ImmerVision Inc.	B65A
Famas System S.p.A.	E60	Imtech Traffic & Infra	F50
FEEL Management-Service GmbH	E10	INDUCT	D40
FH OO Oberosterreich	E10	INNOVAMETALL Stahl - und Metallbau Ges.m.b.H	E10
FH JOANNEUM	E10	InnovITS Advance	D71
FLIR Commercial Systems BV	P38	INRIX	B71
Forum for Innovationer Inom Transportsektorn	D11	Institute for Traffic Telematics, Dresden University of Technology	B35
Forum8 Co. Ltd.	A40	Intempora S.A.	D40
Fraunhofer ESK	B35	Intercomp	P30
Fujitsu Ltd	A50	International Road Dynamics Inc.	B65
G. Lufft Mess- und Regeltechnik GmbH	F70	International Road Federation	B70
GEOLOC System	E32	Intertraffic (Rai Group)	P39
German Aerospace Center – DLR	P34A	IPTE – Schalk & Schalk OG	E10
German Federal Ministry of Transport, Building and Urban Development	B35	ISMB – Instituto Superiore Mario Boella	E60
German Federal Ministry of Transport, Building and Urban Development – River Information Services	B35	Iteris, Inc.	B65
GEVAS Software	P6	i-Tour project	E60
Geveko ITS / A/S	F84	ITS America	B65
GEWI Europe GmbH & Co. KG Germany	P18	ITS Asia Pacific	E71
GIP.at / GIP.gv.at	E10	ITS Australia	E70
GoSwift	A60	ITS Austria	E10
Goudappel Group	F50	ITS Bretagne	D40
Groupe ARTELIA	D40	ITS Canada	B65A
HaCon Ingenieurgesellschaft mbh	B35	ITS China	C60
HBT Hamburger Berater Team GmbH	B45	ITS Dalarna	D11
Helsinki 2014	E30	ITS Denmark	F61
Heusch/Boesefeldt GmbH	B45	ITS Finland	E30
Highway Industry Development Organization – HIDO	B10	ITS France	D40/D51
HIKOB	D40	ITS Germany	B45
Hitachi, Ltd	A40	ITS Hessen	B35

EXHIBITION INFORMATION

ITS Info-communications Forum	A40	MOBIGIS	D40
ITS International	C61	Mott MacDonald	D71
ITS Japan	A40/B10	Mouchel Ltd.	D71
ITS Korea	E61	Mov'eo, French automotive cluster	D40
ITS Netherlands/Connekt	F50	Moxa Europe GmbH	P37
ITS Network Germany	B45	Multitoll Solutions SAS	D40
ITS Niedersachsen GmbH	B35	Nagasaki Prefectural Government	B10
ITS Norway	F61	Nast Consulting	E10
ITS Romania	P31	National Data Warehouse for Traffic Information	F50
ITS Spain	E52	Neavia Technologies	D40
ITS Sweden	D11	NAVTECH Radar	D71/D72
ITS the Swedish Way	D11	Neavia Technologies	D40
ITS United Kingdom	D71	NEC Corporation	A41
ITS Vienna Region / ITS Austria West	E10	Nederlands Organisation for Applied Scientific Research - TNO	F50
ITS&S Czech and Slovak	E80	NetPort. Karlshamm	D11
IT-TRANS 2014	P30a	Neurosoft	A60
JAI A/S	F61	NGO	D50
Joanneum Research Forschungsgesellschaft mbH	E10	NICTA (National ICT Australia)	E70
Kapsch TrafficCom AG	B20/E10/D11	Nivi Credit s.r.l.	P34
Kentkart	D60	Noptel Oy	P22A
KEON-A Information Technology Co. Ltd	E61	North Denmark Region	F61
Kerlink	D40	Norwegian Public Roads Administration	F61
Key IT Group	A60	NTT DATA Österreich GmbH	E10
Klima-und Energiefonds der Österreichischer Bundesregierung	E10	NXP Semiconductors Germany GmbH	C70
Kompetenzzentrum ViMOS at TU Dresden	B35	ÖAMTC - Österreichischer Automobil Motorrad- und Touringclub	E10
Korea Expressway Corporation	E61	ÖBB	E10
Laser Technology Inc	P33A	Orange Business Services	E51
LeddarTech	P3	OSI LaserScan	P17
LISTEC GmbH	B72	Österr. Rundfunk. Hitradio Ö3	E10
Logica UK Ltd.	E50	Österreichischer Gesellschaft für Strassen- und Verkehrswesen - GSV	E10
LOGMA sa CONSULTING	D40	Österreichischer Verkehrswissenschaftliche Gesellschaft - ÖVG	E10
Macq	D40	Panasonic Corporation	B40
Magneti Marelli	E60	Paris Region Economic Development Agency	D40
MARBEN	D40	PDTS GmbH / team GmbH	P22
Melbourne University	E70	Piemonte Agency for Investments, Export and Tourism	E60
Michelin Challenge Bibendum	P28	PIPS Technology Ltd	E82
Ministry of Land Infrastructure, Transport and Tourism	B10	PJ Messtechnik GmbH	E10
Ministry of Transport (Czech Republic)	B35	PLOT GmbH	E10
MIRA Limited	E81	Pluservice	E60
Mitsubishi Electric Corporation	B10	PRISMA Solutions EDV-Dienstleistungen GmbH	E10
Mitsubishi Heavy Industries Ltd.	A42		

Projekt Region Braunschweig GmbH	B35	Sumitomo Electric Industries, Ltd.	B10
Proxim Wireless Corporation	P33	SWARCO AG	D10/E10
PSA Peugeot Citroen	D51	Sweco Infrastructure	D11
PTV AG	P4	Swedish ITS Council	D11
Qatar Mobility Innovations Center - QMIC	P9	Swedish ITS Postgraduate School	D11
Q-Free ASA	F60	Swedish Public Transport Association	D11
Quebec Ministry of Economic Development, Innovation and Export Trade - MDEIE	B65a	Swiss Federal Roads Office - FEDRO	P26
Quercus Technologies	F52	TA Group Ltd.	A60
Rapp Trans	P27	TDC Systems Ltd.	A65
RealTraffic Technologies	B65A	Tec Magazine	P20A
RENAULT SAS	D51	Technische Universität Wien - Forschungsbereich für Verkehrsplanung und Verkehrstechnik	E10
Rijkswaterstaat	F50	Techspan Systems Ltd.	D71
Roads and Maritime Services	E70	Telekom Austria Group M2M	A63
Robert Bosch GmbH	A20	Telematics PRO e.V.	B35
ROPID - Regional Organiser of Prague Integrated Transport	E80	Telereal Telekommunikationsanlagen GmbH	E10
RTCA - Rail Technology Cluster Austria	E10	Telespazio	E60
RuggedCom Inc.	B65A	Telia, part of Telia Sonera Group	D11
SAAB AB	D11	The IET	D71
Samtrafiken	D11	The Swedish Transport Administration	D11
SatNav-Forum	B35	Theis Consult GmbH	B45
Schlothauer & Wauer	P19	Thinking Highways	P36
SCORE@F	D51	TISA - Traveller Information Services Association	E40
SELEX Elsag	P7	TNO	F50
Sensys Traffic AB	D11	Tokyo Metropolitan Government	B10
SES	D40	TomTom Global Content BV	P29
Shanghai Ruishi Machine Vision Technology Co. Ltd.	F82	TOPOS Aquitaine	E32
Sherlog Trace	E80	TOSHIBA Corporation	A40
SHERPA ENGINEERING	D40	Toyota Motor Corporation	A51
SICE	C62	Traffic Data Systems GmbH	A60
Sick Ag	A71	Traffic Information Austria VAO	E10
Siemens AG	A10	Traffic Technology International Magazine	P21A
SIEMENS Aktiengesellschaft Österreich	E10	trafficnow	A64
Signaal AS	A60	Traficon International N.V.	P15
SKIDATA AG	E10	TransCore	B65
SPIE	D40	Transport Research Centre - CDV	E80
Spirops	D40	TRL Limited	D71
SQLstream Inc.	P21	TSS - Transport Simulation Systems	P12
St. Poelten University of Applied Sciences	E10	T-Systems International GmbH	D80
Stockholm Business Region	D11	TTS Italia	E60
Streetline Inc.	P20	U.S. Department of Transportation	B65

EXHIBITION INFORMATION

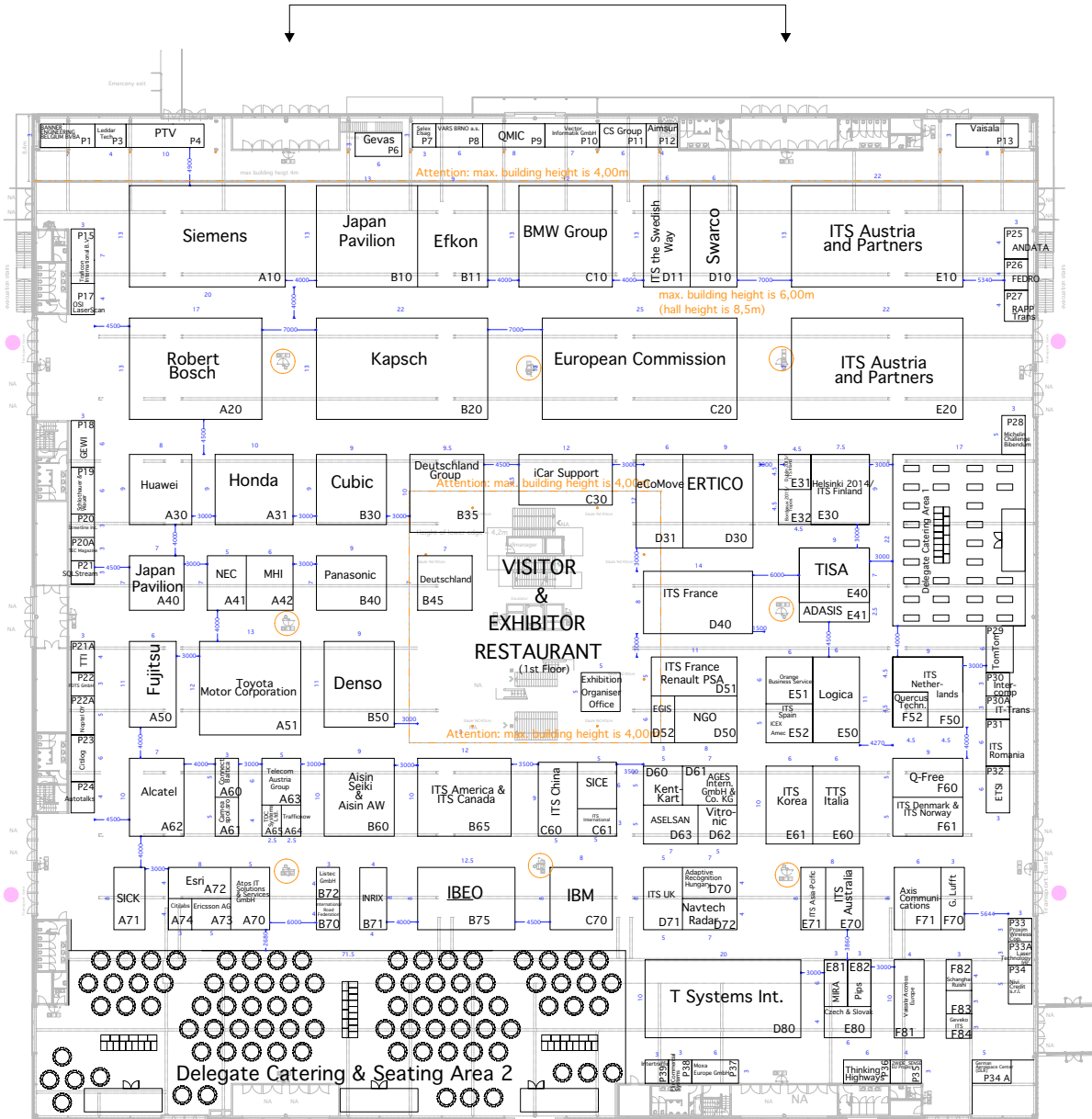
University of Applied Sciences Technikum Wien
 UTMS Society of Japan
 Vaisala
 Vaisala Across Europe - A Road Weather Technology Tour
 Valeo
 VARS BRNO a.s.
 Vector Informatik GmbH
 Vehicle Information and Communication System Centre
 Veriserve Corporation

E10 Via donau - Österreichische Wasserstrassen GmbH E10
 B10 VINCI Energies D40
 P13 Vinnova D11
 F81 VITRONIC Dr.-Ing.Stein Bildverarbeitungssysteme GmbH D62
 B75 Volkmann & Rossbach GmbH & Co KG B45
 P8 Volvo Group D11
 P10 Wavetronix, LLC B65
 B10 Wiener Linien GmbH & Co KG E10
 B10 WSP D11



19th ITS World Congress
Vienna, Austria
 22 to 26 October 2012
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HALL B



SPONSORS AND SPONSORSHIP OPPORTUNITIES



Kapsch TrafficCom as an international supplier of superior intelligent transportation systems (ITS) has its principle business in the development and supply of electronic toll collection (ETC) systems for the multi-lane free-flow (MLFF) of the traffic and the technical and commercial operation of such systems. The company also supplies traffic management systems. With more than 230 references in 38 countries in all five continents, Kapsch TrafficCom has positioned itself among the leading suppliers of ETC systems worldwide.



The Mobility Division of Siemens AG is the internationally leading provider of transportation and logistics solutions. With "Complete mobility", the Division is focused on networking the various modes of transportation in order to ensure the efficient and environmentally compatible transport of people and goods. "Complete mobility" combines the company's competence in operations control systems for railways and traffic control systems for roadways together with solutions for airport and postal logistics, railway electrification, rolling stock for mass transit, regional and mainline services, as well as turnkey systems and forward-looking service concepts.



SWARCO is a growing international group providing the complete range of road marking, signaling, signage and traffic management products, services and solutions. Headquartered in Wattens/Tyrol, SWARCO comprises 2800 employees in 80 companies in 20 countries that help their customers to manage mobility and increase traffic safety with high quality and environmentally friendly solutions. SWARCO is the world's number 1 in LED-based traffic signal production, the number 2 producer of glass beads to reflectorise road markings, and a turnkey solution provider in Intelligent Transport Systems and urban and interurban traffic management.



As the global leader in rail technology, Bombardier places environmental sustainability firmly at the top of the agenda. Products and services combine energy conserving technology with optimal safety, reliability and cost efficiency. The portfolio of rolling stock and services encompasses passenger vehicles for urban and mainline operations, locomotives, bogies, rail control solutions, propulsion and complete transportation systems, as well as vehicle modernisation and maintenance. Over 100000 vehicles in operation worldwide attest our unique strengths in project management and innovation, design and technology.



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Bosch innovations have helped define and shape cars throughout automotive history – and they always will. In their research Centres around the world, Bosch engineers develop products to make driving even safer, cleaner, and more economical. As the world's largest independent automotive supplier, Bosch delivers unparalleled expertise and quality – from systems and products for vehicle manufacturers, to engineering services and state-of-the-art diagnostics, through motorsport and a proving ground at Boxberg.



The AIT Mobility Department develops safe, efficient and green mobility solutions. It focuses on the development of future integrated vehicle concepts featuring electric drive concepts and lightweight construction technologies as well as on the optimising co-modal transport systems and improving transport infrastructure to increase safety and cost-efficiency. By focusing on emerging technologies, the Department supports industry partners in developing and, ultimately, commercialising their innovations successfully.



ASFINAG plans, finances, maintains and tolls the entire Austrian motorway and expressway network covering 2178 kilometres. This figure includes over 300 kilometres per direction in tunnels and some 300 kilometres per direction over bridges. The great amount of available traffic data enables the ASFINAG to provide the customers with high quality traffic information services over several different channels. Thereby it is possible to fetch actual as well as predictable information like traffic incidents, congestion, traffic jams, construction sites, weather information and other data at any time.



TomTom is a global supplier of location and navigation products and services. The company provides consumers and enterprise, government and automotive industry customers with digital maps, traffic intelligence, navigation software, PNDs, automotive systems, fleet management services, smartphone apps, fitness devices, POIs and speedcam intelligence. Headquartered in Amsterdam, TomTom has over 3500 employees and operates from 50 locations in 35 countries. TomTom (AEX: TOM2) is listed on NYSE Euronext.

SPONSORS AND SPONSORSHIP OPPORTUNITIES

Wiener Linien is a modern transport company that provides public transportation in Vienna including metro, tramway and bus. More than 8000 employees ensure quick and safe mobility for 2.3 million passengers a day. Compared internationally, Wiener Linien is a role model concerning range of services, safety, ticket pricing and customer satisfaction. These efforts are crowned with success as the new passenger record shows: 839 Million passengers used the public transports in 2010.



The comprehensive mobility service provider in Austria, ÖBB, provides environmentally friendly transportation of people and goods throughout the country. ÖBB is among the most punctual train services in Europe and offers its customers the highest punctuality in the EU. The company consists of 40800 members of staff (of which 37050 work in Austria, 3750 work abroad, and 1750 are still in training) and has a total yield of around 6.25 billion Euros, making the company a driving force in the country's economy. The strategic leader company of the group is ÖBB-Holding AG.



Wiener Zeitung is the oldest (founded 1703), still existing newspaper of the world, is owned by the Federal Republic of Austria, represented by the federal chancellery (editor). Wiener Zeitung is a full-value daily newspaper located in the prime segment of the Austrian newspaper market. Wiener Zeitung Ltd. owns subsidiaries out of the digital business segment e.g. auftrag.at Ausschreibungs-service GmbH that offers online solutions like lieferanzeiger.at, firmenmonitor.at and Wiener Zeitung Digitale Publikationen GmbH. E-government-services like help.gv.at as well as other traditional publishing-fields complete the range.



AVL is the world's largest privately owned company for development, simulation and testing technology of powertrains (hybrid, combustion engines, transmission, electric drive, batteries and software) for passenger cars, trucks and large engines. AVL develops and improves all kinds of powertrain systems and is a competent partner to the engine and automotive industry. In addition AVL develops and markets the simulation methods which are necessary for the development work. Engine Instrumentation and Test Systems comprise all the instruments and systems required for engine and vehicle testing. These activities of AVL include also contributions to realisation of Intelligent Transport Systems.



ITS Vienna Region was jointly created in 2006 by Austria's three Federal Provinces of Vienna, Lower Austria and Burgenland (Vienna Region). ITS Vienna Region supports the Federal Provinces in optimising their traffic management and e-government, is involved in research projects and has developed the new real-time traffic information service AnachB.at. AnachB.at offers intermodal journey planners for all means of transport and a dynamic traffic map free of charge at www.AnachB.at and as iPhone App. AnachB.at is continuously updated with the latest data provided by numerous partners. The data are the basis for comprehensive traffic maps which are applied to the new developed digital transport network GIP (graph integration platform).



Orange believes that the larger deployment of Intelligent Transport System and mainstream adoption of "connected cars" will embrace the challenges to sustainable mobility.

As a world's leader Telecom operator with a reach of 220 countries and territories, Orange delivers best-in-class m2m connectivity and cloud-based managed services, together with infotainment user-centric applications, advanced NFC solutions and smart payment for transportation. Orange can handle your complex projects while at the same time complying with regulatory requirements. Orange works actively with major players across the industry to thrive seamless and smarter mobility. Orange can help you enrich your customers' experience and drive revenue stream for your business.



via donau – Österreichische Wasserstrassen-Gesellschaft mbH – was established in 2005 by the Austrian Federal Ministry for Transport, Innovation and Technology. via donau is tasked with the maintenance and development of the Danube waterway and has become an internationally renowned and leading authority in waterway management in the Danube region. The 270 via donau employees use their expertise in various IWT-related fields such as navigation and logistics, flood protection and ecology to offer solutions and support that serve all actors on and along the Danube River. Beside strengthening inland waterway transport, via donau also shows that shipping and protecting Danube habitat need not be a contradiction.



SPONSORS AND SPONSORSHIP OPPORTUNITIES



Xerox is a World leader in transportation with annual revenue exceeding \$800 million. Key services include: Public Transportation (more than 100 million tickets every day); Road Tolling and Revenue Reconciliation (over \$4 billion a year); Photo Enforcement (over 1100 installations and 15 million violations processed annually); Both On-Street and Off-Street Parking Services (over 40% of the busiest airports in the USA use our solutions); Systems Integration and of course reliable, secure, adaptable back office solutions to serve clients and their customers. Xerox portfolio of services continues to grow as Xerox capitalizes on the innovative work of their dedicated research and development centers.

Official partners of the ITS World Congress 2012 in Vienna have several possibilities to present their companies to international experts and participants who are spearheading innovation in Intelligent Transport Systems.

The sponsorship packages offer both online and offline activities.

We offer four different sponsorship packages:

- Diamond Package
- Gold Package
- Silver Package
- Bronze Package

Furthermore, there exists the possibility to take part on the ITS World Congress 2012 with a Friend Package.

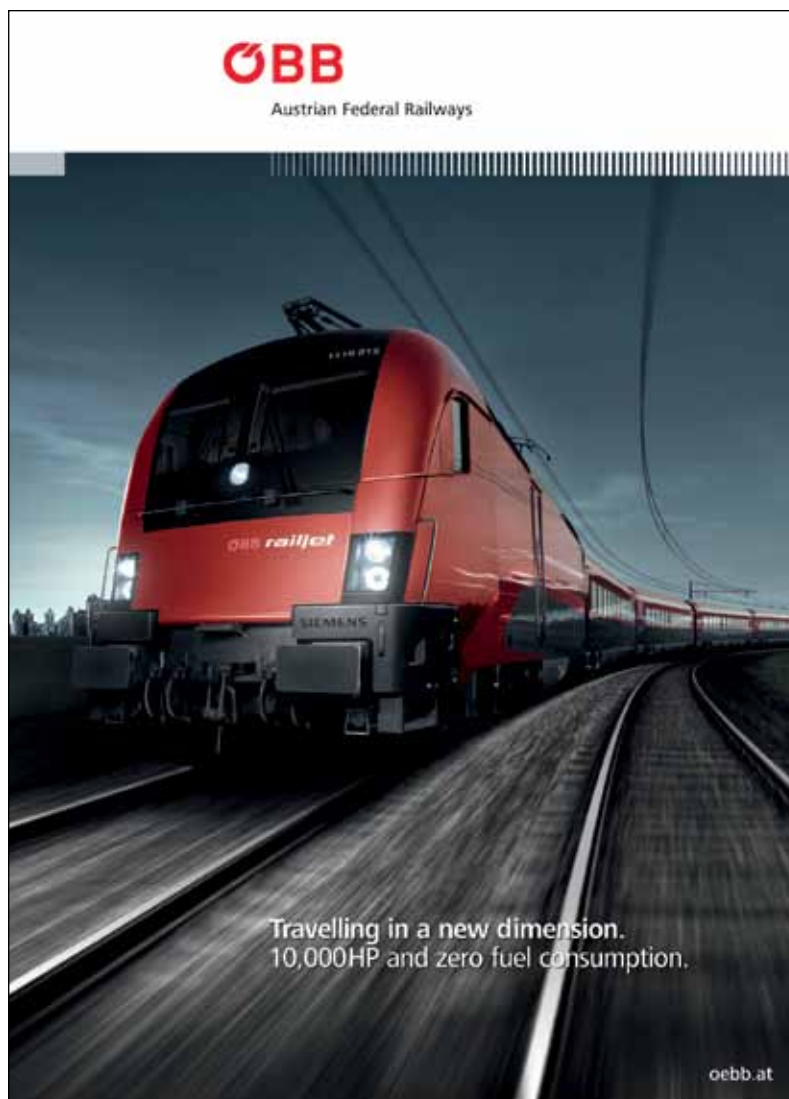
We are looking forward to welcoming you as a partner on the ITS World Congress 2012.

Do you have any questions? Please contact Daniela Kraft.

E-mail: daniela.kraft@austriatech.org

Phone: +43 1 2633444-44

Mobile: +43 676 6140077





GENERAL INFORMATION

Congress and Exhibition Venue

Messe Wien Exhibition & Congress Venue

Entrance: Foyer A, Exhibition Hall B & Congress Centre

Messeplatz 1, Postfach 277

A-1021 Vienna, Austria

Tel: + 43 1 727200

E-mail: congress@messe.at

Website: www.messecongress.at

One of the big advantages of the Messe Wien Exhibition & Congress Centre is its inner city location, which is certainly unusual but could not be better.

The centre also has excellent links with the airport, the motorway and rail networks.

Just 20 minutes by taxi from Vienna International Airport, it is sandwiched between the Prater park and the nearby Danube – an idyllic setting that is ideal for delegates to unwind between sessions.

A Viennese landmark, the Giant Ferris Wheel, is within easy walking distance. St. Stephen's Cathedral and the other attractions in the historic city centre are just a few minutes away by underground.

Travel Information

Travelling from/to the airports

Public transport systems operate from Vienna Airport (VIE) to Messe Wien Exhibition & Congress Centre. The Messe/Prater underground station is situated immediately outside the Main Entrance (Entrance A) to the ITS World Congress.

By bus

Special Congress buses run every 30 minutes (22 October, 23 October and 26 October). The buses are free for Congress delegates. More information is available at the infodesk at the Airport, but the ticket will be also integrated in the Congress Navigator, a special smartphone app developed for the 19 ITS World Congress. Please download the app before you visit Vienna. The free ticket is only valid together with a personal ID.

"Vienna Airport Lines" are free of charge and available for all visitors of ITS Vienna 2012 from 21 October till 26 October. The Airport Busses leave every 30 minutes and take 20 minutes.

The best line to "Messe Wien" is the Airport Bus to Morzinplatz. On arrival at Morzinplatz, take the tram line 1 in the direction Stefan-Fadinger-Platz. Get out at Schottenring and take the U2 line in direction Aspernstrasse, exit "Messe/Prater".

The free tickets are provided by the Austrian Railways ÖBB/Postbus.



By train

City train line S7: Take the city train line S7 in the direction Floridsdorf to the station "Praterstern". Change here to the underground line U2 in the direction Aspernstrasse, and get out at the next stop, "Messe/Prater". Trains run every 30 minutes. Travelling from/to the airport with the City Train Line costs €4 one way.

CAT "City Airport Train": Take the City Airport Train (CAT) to the final destination "Landstrasse/Wien Mitte". From there, take the underground line U4 in the direction Heiligenstadt and get out at "Schottenring". Change to underground line U2 in the direction Aspernstrasse, and get out at "Messe/Prater". The City Airport Train takes you non-stop from the airport to the heart of Vienna in only 16 minutes. Trains run every 30 minutes. Single journeys to the city centre cost €11 and return fares €17.

Visit www.cityairporttrain.com for further details.

Taxis

A number of taxi companies will be able to drive you from the airport to the city centre or the Messe Wien Exhibition & Congress Centre. A taxi from the airport to city centre or Congress Centre takes around 15 minutes and costs approximately €35. Most taxis accept credit or debit cards but do check this beforehand.

Useful Taxi Telephone Numbers: + 43 1 40100
+ 43 1 31300
+ 43 1 60160

Travelling from/to the train stations

Meidling Station

Take city train line S2 in the direction Floridsdorf to "Praterstern", and change to the underground line U2 in the direction Aspernstrasse, and get out at "Messe/Prater".

Westbahnhof Station

Take the underground line U3 in the direction Simmering to "Volkstheater". Change to the U2 in the direction Aspernstrasse, and get out at "Messe/Prater".

Praterstern Station

Take the underground line U2 in the direction Aspernstrasse one stop, and get out at "Messe/Prater".

Travelling around Vienna and to/from Messe Wien Exhibition & Congress Centre

All ITS World Congress delegates will be offered a free travel pass throughout the duration of the Vienna Congress. These travel passes will be distributed at infodesks at the Airport and the main train stations (Westbahnhof and Meidling). The travel passes for delegates are also integrated in the Congress Navigator, a special smartphone App developed for the 19th ITS World Congress.

The free tickets for delegates are provided by Wiener Linien.



Public Transport

Wiener Linien is a modern transport company that provides public transportation in Vienna including underground, trams and buses.

Non-delegates can buy travel cards and single tickets/ re-paid single tickets in advance via the website at www.wienerlinien.at. Single tickets are priced from €2 and weekly tickets are priced from €15.

U2 Underground Line "Karlsplatz – Aspernstrasse"

For the Messe Wien Exhibition & Congress Centre, take the U2 underground line "Karlsplatz – Aspernstrasse". The ideal stop for Entrance A and Congress Centre is the station "Messe/Prater".

Bus Line 11A "Heiligenstadt – Krieau"

Get off at station "Krieau" and follow signs for Entrance A.

Bus Line 80B "Kaiserebersdorf – Krieau"

Get off at station "Krieau" and follow signs for Entrance A.

GENERAL INFORMATION

By road

GPS

1020 Vienna, Ausstellungstrasse, Messeplatz 1.

From the south

Südbahn A2 – Südosttangente A23 in the direction of Praha/Brno – exit Handelskai/Messezentrum

From the east (Wien-Schwechat Airport)

Ostautobahn A4 – Südosttangente A23 in the direction of Praha/Brno – exit Handelskai/Messezentrum

From the west

Westautobahn A1 until the motorway junction at Steinhäusl – Aussenringautobahn A21 until the motorway junction at Vösendorf – Südosttangente A23 in the direction of Praha/Brno – exit Handelskai/Messezentrum

From the north

Donaufertautobahn A22 until the exit for Reichsbrücke (direction Zentrum) – after the bridge turn left at the first traffic light into Vorgartenstrasse and drive to the junction with Ausstellungstrasse.

Parking

There is parking available at the multi-storey Car Park A – access via Praterstern – Ausstellungstrasse – Max-Koppe-Gasse or via Handelskai – Machstrasse – Ausstellungstrasse – Max-Koppe-Gasse. Cost per 1.5 hours is €3, additional 1.5 hours is €1. Cash and cash-free payment facilities are available at car park A and in the multi-storey car park A.



Congress Information

Banking at Messe Wien Congress Centre and Exhibition Venue

There is an ATM cash machine situated in Mall of Messe Wien. This ATM can be used to withdraw Euros (€).

Congress language

The official language of the Congress is English. Translation into Chinese, German and Japanese will be provided at the Opening and Closing Ceremonies and the Plenary Sessions only.

Currency

The Euro (€) is the official currency in Austria.

Insurance & liability

By registering for and/or attending the Congress, the attendee agrees that, other than prescribed by law, neither ERTICO, AustriaTech, Hemming Group Ltd or Messe Wien will be held liable in any way whatsoever for any claim for injury or loss. Attendees are advised to obtain adequate medical, travel and personal insurance. Except with the prior written agreement of a Director of Hemming Group Ltd attendees must be over the age of 18 to be admitted to the Congress.

Internet access

There will be Wi-Fi available to all attendees in a designated zone within the Congress & Exhibition Centre. The Wi-Fi is sponsored by Kapsch.

kapsch >>>

GENERAL INFORMATION

Official event publications and website

The organisers are not liable for any changes that are made to the Congress programme. The Final Programme will be distributed at the event. Information will be updated on the event website at regular intervals. Please visit www.itsworldcongress.com for the most recent updates and changes.

Passport and visa requirements

Holders of an EEA (EU, Iceland, Liechtenstein and Norway) or Swiss passport do not require a visa.

Citizens of the following countries DO NOT need a visa for Austria (if your stay does not exceed 90 days and is for tourist purposes only): Albania (biometric passports only), Andorra, Antigua and Barbuda, Argentina, Australia, Bahamas, Barbados, Bosnia-Herzegovina (biometric passports only), Brazil, Brunei, Chile, Costa Rica, Canada, Croatia, El Salvador, Guatemala, Honduras, Hong Kong (SAR only) Israel, Japan, Macao, (RAE only), Malaysia, Mauritius, Macedonia (biometric passports only), Mexico, Monaco, Montenegro (biometric passports only), New Zealand, Nicaragua, Panama, Paraguay, Serbia (biometric passports only and NOT issued by Koordinacija Uprava), Seychelles, Singapore, St. Christophe and Nevis, Taiwan (all passports if they contain the holder's identity number), Uruguay, USA, Venezuela, Vatican. Source: www.bmeia.gv.at

Nationals of countries not listed above will need to obtain a visa to travel to Austria.

Invitation letters will only be issued once registration and payment in full as well as passport number have been received, no later than 24 August 2012. Invitation letters will be scanned and emailed and a copy will be sent by standard post.

For an invitation letter, please contact: Ms Rita Michlits, AustriaTech
Donau-City-Strasse 1 - 1220 Wien, Austria
Tel: +43 1 2633 444 43
E-mail: rita.michlits@austriatech.org

Security

Attendees are requested to wear their badge for admission at all times. This includes entry into the Congress sessions, Exhibition, all visits and the social programme. Please do not leave any coats or bags unattended. A cloakroom will be available.

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ITS Vienna - Hall B - Booth A20



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The International Programme Committee, on behalf of ERTICO, ITS America and ITS Japan, would like to convey a heartfelt thanks to all those who dedicated time and effort in reviewing and selecting papers and preparing the programme.

ERTICO - ITS Europe would like to express its hearty gratitude for their great work to all the people involved in the committees without whom this Congress would not be organised.

The ITS World Congress 2012 Rapporteurs Team

The Congress Conclusions, including sessions full summary by rapporteurs, will be published after the congress, providing an interesting record of the state of the art of ITS.

Chief Rapporteur: Eric Sampson, ERTICO – ITS Europe

CONGRESS TOPICS	EUROPE	AMERICAS	ASIA-PACIFIC
1 – Optimising provision and use of Infrastructure, Traffic and Travel Data and Information	Prof. Risto Kulmala (FTA)	Mr Richard B. Easley (E-Squared Engineering)	Prof. Takashi Oguchi (The University of Tokyo)
2 – Intelligent infrastructure	Ms Malika Seddi (ASFA)	Mr Joerg Rosenbohm (ITS America)	Prof. S.K. Jason Chang (National Taiwan University)
3 – Continuity and Interoperability of Seamless Multimodal Services for Mobility	Mr Martin Boehm (AustriaTech)	Ms Carol L. Schweiger (TranSystems)	Dr. Young Jun Moon (KOTI)
4 – Integrated Safety and Security for all Users	Dr. Alan Steven (TRL)	Prof. C. Michael Walton (Texas University)	Mr. Brian Negus (ITS Australia)
5 – Connected Vehicles, Infrastructure and Users for Cooperative Mobility Services	Dr. Stéphane Petti (Orange)	Mr John J. Funny (Grice Consulting Group)	Mr. Koji Ukena (UK Consultant)
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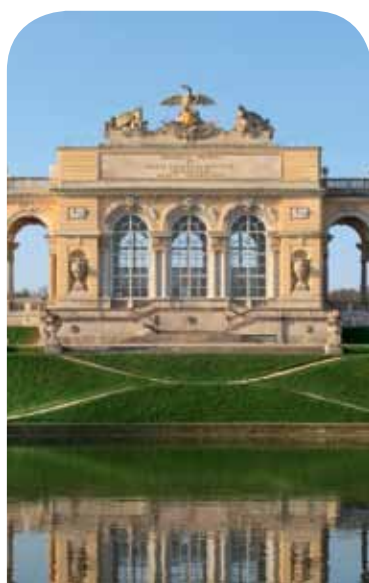
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ERTICO – ITS Europe is the network of Intelligent Transport Systems and Services stakeholders in Europe. ERTICO connects public authorities, industry players, infrastructure operators, users, national ITS associations and other organisations together. It facilitates the safe, secure, clean, efficient and comfortable mobility of people and goods in Europe through the widespread deployment of ITS. The ERTICO vision is to bring intelligence into mobility.

The **European Commission** represents the general interest of the EU and is the driving force in proposing legislation (to Parliament and the Council), administering and implementing EU policies, enforcing EU law (jointly with the Court of Justice) and negotiating in the international arena.

The **Intelligent Transportation Society of America** (ITS America) is the leading advocate for technologies that improve the safety, security and efficiency of the nation's surface transportation system. Members include private corporations, public agencies, and academic institutions involved in the research, development and design of Intelligent Transportation Systems technologies that enhance safety, increase mobility and sustain the environment.

ITS Japan is a non-profit organisation and consists of representatives from industry, private business corporations, ITS-related organisations, and academia.

Working together with the ITS-related government ministries and agencies, ITS Japan promotes research and development and the deployment of ITS.

ITS Japan also serves as a secretariat for **ITS Asia-Pacific**.

The **Federal Ministry of Transport, Innovation and Technology** (bmvit) is committed to providing a safe, environmentally friendly and efficient transport system in Austria. A high priority in this respect is counteracting the negative impact of traffic using technology and innovation. Major progress has already been achieved through synergies across different modes of transport. Events such as the 19th ITS World Congress drive the world to rise to the challenge of integrated transportation capitalising on the benefits of new technologies.

AustriaTech is an agency for Intelligent Transport Systems and Services (ITS). The company is set up by the Austrian Ministry of Transport, Innovation and Technology (bmvit), and is responsible for promoting the deployment of ITS in Austria and further afield. The long-term goal of the company is to make traffic safer, more efficient and more environmentally friendly, while keeping the societal implementation of new technologies in traffic and transport in Austria in the centre. Under the motto «Smart Mobility for Austria», AustriaTech's activity is based around the intelligent modernisation of the Austrian transport and mobility systems. AustriaTech's vision is to create a modern, efficient and affordable mobility system.

The **ITS Austria** platform was initiated by the Austrian Federal Ministry of Transport, Innovation and Technology (bmvit) to provide possibilities for networking and developing cooperation for stakeholders involved in Intelligent Transport Systems (ITS). The target of ITS Austria is to bring together representatives from different organisations and to ensure the collaboration of different areas such as policy, infrastructure operators, industry, and research and development to define comprehensive solutions for the Austrian transport system.

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