Colas paves the way... to sustainability.

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A great number of innovations help support this drive for sustainable development. For example, roads reveal silence with Nanosoft and nature with Vegecol, they cut energy consumption with 3E asphalt mixes and reduce greenhouse gas emissions with Vegeflux.

This is how Colas is opening up new paths, making roads more environmentally-friendly and more people-friendly too.

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Welcome

On behalf of the International Road Federation, we are delighted to welcome you in Portugal for the 16th IRF World Meeting. This landmark international gathering is convened in Lisbon around the theme ‘Sharing the Road’. Lisbon - the starting point of so many of the great voyages of discovery that have opened up our modern world - provides an apt venue to address challenges that will shape the communications and transport networks of the 21st century.

Just as roads have marked the great advances of Portuguese civilization in the past, so they must continue to drive economic, social and environmental progress as we work together to confront the new imperatives of a rapidly changing world. The 16th World Meeting will bring together the world’s foremost experts and industry representatives to develop and define dynamic strategies that respond equitably and sustainably to the evolving needs of all stakeholders. Sharing our roads, means reconciling the needs and aspirations of the industrial world with those of developing nations. It means planning infrastructure that balances rapid and efficient commerce with the fundamental need to ensure safe, viable and nuisance free surroundings for urban and rural dwellers alike. It involves responding to modern demands for freer and cheaper mobility with new cost and energy efficient materials and technologies. Above all, it calls for us to develop our industry in harmony with growing environmental awareness and the finite resources of our increasingly fragile planet.

In all these aspects, the 16th World Meeting will provide a unique forum for sharing cutting edge ideas and innovative solutions. It will be the starting point of a new voyage of discovery from Lisbon - towards shared roads for the future wellbeing and prosperity of our planet. Welcome in Lisbon and we hope you have a successful meeting!

Ricardo Oliveira, Chairman of CRP

Emanuel Maranha das Neves, Chairman of ERF and Chairman of the 16th IRF World Meeting

Jean Beauverd, Chairman of IRF Geneva

Brian Harris, Chairman of IRF Washington

Jean-Claude Roffé, Chairman of the Technical Committee and Steering Committee of the 16th IRF World Meeting

Sponsors

The organizing committee of the 16th International Road Federation World Meeting 2010 would like to thank the following companies and organizations for their contribution:

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Innovation has good prospects whenever it is cleaner, safer and more efficient.

The new MICHELIN® ENERGY™ SAVER tire saves almost 0.2 l of fuel for every 100km* covered, i.e. CO2 emissions cut by 4g per km*. With this tire you can cover 40% more km* and, on wet surfaces, its braking distance is under 2.40m*. This tire has the GREEN X label for MICHELIN tires that are particularly fuel efficient.

* Compared to the tires of competitors’ major brands, ISO test conducted by TÜV SÜD Automotive in 2007 on the dimensions 175/65 R14, 195/65 R15 and 205/55 R16.

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Badges
All delegates, speakers, accompanying persons, exhibitors, and visitors are kindly requested to wear their name badges at all times. Admission to the conference is restricted to participants wearing delegates, speakers, VIP and Press badges only.

Business Centre
Lisbon Congress Centre offers a multifunctional Business Centre. It can be found at foyer C. All necessary services are available: telephone, telefax, copying and mailing.

Conference languages
Official conference languages are English, French and Spanish. Simultaneous interpretation in these languages are available in all plenary and workshop Sessions. Please refer to the conference programme. The opening ceremony is also simultaneously translated into Portuguese.

Coffee & tea
Coffee and tea will be served free of charge to delegates, exhibitors and speakers wearing their name badges, during coffee breaks. Coffee & tea will be served in the exhibition area, ground floor.

Exhibition
The exhibition is located at Pavilions 1 & 2, ground floor.

Exhibition hours
- Tuesday 25 May: 12.00 – 20.00
- Thursday 27 May: 8.30 – 18.30
- Wednesday 26 May: 8.30 – 18.30
- Friday 28 May: 8.30 – 15.00

Internet café sponsored by Eurovia
The internet café, sponsored by Eurovia is located in Pavilion 1. All exhibitors and delegates are welcome to use its facilities.

First aid
The first aid unit can be found in Pavilion 1 during the whole congress.

Organiser room
The IRF organiser room is located on the 1st floor, room 1.11.

Lost and found
For lost and found objects, please approach the security desk located in Foyer C.

Lunches
Lunch will be served for registered delegates and speakers. The lunch areas, inside the pavilions are strictly for those with delegates, exhibitors and speakers name badges only.

Press room
The Press Center is located room 1.12.

Programme changes
The programme is correct at the time of printing; however, the organizer cannot assume liability for any changes in the programme due to external or unforeseen circumstances. The organizer reserves the right to alter the programme if and as deemed necessary.

Registration desks
The registration desk is located in the Foyer C, ground floor, at the entrance of Pavilion 2. The registration desk will be open on the following dates and times:
- Monday 24 May: 8.00 – 19.00
  Exhibitors registration
- Tuesday 25 May: 8.00 – 18.30
  Exhibitors/Delegates/Speakers/
  Accompanying persons registration
- Wednesday 26 May: 8.00 – 18.30
  Exhibitors/Delegates/Speakers/
  Accompanying persons registration
- Thursday 27 May: 8.00 – 18.30
  Exhibitors/Delegates/Speakers/
  Accompanying persons registration
- Friday 28 May: 8.00 – 15.00
  Exhibitors/Delegates/Speakers/
  Accompanying persons registration

Speakers’ Centre
A Speakers’ Centre is available for speakers to review and submit their presentations. This centre is located at room 1.13, on the 1st floor, and is open at 8.00 from 24th to 28th May.

Shuttle buses
Shuttle buses to and from the official hotels will be provided free of charge to participants.

Tour information
Information on post-congress tours operated by Top Atlântico is available from this travel agency the welcome desk in Foyer A, ground floor.
Technical Committee

Its members have completed the tasks which mainly consist of: setting up the themes, review of all technical papers, preparing the pre-programme of the congress, electing the papers, setting up the programme of the congress, advising for organisation of parallel thematic sessions, advising for election of moderators and invited speakers, promoting the congress to potential sponsors and participants.

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**Theme 1: Mobility, Transport & Infrastructure**

**Leader:**
Claude Cham, *URF, France*

**Members:**
Bryce Conrad, *Transport Canada, Canada*
Ray Fisher, *Roads Australia, Australia*
Moriyasu Furuki, *Japan Road Association, Japan*
Patrick Oliva, *Michelin, France*
Capucine du Riveau, *URF, France*
Jorge Silva, *IMTT, Portugal*
José Manuel Viegas, *IST, Portugal*
Aniceto Zaragoza, *Olicemen, Spain*

**Theme 2: Road Safety & Security**

**Leader:**
Luca Felappi, *ArcelorMittal, Belgium*

**Members:**
Jean Bloch, *L.I.E.R., France*
Josef Czako, *Kapsch Telematics, Austria*
Jens Hugel, *IRU, Switzerland*
David Jones, *Britpave, United Kingdom*
Gilbert Konzett, *Kapsch Telematics, Austria*
Carlos Lopes, *ANSR, Portugal*
António Macedo, *LNEC, Portugal*
Joseph Marra, *ArcelorMittal, Belgium*
Carl Mc Collum, *Swarco Holding, Austria*
Rik Nuyttens, *3M, Belgium*
José F. Papi, *PTC, Spain*
Alexander Swarowski, *Swarco Holding, Austria*
Bernd Wolfgang Wink, *Volkman & Rossbach, Germany*

**Theme 3: Sustainable Roads**

**Leader:**
Elena de la Peña, *Asociación Española de la Carretera, Spain*

**Members:**
Jacques Bonvallet, *Fayat, France*
Ray Fisher, *Australian Road Forum, Australia*
Alberto Garrido, *APPC, Portugal*
Jean-Louis Marchand, *Eurovia, France*
Paul Nordergen, *South African Road Federation, South Africa*
Juan José Potti, *ASEFMA, Spain*
Luc Rens, *FEBELCEM, Belgium*
João Teles, *APA, Portugal*
Susanna Zammataro, *IRF Geneva, Switzerland*

**Theme 4: Road Finances & Management**

**Leader:**
Jaakko Rahja, *Finnish Road Association, Finland*

**Members:**
Michel Demarre, *FNTP, France*
Ansgar Kauf, *Inovia, Austria*
Dimitris Mandalozis, *Attica Tollway Operations Authority, Greece*
Rui Manteigas, *Estradas de Portugal, Portugal*
Juan Rodriguez de la Rubia Lopez, *Abertis, Spain*
N.K. Sinha, *ICT Pvt Ltd., India*
Caroline Visser, *IRF Geneva, Switzerland*
Max Vondevivere, *Vinci, France*

**Theme 5: Techniques & Innovations**

**Leader:**
Christine Leroy, *USIRF, France*

**Members:**
Alberto Bardesi, *Repsol, Spain*
Edgar Barriga, *Barriga Dall’Orto SA, Peru*
Rui Camolino, *ITS, Portugal*
Joaquín Cosmen, *GMV, Spain*
Joseph Czako, *Kapsch Telematics, Austria*
Antonella Difazio, *Telaspace, Italy*
Carlos Jofré Ibañez, *IECA, Spain*
Joël Malabat, *Aximum, France*
José F. Papi, *PTC, Spain*
Jeffrey R. Reed, *Valley Slurry Seal Co. Inc., USA*
Carlos Santinio Horta, *Estradas de Portugal, Portugal*
Honorary Committee

- President of the Portuguese Republic – Aníbal Cavaco Silva
- Minister of Public Works, Transport and Communications – António Mendonça
- Minister of State and for Foreign Affairs – Luís Amado
- Minister of Internal Administration – Rui Pereira
- Minister of Environment and Spatial Planning – Dulce Pássaro
- Minister of Economy, Innovation and Development – José Vieira da Silva
- Minister of Science, Technology and Higher Education – José Mariano Gago
- Mayor of Lisbon – António Costa
- Vice - Minister of Public Works and Communications – Paulo Campos
- Regional Secretary of Social Equipment of the Government of the Autonomous Region of Madeira – Luís Santos Costa
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- President of EP – Estradas de Portugal, S.A. (Portuguese Road Administration) – Almerindo Marques
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- President of LNEC – Laboratório Nacional de Engenharia Civil (National Laboratory for Civil Engineering) – Carlos Matias Ramos
- President of ANA – Aeroportos de Portugal, SA (ANA – Portugal Airports, SA) – António Guilhermino Rodrigues
- President of ANSR – Autoridade Nacional de Segurança Rodoviária (National Authority for Road Safety) – Paulo Marques Augusto
- President of APA – Agência Portuguesa do Ambiente (Portuguese Environment Agency) – António Gonçalves Henriques
- President of Turismo de Portugal - I.P. (Tourism of Portugal) – Luís Patrão
- President of Ordem dos Engenheiros (Portuguese Association of Engineers) – Carlos Matias Ramos
- President of Academia de Engenharia (Engineering Academy) – Carlos Salema
- President of the Founders Council of CRP (Portuguese Road Centre) – António Mota
- Vice-President of the Founders Council of CRP (Portuguese Road Centre) – Vasco de Mello
- President of APCAP – Associação Portuguesa das Sociedades Concessionárias de Auto-estradas ou Pontes com Portagens (Association of Portuguese Concession Companies of Toll Motorways or Bridges) – João Bento
- President of ASCAS – Associação das Sociedades Concessionárias de Auto-Estradas SCUT (Association of SCUT Motorways Concession Companies) – Vítor Santos
- President of APPC – Associação Portuguesa de Projectistas e Consultores (Portuguese Association of Engineering and Management Consultants) – Victor Carneiro
- President of Fundação Calouste Gulbenkian (Calouste Gulbenkian Foundation) – Emílio Rui Vilar
- President of ACP – Automóvel Club de Portugal (Portuguese Auto Club) – Carlos Barbosa
## Themes and Workshops

### Theme 1 – Mobility, Transport & Infrastructure

| 1.1 | Education & Training |
| 1.2 | Benefits and costs of roads |
| 1.3 | Public road policy |
| 1.4 | Round Table - Tunnel Management |
| 1.5 | Mobility and vehicles concept |

### Theme 2 – Road Safety & Security

| 2.1 | Accidentology, Statistics, Drivers behaviour |
| 2.2 | Road markings, Signs and Visual devices |
| 2.3 | Road Management and regulations for safety |
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| 2.5 | Round Table - Workzone Safety |
| 2.6 | Cost-effective solutions and Original solutions in Developing and Developed Countries |
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| 2.8 | Vulnerable Road Users |
| 2.9 | Road design for safety |

### Theme 3 – Sustainable Roads

| 3.1 | Climate Change Challenge |
| 3.2 | Energy and Resources Saving: applications |
| 3.3 | Use of By-Products for sustainable roads |
| 3.4 | Energy and Resources Savings: research |
| 3.5 | Environmental Management and analysis |
| 3.6 | Environmental Management (including Noise mitigation) |
| 3.7 | Round Table - Responsible development |
| 3.8 | Round Table - Ecology, Ergonomics, Evolution, Economy are the Manufacturers’ key drivers. |

### Theme 4 – Road Finances & Management

| 4.1 | PPP for Urban Road Network |
| 4.2 | Road Asset Management and Production Systems (I & II) |
| 4.3 | Innovations in PPP |
| 4.4 | Road Financing Policy |
| 4.5 | Road Maintenance Management |
| 4.6 | Portuguese PPP cases - Lessons from the last 20 years |

### Theme 5 – Techniques & Innovations

| 5.1 | New techniques of soil-rock mixtures, roadbases, subbases |
| 5.2 | Innovation in quality control |
| 5.3 | When green rating improves the technical approach |
| 5.4 | New developments in prediction of behaviours |
| 5.5 | Innovation in assistance systems |
| 5.6 | Innovation in ITS policy |
| 5.7 | ITS – The Bridge to a Future of Sustainable and Green Mobility |
Day One - Tuesday 25 May 2010

8.30 – 10.00
IRF Washington Board Meeting

9.00 – 11.00
ERF Plenary Assembly

10.00 – 12.00
IRF Geneva General Assembly

10.15 - 12.00
IRF Washington General Assembly

12.00 – 13.00
Opening of the exhibition
Pavilions 1 & 2

13.00 – 14.00
Porto de Honra
Sponsored by IMTT

14.00 – 16.00
Opening Ceremony
Auditorium I
Opening Ceremony chaired by António Mendonça, Portuguese Minister of Public Works, Transport and Communication

Welcome address:
Ricardo Oliveira, President of the Portuguese Road Centre (Centro Rodoviário Português)
Emanuel Maranha das Neves, President of the Congress and President of the European Road Federation

Inaugural address:
Anne-Marie Leclerc, Deputy Minister and Deputy Director of Transport for Quebec, Canada & President of the World Road Association (PIARC).
Marc H. Juhel, World Bank, Acting Director of Energy, Transport and Water
Mr. Kamal Nath, Minister of Road Transport & Highways, Transport Bhawan, India

Abdullah Al-Mogbel, Deputy Minister of Transport, Kingdom of Saudi Arabia, IREF Vice-Chairman and ITA-CET Foundation Chairman
High Representative from Ministry of Transport, Spain
Under the High Patronage of Aníbal António CAVACO SILVA, President of the Republic of Portugal.

Entertainment:
Mafalda ARNAUTH – fado

Presentation of Dr Mino Award of Excellence

16.00 – 16.30
Coffee Breaks & Posters
Pavilions 1 & 2

16.30 – 17.30
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Auditorium I
Susan MARTINOVICH (Nevada DOT, AASHTO Vice-President)
Jean-Luc MATÉ (Continental Automotive)
Ari VATANEN (MPE)
With recorded interview of Jack SHORT (ITF)

17.30 – 18.30
Plenary Session – Theme 2
Auditorium I
Antonio AVENOSO (ETSC)
Karla GONZALEZ (IADB, Inter-American Development Bank, on Road Safety Initiatives in Latin-American and Caribbean countries)
Anthony KANE (AASHTO)
With recorded interview of Jack SHORT (ITF)

18.30 – 20.00
Welcome Reception
Pavilions 1 & 2
Sponsored by Colas
BEM-VINDO AOS AEROPORTOS DE PORTUGAL
WELCOME TO THE AIRPORTS OF PORTUGAL
Day Two - Wednesday, 26 May 2010

8.30 – 9.30
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Auditorium I
Jacobo DIAZ (AEC)
Jean-Louis MARCHAND (USIRF)
Francisco NUNES CORREIA (IST Lisbon)

9.30 – 10.30
Plenary Sessions: Theme 4
Auditorium I
Michel DEMARRE (EIC)
Koji HASEGAWA (Metropolitan Expressway Company Limited)
Andreas KOPP (World Bank)
Alberto MORENO (INIR)

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Coffee Break sponsored by ANSR

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Convenor: João CARDOSO (LNEC)

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25 RESILIENT MODULUS BASED INVESTIGATION TO EVALUATE A NEW ACTIVATOR FOR PFA IN SLIGHTLY BOUND ROAD BASE MATERIAL CONTAINING HIGH WASTE QUARRY DUST
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Masoud NADERNEJAD, Mashhad Transportation and Traffic Organization, Iran

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**Auditorium II**

President: John TOBIN (3M)
Moderator: Carl McCOLLUM (Swarco)

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Carlos ALMEIDA ROQUE, Aclive, Ltda., Portugal

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Xavier BRICOUT, Aximum Road Marking, France

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Kris BRIJS, Hasselt University, Belgium

460 **VEHICLE TYPE AND ENGINE POWER AS FACTORS AFFECTING DRIVERS’ RISK PERCEPTION OF THE GEOMETRIC CHARACTERISTICS OF ROAD NETWORK**
Nikolaos ELIOU, University of Thessaly, Greece

535 **DYNAMIC DEVICE FOR AUTOMATIC AUSCULTATION OF TRAFFIC SIGNALS BY COMPUTER VISION**
Emiliano MORENO LÓPEZ, 3M España, S.A, Spain

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President: Ana Cristina MARTINS (EP)
Moderator: Christine LEROY (EAPA)

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Yves BROSSEAUD, LCPC, France

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Eric VAN DEN KERKHOF, Colas Belgium, Belgium

142 **LOW ENERGY & LOW EMISSION ASPHALTS FOR SUSTAINABLE ROAD CONSTRUCTION**
François OLARD, Eiffage Travaux Publics, France

144 **VERY HIGH RECYCLING RATE (UP TO 70%) IN HOT MIX AND WARM MIX ASPHALTS FOR SUSTAINABLE ROAD CONSTRUCTION**
François OLARD, Eiffage Travaux Publics, France

148 **BELUGA, A MINI HYPER-MOBILE HOT MIX PLANT, PRODUCES ASPHALT WITH VEGECOL® BINDER**
Jacques BONVALLET, Fayat, France

149 **AN INNOVATIVE HIGH-RATE CONTINUOUS RECYCLING SOLUTION, APPLICABLE TO HOT-MIX AND LOW TEMPERATURE ASPHALT CONCRETE**
Jacques BONVALLET, Fayat, France

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Xavier CARBONNEAU, Colas, France
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345 WARM MIX ASPHALT WITH ASPHA-MIN®
Stephan HARNISCHFEGGER

565 COLD IN-PLACE RECYCLING FOR HIGH PERFORMANCE ROADS
Nuria UGUET CANAL, Probita, Tecnología y Construcción, S.A., Spain

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Santiago Gil REDONDO, Ditecpea, Spain

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Auditorium III
President: N.K. SINHA (ICT)
Moderator: Jarkko NIITTYMÄKI (Ramboll Finland Oy)

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39 OWNERSHIP AND MANAGEMENT MODELS FOR INFRASTRUCTURE NETWORKS
Pekka PAKKALA, Helsinki University of Technology, Finland

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Jean POHU, EGIS, France

286 THE FUTURE OF INTELLIGENT ROAD
Steinar FURAN, Q-Free ASA, Norway

394 NATIONAL ROAD ASSET MANAGEMENT SYSTEM FOR THE KINGDOM OF SAUDI ARABIA
Hazim ABDULWAHID, Zuhair Fayez Partnership, Saudi Arabia

Theme 5: ITS – The Bridge to a Future of Sustainable and Green Mobility

Auditorium IV
President: Christophe NICODEME (ERF)
Moderator: Josef CZAKO (Kapsch Telematics)
Session sponsored by Kapsch TraffiCom

ITS Strategy Development:
Development of ITS Strategies. A generic approach to develop ITS policies and strategies. Phil Rowley (WSP Intelligent Transport Systems & Chair of the Sub-Committee “ITS Strategy Development of the IRF Policy Committee on ITS”)

ITS & Telematics Applications:
Electronic Toll Collection Systems as basis for value adding telematics applications. Peter Ummenhofer (Kapsch TraffiCom)

Satellite tracking and Radio Frequency Identification:
The opportunities of ITS for the Freight transport. Antonella Difazio (Telespazio)

Connecting vehicles and infrastructure:
Intelligent Road Infrastructure as integral part of ITS. Gino Franco (MIZAR Automazione, SWARCO Group)

ITS in Action in South Africa:
ITS Schemes in South Africa. Paul Vorster (ITS South Africa)

16.00 -16.30
Coffee Break & Posters

16.30 - 18.30
Workshops

Theme 1: 1.3 Public road policy
Auditorium I
President: José Manuel SILVA RODRIGUES (CARRIS)
Moderator: Susan MARTINOVITCH (Nevada DOT, AASHTO)
Convenor: Rosario ROCIO (InIR)

20 SAFETY INSPECTION UNDERTAKEN IN RESPECT OF SPANISH FOMENTO MINISTRY ROADS IN OPERATION
Roberto LLAMAS, Ministerio de Fomento, Spain

26 LOOKING INTO THE FUTURE: NEW CONCEPTS TO DEAL WITH TRAFFIC CONGESTION IN URBAN AREAS
Eangelas MATSOUKIS, University of Patras, Greece

401 DEVELOPMENT OF A ROAD SUB-SECTOR MEDIUM TERM EXPENDITURE FRAMEWORK (MTEF): LESSONS FROM A DEVELOPING COUNTRY
Farhad AHMED, I T Transport Ltd, United Kingdom

422 ACTUAL STATE AND THINKING ON BOT MODE FOR CONSTRUCTING EXPRESSWAY IN GUANGXI ZHUANG AUTONOMOUS REGION
Heping YANG, Changsha University of Science and Technology, China
Day Two - Wednesday, 26 May 2010

Theme 2: 2.3 Road Management and regulations for safety

Auditorium II

President: Anthony KANE (AASHTO)
Moderators: Bernd-Wolfgang WINK (Volkmann & Rossbach)
Álvaro SECO (University of Coimbra)

46 RESEARCH AT THE NATIONAL AND EUROPEAN LEVELS ON THE MAIN FIELDS OF INTERVENTION COVERED BY THE EU DIRECTIVE ON ROAD INFRASTRUCTURE SAFETY MANAGEMENT - THE EXPERIENCE OF A NATIONAL RESEARCH LABORATORY (LNEC)
Antonio LEMONDE DE MACEDO, LNEC, Portugal

95 ASSESSMENT OF THE ACTUAL BRAZILIAN TRAFFIC CODE
Cássio Eduardo de LIMA PAIVA, Unicamp, Brazil

165 EFFECTIVENESS OF ROAD SAFETY INVESTMENT PLANS IN SPAIN. RELATION BETWEEN INVESTMENT AND ROAD ACCIDENTS
Roberto LLAMAS RUBIO, Spanish Fomento Ministry, Spain

239 PROACTIVE PARTNERSHIP STRATEGY
José CARDITA, GRSP - Global Road Safety Partnership, Switzerland

279 EVALUATION PROCEDURES OF MOTORCYCLIST ROADSIDE PROTECTION DEVICES
Jean BLOCH, L.I.E.R, France

503 THE IMPORTANCE OF ROAD MONITORING TO DEVELOP TRAFFIC MANAGEMENT STRATEGIES
Enrique BELDA ESPLUGUES, Dirección General de Tráfico, Spain

518 CONTROLLED ACCESS TO HIGH CAPACITY ROADS AND IMPACT ON ROAD SAFETY. IMPLEMENTATION STUDY IN PROBLEMATIC INTERCHANGES
Jose Luis FAUBEL CAVA, CPS Ingenieros, Obra Civil y Medio Ambiente, S.L, Spain

Theme 3: 3.3 Use of By-products for sustainable roads

Auditorium VIII

President: Jeff REED (IERF/VSS)
Moderator: Steve MUENCH (Washington University)
Convenor: Susana REIS (EP)

128 RE-USE OF CONSTRUCTION WASTE
Tome CANAS, Brisa, Portugal

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Auditorium III

President: N.K. SINHA (ICT)
Moderator: Jarkko NIITYMÄKI (Ramboll Finland Oy)

232 ROADS SUSTENABLEITY: USING RECYCLE MATERIALS ON ROADSIDE EQUIPMENT
Tome CANAS, Brisa, Portugal

382 IN-SITU RECLAMATION OF FLEXIBLE PAVEMENTS USING COAL COMBUSTION BYPRODUCTS
William WOLFE, The Ohio State University, United States of America

459 SUSTAINABLE ROADS WITH ASPHALT RUBBER
Jorge SOUSA, Consulpav, United States of America

494 THE USE OF MILLED BITUMINOUS MATERIAL IN CAPPING
Eduardo FUNG, Coba, Portugal

518 BUILDING ROADS USING WASTES – A MAJOR APPROACH TOWARDS SUSTAINABILITY
Javier AINCHIL LAVIN, FCC Construcción, Spain

557 CONCRETE WITH RECYCLED AGGREGATES FOR ROADS
Gustavo Luis BOLLA, Universidad Tecnológica Nacional – Career of Civil Engineering, Argentina

559 NTALALTERNATIVES SYSTEMS FOR SOIL STABILIZATION FOR IMPROVEMENT OF SOIL PROPERTIES USED IN EMBANKMENTS
Ignacio MOCHÓN LÓPEZ, Gestión de Infraestructuras de Andalucía, Spain

14 THE RED PROJECT FOR THE ROADS OF THE REGION OF ARAGON
Antonio RUSPIRA MORRAJA, Regional Government of Aragon, Spain

40 CHALLENGES OF EMERGENCY RELIEF ROAD CONSTRUCTION IN DEVELOPING COUNTRIES
Thomas DANIEL, Parsons Global Services Inc., Indonesia

47 A 3-D MODEL FOR OPTIMAL ALIGNMENT SEARCH SYSTEM OF HIGHWAY DESIGN BY EXTENDED DIGITAL MAPPING DATA
Seiichi KUSANO, Central Nihon Expressway Company Ltd., Japan
In its contribution and commitment to the grow of Portugal, BPC has made significant investments in the scope of Road Concessions and Logistic Platforms.

Focused on sustainable development we support social, environmental and cultural initiatives, that promote the improvement of the quality of life and environmental preservation.
Conference Programme

Day Three - Thursday, 27 May 2010

8.30 - 9.30
Plenary Sessions: Theme 5
Auditorium I

Jean-François CORTE (PIARC)
Jean-Eric POIRIER (Colas)
Kirk STEUDLE (DOT Michigan)

9.30 - 10.30
IRF/PIARC Session
Auditorium I

President:  Paul VAN DER KROON
(Chairman PIARC Technical Committee B1 Good governance of road administrations & Public Works & Water Management)

Panellists:  Abdullah AL-MOGBEL (Deputy Minister of Transport, Kingdom of Saudi Arabia)
Jacobo DIAZ (AEC)
Brian HARRIS (IRF / IREF)
Anne-Marie LECLERC (PIARC)
Jean-Louis MARCHAND (USIRF)
Antonio PINELO (CRP)

Moderator: Jean-Claude ROFFE (COLAS & USIRF)

Speakers:  Marc NORMAN (TRB)
Brendan NUGENT (NWS Roads and Traffic Authority)

Journalist:  Manuel BATTISTA (World Highways)

10.30 – 11.00
Coffee Break & Posters

11.00 – 13.00
Workshops

Theme 1: 1.5 Mobility and vehicles concept
Auditorium I

President:  Claude CHAM (URF)
Moderator:  Susan PIKRALLIDAS (FIA)

77 IMPLEMENTATION OF ROAD ASSET MANAGEMENT SYSTEM IN SINDH PROVINCE OF PAKISTAN
Konsta SIRVIO, Sirway Ltd., Finland

106 ITS SYSTEM TRUCKINFORM.EU HELPS OVERCOMING PARKING PROBLEMS
Jürgen WEHNERT, Urbane Ressourcen, Germany

116 BRINGING CULTURAL CHANGE THROUGH MASS COMMUNICATION FOR IMPLEMENTING BUS RAPID TRANSIT SYSTEMS
Manoj Kumar AGGARWAL, Delhi Integrated Multi Modal Transit System Limited, India

117 TRANSPORT MOBILITY IN INTERURBAN MOTORWAYS: NEW CHALLENGES FOR TRAFFIC OPERATIONS
Antonio AZEREDO, Brisa, Portugal

183 PROMOTION OF MISSING LINKS IN BELGIUM
Yves DECOENE, Road Federation Belgium, Belgium

235 INNOVATION IN VEHICLES CONCEPT
Pascal COUASNON, Michelin, France

250 TRANSPORT FOR POVERTY ALLEVIATION FOR THE RURAL POOR: AN APPROACH IN BANGLADESH
Md. Abdul QUADER, Local Government Engineering Department (LGED), Bangladesh

284 THRESHOLD VALUES OF PAVEMENT CHARACTERISTICS AT THE INITIAL STAGE OF A ROAD LIFETIME
Grigorios PAPAGEORGIOU, University of Thessaly, Greece

361 ARE MANAGED LANES WORTH IT? EMPIRICAL DATA ON TIME SAVINGS AND TOLLS PAID FROM SR91, CALIFORNIA
Bhuwan AGRAWAL, The Louis Berger Group, Inc., United States of America

386 CONGESTION PRICING: A SOLUTION OR A PROBLEM?
Paulo MATOS MARTINS, ISEL – Instituto Superior de Engenharia de Lisboa, Portugal

453 THE ECONOMY AND ROAD FREIGHT TRANSPORT IN FINLAND - PAST, PRESENT AND FUTURE
Markus PÖLLÄNEN, Tampere University of Technology, Finland

458 DEVELOPMENT OF A COMPUTERIZED, LOW-COST, PORTABLE SYSTEM FOR VISUAL INSPECTION, CHARACTERIZATION AND MAINTENANCE MANAGEMENT OF HIGHWAY PAVEMENTS
Nuno TRINDADE, Coba - Engineering and Environmental Consultants, Portugal

500 BENEFITS OF ROADS
Tim.G M.GREEN, Road Users’ Alliance, United Kingdom

502 REVIEW OF THE EVALUATION METHODOLOGIES OF ROAD PLANS AND PROJECTS
Alberto DOMÍNGUEZ SARABIA, Universidad de Cantabria E.T.S. Ingenieros de Caminos, Canales y Puertos, Spain

512 CAR-BASED MOBILITY REDEFINITION IN LOW-DENSITY AREAS
Eduard ALVAREZ-PALAU, Spain
### Theme 2: 2.4 Road Restraint Systems and Devices

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<td>Usman ISAH</td>
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**Theme 5: 5.3 When green rating improves the technical approach**

**Auditorium IV**

**President:** Jose Antonio SOTO (ATEB)

**Moderator:** Paulo PEREIRA (University of Minho)

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Koji HASEGAWA, Metropolitan Expressway Co., Japan

**38 ENVIRONMENTAL CONCERNS RELATING TO THE OHASHI JUNCTION LOOP STRUCTURE PROJECT**
Seiji KUROKAWA, Metropolitan Expressway Co., Ltd., Japan

**153 A NON-CONTACT MEASURING SYSTEM FOR MONITORING THE DISPLACEMENTS OF LONG DECK SUSPENSION BRIDGES**
Carlos Manuel ALMEIDA SANTOS, LNEC, Portugal

**193 NEW GENERATION OF ROAD BINDER ACTING AS A CARBON SINK**
Jeyan VASUDEVAN, Shell, India

**195 BUILDING A RELIEF ROAD: RELIEVING CONGESTION, REDUCING CO2?**
Paul CARR, Arup, United Kingdom

**339 GIS SUPPORTED MULTICRITERIA ANALYSIS OF A HIGHWAY STUDY – THE CASE OF THE “4ÈME ROCADE D’ALGER” HIGHWAY**
Rui CARIDADE, Coba, Portugal

**449 SUSTAINABLE PAVEMENTS WITH A NOVEL CLASS OF SBS POLYMERS FOR BITUMEN MODIFICATION**
Erik SCHOLTEN, Kraton Polymers, Netherlands

**485 THE NOXER PROCESS: FROM DEVELOPMENTS TO IN-SITU DEPOLUTION MEASUREMENTS**
Pascal ROUSSEAU, Eurovia Management, France

**497 THE DEVELOPMENT OF EME IN EUROPE REQUIRES AN APPROPRIATE APPROACH TO THE CLIMATE**
Tine TANGHE, Nynas NV, Belgium

13.00 – 14.00
Lunch

14.00 – 16.00

**Workshops**

**Theme 2: 2.7 Round Table - New mobility for trucks: European Modular System, EMS**

**Auditorium I**

**President:** Claude Cham (URF)

**Moderator:** Christophe NICODEME (ERF)

**Participants:** Marie-Hélène DECRE (Club 25 25 & Carcoserco),
Marie FOUQUET (Michelin),
Luca FELAPPI (ArcelorMittal),
Heiner ROGGE (Clecat),
Roberto ARDITI (Sina)

**Theme 2: 2.6 Cost-effective solutions and Original solutions in Developing and Developed Countries**

**Auditorium II**

**President:** Hilton VORSTER (City of Tshwane)

**Moderator:** Antonio MACEDO (LNEC)

**3 INTRODUCTION OF ROUNDABOUTS IN CROATIA – PRELIMINARY EXPERIENCES**
Ivan LEGAC, University of Zagreb, Croatia

**55 ENGINEERING SAFER ROADS: THE BANGLADESH PERSPECTIVE**
Md. Mazharul HOQUE, Bangladesh University of Engineering and Technology (BUET), Bangladesh

**174 IMPROVING ROAD SAFETY FOR NORTH EASTERN STATE ROADS OF INDIA – A CASE STUDY**
Debasis CHAKRABARTY, IREO Mgt Pvt Ltd, India

**253 SUSTAINABLE TRANSPORTATION-TRANSPORTATION SAFETY**
Efosa OSAWE, Federal Road Safety Commission, Nigeria

**271 LOW-COST TECHNICAL MEASURES FOR RURAL ROAD SAFETY ENHANCEMENT IN BEIJING**
Gaoqiang ZHANG, Research Institute of Highway, Ministry of Transport, China, China

**318 SUB REGIONAL WEST AFRICAN COUNTRIES ROAD SAFETY SPECIFIC ISSUES**
Ndèye Awa SARR, Laser International, Senegal Republic

**439 SUSTAINABLE ROAD SAFETY: A NEW NEIGHBOURHOOD ROAD PATTERN**
Gordon LOVEGROVE, UBC Okanagan, Canada
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**Theme 3: 3.5 Environmental Management and analysis**

**Auditorium VIII**

- **President:** Dimitrios MANDALOZIS  
  (Attica Tollway Operations Authority)
- **Moderator:** António Gonçalves HENRIQUES (IST)

- **74** OPERATING IN GREEN – THE CASE OF ATTICA TOLLWAY IN ATHENS, GREECE  
  Dimitrios MANDALOZIS, Attica Tollway Operations Authority, Greece

- **147** LANDSCAPE AROUND ROADS: EVALUATION AND SUSTENIBILITY  
  Isabel OTERO, Escuela de Ingenieros de caminos, Canales y Puertos, Spain

- **176** THE IMPLEMENTATION OF ENVIRONMENTAL MANAGEMENT SYSTEM IN EGNATIA ODOS MOTORWAY  
  Thalia VALKOUMA, Egnatia Odos SA, Greece

- **220** MIZORAM STATE ROADS PROJECT - A CASE STUDY ON THE IMPACT ON BIODIVERSITY AND ENVIRONMENT  
  Arijit CHOUDHURY, India

- **341** IMPROVING ENVIRONMENTAL QUALITY WITH ITS.  
  Ángel J. MUÑOZ SUÁREZ, Dirección General de Tráfico, Spain

- **511** EFFICIENCY OF ALTERNATIVE TENDERING MECHANISMS FOR ROAD PUBLIC-PRIVATE PARTNERSHIPS  
  Antonio SÁNCHEZ SOLIÑO, Universidad Politécnica de Madrid, Spain

- **526** PUBLIC-PRIVATE PARTNERSHIPS IN ROADS AND GOVERNMENT SUPPORT: TRENDS IN DEVELOPING ECONOMIES  
  Cesar QUEIROZ, World Bank, United States of America

- **568** ROAD PRICING: THE CASE OF THE NETHERLANDS  
  Adnan RAHMAN, Ecorys, Netherlands

**Theme 4: 4.4 Road Financing Policy**

**Auditorium III**

- **President:** Peter BASSO (AASHTO)  
  **Moderator:** Michael STANCIU (Search Corporation)

- **168** DYNAMIC TOLLING STRATEGIES CONSIDERING THE INTERNALIZATION OF EXTERNAL COSTS  
  Peter UMMENHOFER, Kapsch TrafficCom, Austria

- **204** INNOVATIVE PROJECT DELIVERY MODELS  
  Graham HOOPER, AECOM, United Arab Emirates

- **51** A NOVEL APPROACH TO THE PREDICTION OF ACCUMULATED STRAINS OF POLYPROPYLENE MODIFIED ASPHALT SPECIMENS SUBJECTED TO REPEATED CREEP TEST BY UTILIZING ARTIFICIAL NEURAL NETWORKS  
  Serkan TAPKIN, Anadolu University, Turkey

- **265** INFLUENCE PROCESS OF MODIFICATION OF BITUMINOUS CONCRETE BY THE NBR ON THE MECHANICAL AND RHEOLOGICAL CHARACTERISTICS  
  Khedoudja SOUDANI, USTHB, Algeria

- **511** EFFICIENCY OF ALTERNATIVE TENDERING MECHANISMS FOR ROAD PUBLIC-PRIVATE PARTNERSHIPS  
  Antonio SÁNCHEZ SOLIÑO, Universidad Politécnica de Madrid, Spain

- **526** PUBLIC-PRIVATE PARTNERSHIPS IN ROADS AND GOVERNMENT SUPPORT: TRENDS IN DEVELOPING ECONOMIES  
  Cesar QUEIROZ, World Bank, United States of America

- **568** ROAD PRICING: THE CASE OF THE NETHERLANDS  
  Adnan RAHMAN, Ecorys, Netherlands

**Theme 5: 5.4 New developments in prediction of behaviours**

**Auditorium IV**

- **President:** Carlo GIAVARINI (SITEB)  
  **Moderator:** Bernard ECKMANN (USIRF)

- **51** A NOVEL APPROACH TO THE PREDICTION OF ACCUMULATED STRAINS OF POLYPROPYLENE MODIFIED ASPHALT SPECIMENS SUBJECTED TO REPEATED CREEP TEST BY UTILIZING ARTIFICIAL NEURAL NETWORKS  
  Serkan TAPKIN, Anadolu University, Turkey

- **265** INFLUENCE PROCESS OF MODIFICATION OF BITUMINOUS CONCRETE BY THE NBR ON THE MECHANICAL AND RHEOLOGICAL CHARACTERISTICS  
  Khedoudja SOUDANI, USTHB, Algeria

- **431** POLYMER MODIFICATION OF BITUMEN EXTRACTED FROM VARIABLE REFINERIES IN SAUDI ARABIA  
  Mohamed S. AAZAM, Ministry of Transport, Saudi Arabia

- **437** NEW DEVELOPMENTS IN PREDICTING Rutting of Asphalt Mixtures from Binder Rheological Characteristics  
  Jean-Pascal PLANCHE, Total Refining & Marketing, France

- **524** LABORATORY INVESTIGATION OF THE PROPERTIES OF ASPHALTIC MIXTURES AND ITS ANTIOXIDANT MODIFIER SUBJECTED TO AGEING  
  Abdullahi Ali MOHAMED, University of Nottingham Malaysia Campus, Malaysia

- **548** STUDY OF THE BEHAVIOUR OF BITUMINOUS MIXTURES RESISTANT TO FUEL  
  Ana Cristina FREIRE, LNEC, Portugal
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584  DYNAMIC MODULUS MASTER CURVE AND CHARACTERIZATION OF SUPERPAVE HMA CONTAINING VARIOUS POLYMER TYPES
Mohamed S. AAZAM, Ministry of Transport, Saudi Arabia
16.00 – 16.30
Coffee Break & Posters

16.30 – 18.30
Workshops

Theme 2: 2.5 Round Table - Workzone Safety
Auditorium I

President: Joël MALABAT (Aximum)
Moderator: Luca FELAPPI (ArcelorMittal)
Participants: Arnold DELANEY (Quixote Transportation Safety)
David McCONNELL (Amey)
Rik NUYTTENS (3M)
Thierry REIP (Snoline)
Bernd Wolfgang WINK (Volkmann & Rossbach)

Theme 2: 2.8 Vulnerable Road Users
Auditorium II

President: Gilbert KONZETT (Kapsch Telematics)
Moderator: José M TRIGOSO (PRP)

161  FEAR APPEALS IN ROAD SAFETY ADVERTISEMENTS: THE REACTIONS OF UNIVERSITY STUDENTS
Iris DE ALMEIDA, Portugal

166  IMPROVING ROAD WORKER SAFETY
David McCONNELL, Amey, United Kingdom

202  IMPROVING MOTORCYCLISTS’ SAFETY IN SPAIN BY ENHANCED CRASH TEST PROCEDURES AND IMPLEMENTATION GUIDELINES
Alberto MANSILLA, CIDAUT FOUNDATION - R&D IN TRANSPORT AND ENERGY, Spain

347  PROTECTING VULNERABLE ROAD USERS THROUGH COMMUNITY BASED ROAD SAFETY PROGRAMMES
Hilton VORSTER, City of Tshwane, South Africa

365  ROAD SAFETY AUDITS FOR CYCLE ROUTES
Alaitz LINARES UNAMUNZAGA, Universida de Burgos, Spain

426  IMPACTS OF MOTORISTS NOT SHARING THE ROAD WITH PEDESTRIANS
NISHI MITTAL, Central Road Research Institute, India

448  CONTEXT SENSITIVE DESIGN AND SAFETY REVIEW OF BIKE LANES
Giulio DONDI, University of Bologna, Italy

553  ROADSIDE INFRASTRUCTURE & MOTORCYCLIST
Angel V. MARTINEZ, Hierros Y Aplanaciones, S.A. (HiASA), Spain

Theme 3: 3.6 Environmental Management (including Noise mitigation)
Auditorium VIII

President: Manuel PINHEIRO (IST)
Moderators: Carl RELLER (Transit New Zealand)
Borja CARAVANTE MUNTADA (Community of Madrid)

89  HISTORICAL DEVELOPMENT OF NOISE REDUCING WEARING COURSES IN DK.
Jean Paul MICHAUT

146  ESTABLISHING A LARGE SCALE NOISE REDUCING PAVEMENT NETWORK BY EVALUATING THE EFFECTIVENESS FOR INHABITANTS – CASE FROM THE CITY OF HELSINKI
Ville ALATYPPÖ, City of Helsinki, Finland

292  NANOSOFT
Pierre PRINGUET, Colas, France

355  ASSESSMENT OF THE TRAFFIC NOISE ON THIN LAYERS
Elisabete FREITAS, University of Minho, Portugal

576  NEW EUROPEAN NOISE BARRIER FEDERATION ENBF
Irene FUSCO, European Road Federation, Belgium

577  QUIETENING THE ENVIRONMENT FOR A SUSTAINABLE SURFACE TRANSPORT - QUIESST PROJECT
Irene FUSCO, European Road Federation, Belgium

549  GUIDELINES FOR SILENT ROAD SURFACES IN THE NETHERLANDS
Walter GERRITSEN, KOAC-NPC Pavement Research & Consultancy, Netherlands
Day Three - Thursday, 27 May 2010

Theme 4: 4.5 Road Maintenance Management

Auditorium III

President: Max VONDEVIVERE (German Asphalt Institute)
Moderator: Maria LURDES ANTUNES (LNEC)
Sponsored by BETAR

129 PAVEMENT MANAGEMENT SYSTEM
Dora BAPTISTA, Brisa Engenharia e Gestão, Portugal

182 ROAD VISUAL INSPECTIONS FOR THE IDENTIFICATION OF MAINTENANCE REQUIREMENTS
Jacobo DIAZ, Spanish Road Association, Spain

188 INTRODUCTION OF PERFORMANCE-BASED MAINTENANCE CONTRACT IN EXPRESSWAYS IN JAPAN
Masato MATSUMOTO, West Nippon Expressway Company Ltd., Japan

467 MAINTENANCE AND DESIGN OF THE RURAL ROADS THEIR MANAGEMENT AND COSTS OF REALIZATION
Nacira SAOUDI, Université des Sciences et de la Technologie Houari Boumediene, Algeria

469 ESTABLISHMENT OF MANAGEMENT SYSTEM FOR MAINTENANCE ACTIVITIES IN URBAN ROAD NETWORK - CASE STUDY IN BENGHAZI – LIBYA
Jamal BEITELMAL, Ganyounis University Faculty of engineering Benghazi, Libya

Theme 5: 5.5 Innovation in assistance systems

Auditorium IV

President: Rui CAMOLINO (ITS Portugal)
Moderator: Bernard HERITIER (Eiffage TP)

190 COUNTERMEASURES AGAINST WRONG-WAY DRIVING
Tomoyuki ADACHI, West Nippon Expressway Company Ltd., Japan

210 DEVELOPING A TEST TOOL FOR ADVANCED ASSISTANCE SYSTEMS IN INTERSECTIONS, PEDESTRIAN AND VEHICLE DETECTION
David GALLEGOS, Applus+ Chair in Automotive Safety - Polytechnic University of Catalonia, Spain

418 USE OF GPR SURVEY DATA TO ENHANCE NETWORK LEVEL LIFE EXPECTANCY ANALYSIS AND REHABILITATION DESIGN
Kamran MAJIDZADEH, Resource International, Inc., United States of America

538 BUS DELAYS IN MIXED TRAFFIC: A CHALLENGE FOR INTELLIGENT TRANSPORTATION SYSTEMS
Ali M. ABDELFATTAH, Zuhair Fayez Partnership, Saudi Arabia

546 EVALUATION OF A DYNAMIC FEEDBACK SYSTEM IN VARIOUS APPLICATION CONTEXTS
Christian SCHULTE, RTB GmbH & Co.KG, Germany

556 INDIRA'S CONTRIBUTION TO TRAFFIC SAFETY IN SPANISH ROADS
Juan José HERMOSO, Indra Sistemas S.A., Spain

569 SPEED CONTROL ALGORITHM DYNAMICS. APPLICATION IN V-31
Ruth GOMAR MARTÍN, Indra Sistemas S.A., Spain

581 EVALUATION OF THE WEATHER CONTROL SYSTEM IMPLANTED IN THE NORTHWEST TRAFFIC MANAGEMENT CENTRE
Carlos DEL CAMPO GÓMEZ, Subdirección General Adjunta de Circulación, Spain

19.30 - 20.30
Gala Dinner
Beato Monastery
Sponsored by Brisa
Mobility for the people

Traffic on Brisa’s operational network, of 24 motorways and over 1600 km, is managed by the latest state of the art technology. Brisa’s Operational Coordination Centre in Carcavelos monitors over 500 video cameras, 190 variable message panels and 50 meteorological stations, providing a constant flow of information about mobility and driving conditions. At Brisa, traffic management technology is a main priority, allowing for smooth and efficient operations to take place on a very intensive network: with over 600 thousand daily trips and toll transactions and 200 daily assistance and rescue interventions, totalling in over 100 thousand procedures per year. These are key numbers that reinforce the high mobility and safety standards of Brisa’s motorways.

For more information visit www.brisa.pt
Day Four - Friday, 28 May 2010

9.00 – 11.00
Workshops

Theme 2: 2.9 Road design for safety
Auditorium I
President: Jean-Marc BAILLET (3M)
Moderator: Jean BLOCH (L.I.E.R.)

34 OVERVIEW OF THE TYROSAFE PROJECT
Marco CONTER, Arsenal research, Austria

49 IMPACT OF TRAFFIC CALMING MEASURES
Dharmesh DHARMESH SHAH, Traffic and Public Transport Authority, Sweden

134 THE IRAP ROAD SAFETY TOOLKIT – A WEBSITE-BASED APPROACH TO ADDRESSING ROAD SAFETY PROBLEMS
Adrian WALSH, International Road Assessment Programme (IRAP), Australia

164 DIFFERENT TYPES OF JUNCTION BEHAVIOUR FROM ROAD SAFETY POINT OF VIEW. SPANISH EXPERIENCE IN STATE ROAD NETWORK
Roberto LLAMAS RUBIO, Spanish Fomento Ministry, Spain

269 FIRST ENGINEERING PRACTICE OF TRAFFIC CALMING IN ZHAIJIANG TOWN IN CHINA
Gaoqiang ZHANG, Research Institute of Highway, Ministry of Transport, China

531 ROMA-TAROOM ROAD ADVANCING DESIGN AND CONSTRUCTION PRACTICE FOR LOW VOLUME ROADS
Peter EVANS, Queensland Government, Department of Transport and Main Roads, Australia

Theme 4 - Portuguese PPP cases:
Lessons from the last 20 years

Auditorium II
President: Antonio PINELO (CRP)
Moderators: Rui MANTEIGAS (EP); Manuel LAMEGO (APCAP)

Theme 3: 3.7 Roundtable - Responsible development
Auditorium VIII
President: Michel DUCASSE (Eurovia)
Moderator: Louis MAISON (Eiffage TP)
Participants: Franco CARUSO (Brisa); Vitor CARNEIRO (APPC)

Theme 3: 3.8 Roundtable - Ecology, Ergonomics, Evolution, Economy are the Manufacturers’ key drivers.

Auditorium III
President: Jacques BONVALLET (CECE)

The crisis has forced road professionals to change the way we see things, and we are getting back to basics, to what might be called the Essentials. Road equipment manufacturers are rivalling each other in the ingenuity stakes to offer sustainable solutions in a European regulatory framework, but with innovation and economy still firmly in their minds. The Round Table seeks to define the main elements of this trend.
Day Four - Friday, 28 May 2010

A. Introduction: Major trends in the Evolution of the manufacturer's product range, which is both global and local. Contribution of manufacturers to the supply of sustainable solutions. Jacques BONVALLET (CECE)

B. Regulatory European framework and its international standing.

B1. Reminder of the Machinery and Emissions Directive, the profession has drawn up a roadmap for reducing emission levels and improving work conditions (Safety and Ergonomics). Cosette DUSSAUGEY (CISMA France & CECE)

B2. Practicalities and specific consequences of the regulations for the profession in terms of emissions. Giorgio BILLI (Unacorna & CECE)

C. What are manufacturers doing in practical terms?

C1. Equipment in cities, discreet work, new motors and urban design for road and sweeping equipment. Karel GOEDKOOP (Ravo)

C2. Evolution of machinery motors, biofuel and hybrid solutions are no longer pipe dreams. Pierre GUYOT (John Deere)

C3. Quick rundown of hot, low-energy and cold recycling equipment types. Jacques BONVALLET (Fayat)

C4. Batch high-rate bitumen asphalt recycling with new equipment. Christian JAKOBI (Ammann)

C5. Ecodesign and Ecoconcepts are taken on board by manufacturers with ambitious objectives. John FERRARIS (Caterpillar)

D. Practical cases of manufacturers' contributions: two entrepreneurs' viewpoint.

D1. Constructive solutions provided by production plant manufacturers for developing a low-energy process. Alain ROMIER (LEACO)

D2. A prototype becomes an industrial machine and spreads glass fibres on surface dressings, through a manufacturer/entrepreneur partnership: 10 min. François CHAIGNON (Colas)

E. Round table and discussion with the audience

54  GINA - GNSS FOR INNOVATIVE ROAD APPLICATIONS: EGNOS/GALILEO FOR ROAD USER CHARGING AND VALUE ADDED SERVICES
Sara GUTIERREZ LANZA, GMV, Spain

203  CASE STUDY CZECH ELECTRONIC TOLL COLLECTION
Karel FEIX, Kapsch Telematic Services, Czech Republic

241  INFORMATION SYSTEM AND ARTIFICIAL INTELLIGENCE ORIENTED FOR NUMERICALLY DESIGN STAGE OF BRIDGE DEEP FOUNDATION SYSTEM
Erhan Burak PANCAR, Onkoduz Mayis University, Turkey

326  INFLUENCE OF NEW VEHICLE TYPES ON ROAD PAVEMENT DESIGN IN CROATIA
Tatjana RUKAVINA, Faculty of Civil Engineering, University of Zagreb, Croatia

504  EVIDENT CONSIDERATIONS ON THE PREPARATION OF TRAFFIC STUDIES ON HIGHWAY CONCESSIONS.
Julián SASTRE GONZÁLEZ, Independent Consultant, Spain

550  FREE FLOW SYSTEMS: IN LANE & BACK OFFICE. ACCURACY AND OPERATION OPTIMIZATION
Iñigo LARRAONDO, Telvent Transportation, Spain

11.00 – 11.30  Coffee Break & Posters

11.30 -13.30  Conclusions & Closing Ceremony

13.30 -14.30  Lunch

14.30 -15.30  Closing of the exhibition
Social Events

Social programme
The World Meeting will move at the pace of major social events.

Porto de Honra - 25 May 2010
On the first day of the Congress, after the Opening Ceremony of the exhibition, there will be a Porto de Honra (Oporto of Honour). It will be the first social event of the programme and the perfect occasion to get together around a prestigious wine renowned since the 18th century.

Sponsored by Instituto da Mobilidade e dos Transportes Terrestres, I.P.

Welcome Reception - 25 May 2010
The reception, held within the exhibition, will give you an opportunity to meet the World Meeting participants and exhibitors for direct and privileged exchanges.

The welcome reception is included in the conference registration fee and the accompanying persons programme fee.

Sponsored by COLAS.

Gala Dinner - 27 May 2010
The history of Beato Monastery dates back to the 15th century, when Queen Isabel, wife of King Afonso V, was given authorisation to build a hospice in the chapel of S. Bento for the congregation of “frades azuis”– the blue monks. Before she was able to fulfill her wish, the Queen died, leaving 8,000 gold coins in her will for the hospice construction.

In 1984, the Beato Monastery was classified as a Heritage Site of Public Interest. The Gala Dinner will be a unique experience, rich in Portuguese culture and history.

Sponsored by Brisa.

Preliminary and post-tours
Would you like to make your stay in Lisbon a pleasant one by enjoying tours upstream and downstream the World Meeting? Madeira Island, northern or southern Portugal and the towns in the outskirts of Lisbon are all unique locations to make your stay in Portugal absolutely unforgettable.

Ascendi means ambition and determination to bring people together all over the world. We are a company with broader horizons and strong willingness to be a global reference in the transport concessions’ sector. Every day, we work aiming to increase investments, achieve more innovation and improve the populations’ well-being.

At Ascendi, we know that this is the way to go.
## Technical Visits

### 26th May 2010

<table>
<thead>
<tr>
<th>TECHNICAL VISIT 1 : BRISA TRAFFIC CONTROL CENTER</th>
<th>Duration: 1.5 hours</th>
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</thead>
<tbody>
<tr>
<td>• Departure from CCL by national road 6 along the Tagus river till Carcavelos.</td>
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<tr>
<td>• Brisa Traffic Control Center (COO) – presentation of the project and visit – 30 min.</td>
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<tr>
<td>• Return to CCL by A5 (motorway Lisbon/Cascais).</td>
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<tr>
<td>• Departures: 11:00 and 11:30</td>
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<tr>
<td>• 2 buses: limit of 98 participants</td>
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<thead>
<tr>
<th>TECHNICAL VISIT 2 : CRIL – LISBON INTERNAL RING (A36)</th>
<th>Duration: 2.5 hours</th>
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<tr>
<td>• Departure from CCL by National Road 6 till Algés, then Buraca.</td>
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<tr>
<td>• Site at final phase of construction – Buraca/Pontinha. Visit – 90 min.</td>
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<tr>
<td>• Return by the 2nd Ring to CCL.</td>
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<tr>
<td>• Departures: 14:00 and 16:00</td>
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<tr>
<td>• 2 buses: limit of 98 participants</td>
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</tbody>
</table>

### 27th May 2010

<table>
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<tr>
<th>TECHNICAL VISIT 3 : CREL – LISBON EXTERNAL RING (A9)</th>
<th>Duration: 2 hours</th>
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<tr>
<td>• Departure from CCL to National Stadium, then Queluz, Odivelas, Loures, Bucelas and Alverca.</td>
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<tr>
<td>• Crossing of the Tagus river by Vasco da Gama bridge.</td>
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<tr>
<td>• Follow A12 till Palmela, then A2 till Marateca, A13 (Marateca/ Santarém) and A10 (Carregado/Bucelas).</td>
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<tr>
<td>• Crossing of the Tagus river by Leziria bridge (A10).</td>
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<td>• Carregado motorway knot.</td>
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<tr>
<td>• Return to Lisbon (CCL) by A1.</td>
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<td>• Departures: 9:00, 9:30 and 10:30</td>
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<tr>
<td>• 3 buses: limit of 147 participants</td>
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<tr>
<th>TECHNICAL VISIT 4 : WIDENING OF A8 MOTORWAY (2X2 TO 3X3) NEAR LISBON</th>
<th>Duration: 2 hours</th>
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<tr>
<td>• Departure from CCL by National Road 6 till A) (CREL), then A8 (West Region Motorway).</td>
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<tr>
<td>• Stop for presentation.</td>
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<tr>
<td>• Return by A15 (Caldas da Rainha/Santarém motorway) and A1 (Oporto/Lisbon motorway) to Lisbon (CCL).</td>
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<tr>
<td>• Departures: 14:00, 15:00 and 16:00</td>
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Exhibition Floor Plan

16th International Road Federation World Meeting
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<td>Association mondiale de la Route (AIPCR) / World Road Association (PIARC) <strong>D2</strong></td>
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<td>B.PEDROSO/ODEBRECHT Gold Sponsor <strong>C2-D1</strong></td>
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<td>Barrier Systems <strong>B5</strong></td>
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<td>BETAR CONSULTORES, LDA <strong>Partner F4</strong></td>
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<td>BRISA AUTO-ESTRADAS DE PORTUGAL Platinum Sponsor <strong>C6-D5</strong></td>
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<td>LIER <strong>F8</strong></td>
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<td>M.F.P. MICHELIN Partner ****</td>
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<td>Manwa Trading and Contracting <strong>H2-I1</strong></td>
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<td>Ministry of Road Transport and Highways, Govt. of India <strong>G6-I3</strong></td>
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<td>MINISTRY OF TRANSPORT, Kingdom of Saudi Arabia <strong>H2-I1</strong></td>
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ASCAS (Association for the Concessionaires operating Shadow Toll Motorways) is a private non-profitable, non-political and non-religious association, with separate legal personality, created in February 2005 which pursues the following goal: to study and issue opinions on technical matters of general interest to the Concessionaires of the Shadow Toll Motorways, in particular regarding administrative, financing, legal, tax, by undertaking research and development in connection with the members’ activities. Ascas’ Associates: EUROSCUT S.A., LUSOSCUT S.A., NORSCUT S.A., SCUTVIAS S.A. VIALITORAL S.A.

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Spanish Road Association (SRA) The Spanish Road Association (SRA), a non-profit organization founded in 1949, works from its beginnings towards the road defense and promotion. As a Public Utility organization, its main actions are focused on road safety, environment, new technologies, urban mobility and infrastructure service quality. The SRA organizes many activities with Public Administrations, private companies and associations. Some of these activities are technical reports, meetings, training courses, publications, etc. The SRA is an IRF member since 1950.
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¹FHWA-RD-99-130, December 1999
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Fax. +33 1 49 00 02 02 • jf.corte@piarc.org • www.piarc.org

The World Road Association (PIARC) is a non-profit making association established in 1909. It is a leading international forum for analysis and discussion of the full spectrum of roads and road transport issues. Its aim is to identify, develop and disseminate best practice, facilitate access to international information. PIARC has 118 member governments together with collective and individual members in 142 countries. XXIV World Road Congress will take place in Mexico City, 26–30 Sept. 2011. Information on events, reports and magazine Routes/Roads: www.piarc.org
E-mail: info@piarc.org

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The Portuguese National Authority for Road Safety (NARS) was established in 2007 as a specialized department with the mission of supporting Government policies on road safety (Decree-law 77/2007). It is also responsible for conducting traffic offense proceedings.

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billion euros of consolidated revenue (42% outside of France).

emulsion plants and asphalt plants. In 2009, Colas posted 11.6 

each year, backed by a tight international network of quarries, emulsions and modified bitumens; Bripealtos, dedicated to 

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The Croatian Road Society – Via Vita, a new member of ERF, and a member of the IRF, is an umbrella road association that gathers professionals in the road sector and represents the Croatian road institutions and companies. For more than 50 years Via Vita has been a promoter of new scientific solutions and professional knowledge and practices at the conferences that it has organized. Via Vita has been publishing a professional journal “Ceste i mostovi” (Roads and Bridges) and a series of publications relevant to transport sector.

**DGT - ROAD TRAFFIC DIRECTORATE**

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Subsidiary of the Caisse des Dépôts Group, Egis is an engineering and consulting group specialised in the construction of infrastructures and systems for transportation, local and territorial development, water and the environment. Egis is also involved in project development and road and airport operation. With a workforce of 8370 worldwide and a turnover of 563 million in 2009, it is active in more than 100 countries and has some 50 entities in France. For more information: www.egis.fr

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The European Union Road Federation (ERF), is a non-profit association which coordinates the views and concerns of Europe's road sector. The ERF acts as a European platform for dialogue, condenses the road sector's input on mobility issues and promotes research leading to viable, efficient and sustainable road transport.

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C/ Sepúlveda, 6 Pol. Ind. Alcobendas, 28108 ALCOBENDAS (MADRID), Spain • Tel. + 34 916 232 200
Fax. + 34 916 232 289 • info@sice.com • www.sice.com

SICE is a technology systems and services integrator in the field of Intelligent Traffic and Transport Systems (ITS), industrial and environmental control systems and telecommunications. SICE offers tailor specific solutions in the following areas: Street Lighting, Process Control, Telecommunications, ITS, Environment Services, Toll Systems, Global Security Systems and Transport Technical consulting and auditing, basic and detailed engineering, installation, operation and preventive and corrective management maintenance, technological R+D and manufacturing. SICE is a global, dynamic and modern company with presence in the five Continents.

SNOLINE
**Booth B5**
VIA F.BARACCA 19/23, 20056 TREZZO S/ADDA (MI), ITALY
Tel. 0039 029 09 961 • Fax. 39029096200
c.luini@snoline.com • www.snoline.com

Set up in 1955, Snoline aims to find innovative ways to produce long-lasting road markings. The company’s mission is to improve
safety on the roads. The core business activity consists of the development, production and sale of passive road traffic safety systems that reduce the consequences of impact with fixed obstacles. All the products are tested in accordance with the EN1317. Snoline received also the CE marking for its products.

SOMAGUE ENGENHARIA SA (Silver Sponsor)
Rua da Tapada da Quinta de Cima - Linhó, Cintra, Portugal rdiegues@somague.pt • www.somague.pt

SWARCO GROUP SWARCO AG (Gold Sponsor)
Booth B2-C1
Blattenwaldweg 8, 6112 Wattens, Austria
Tel. 0043 5224 5877 0 • Fax. 43522456070
office.ag@swarco.com • www.swarco.com

SWARCO – founded by Tyrolean entrepreneur Manfred Swarovski - is a growing international group providing the complete range of road marking, signaling and traffic management products, services and solutions. The focus of SWARCO’s business is to keep traffic in motion and inform and guide the traveller with innovative products and services in order to support the growing mobility needs of society. Our mission is to help our customers to manage mobility and increase traffic safety with high quality and environmentally friendly solutions while providing a sustainable return to our stakeholders.

TEIXEIRA DUARTE-ENGENHARIA E CONST., S.A
Booth C11-B12
Edificio 2 - Lagos Park, 2740-265 PORTO SALVO / OEIRAS, PORTUGAL • Tel. 00351-217 912 300 • jcd@tduarde.pt

Teixeira Duarte has the Construction as its core business and has always been an “engineering house”, purpose that has never left. In the last two years, the turnover was superior to 1,250 Milliards euros, 60% of which result from the actuation in foreign markets. In 2009, EBITDA grew 11.7% and reached 209 million Euros. Operating in other sectors: Cement, Concrete and Aggregates, Concessions and Services, Real Estate, Hotel Services, Food Trading, Fuel Trading and Sale of Vehicles.

THE CENTRAL ROAD RESEARCH INSTITUTE - CRRI
Booth G6-I3
Mathura Road, New Delhi, India
director.crri@nic.in • www.crridom.gov.in

The Central Road Research Institute (CRRI), established in 1952 is a constituent laboratory of Council of Scientific and Industrial Research (CSIR). It is involved in R&D in road transportation covering road engineering and bridges and provides professional consultancy. The work includes traffic and transportation planning and management also. The laboratories are equipped with most modern research facilities for both theoretical and field oriented R&D and consultancy services. For more details, please contact e-mail: director.crri@nic.in web: www.crridom.gov.in

TRACEVIA - SINALIZAÇÃO, SEGURANÇA E GESTÃO DE TRÁFEGO, LDA.
Booth A5
Zona Industrial da Abrunheira, Edificio Tracevia, 2714-531 SINTRA, PORTUGAL
Tel. (+351) 219 155 400 • tracevia@tracevia.pt

TRACEVIA is a Portuguese company specialised in ITS (mainly systems integration), part of MOTA-ENGIL, Portugal’s largest construction group. We design and build several different kinds of ITS systems, producing our own Traffic Management Software. We also commercialise and integrate numerous different traffic products (traffic counting/classifying, CCTV, VMS, AID, IT, etc.). We implemented several turn-key solutions comprising all abovementioned subsystems. Tracevia is currently operating in Europe, Middle East, Africa and South America.

USIRF - ROUTES DE FRANCE
Booth A12-B13
10, rue Washington, 75008 Paris, France • Tel. +33 1 44 13 32 90
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L’Union des Syndicats de l’industrie Routière Française se veut une union nationale forte et fédératrice ayant le souci de défendre les intérêts des constructeurs de routes et de producteurs de matériaux routiers.

VOLKMANN & ROSSBACH
Booth A1
Hohe Straße 9-17, 56410 Montabaur, GERMANY
Tel. 0049-2602-1350 • Fax. 0049-2602-135560
export@volkmann-rossbach.de • www.volkmann-rossbach.com

VOLKMANN & ROSSBACH (abbr.: VR) has been providing road safety for over 40 years. Our range offers a large variety of products to make roads safer: mobile steel barriers (e.g. MiniGuard and Varioguard), guardrail systems (from single guardrails to high-performance systems like SuperRail and MaxiRail) as well as road markings (paint markings, tape markings, hot and cold plastics and agglomerates). In addition, our wide range of products is completed by amphibian-protection systems and under-ride protection for motor-cyclists.
WORLD HIGHWAYS

Booth I2
Route One Publishing Ltd., Horizon House, Azalea Drive, Swanley, Kent, BR88JR, UK. • Tel: +44 1322 612055
Fax: +44 161 603 0891 • www.worldhighways.com

World Highways is a leading international construction title dedicated to all aspects of road infrastructure worldwide, from the planning, construction and maintenance of highways to tolling, safety, and traffic management systems. World Highways offers a comprehensive range of Special Publications and Supplements to cover emerging subjects in more depth. World Highways EUROFILE provides its European readers with a substantial amount of additional Europe-specific information, whilst also providing advertisers with a dedicated monthly European advertisement medium. It is distributed monthly to 15,159 named industry professionals across the world. (BPA Worldwide December 2009). www.worldhighways.com is by far the industry’s most comprehensive information source, with up to five news stories being posted every day, as well as a substantial amount of exclusive material not available in the magazine. It offers all registered visitors a personalized key-word driven weekly newsletter, and the World Highways on-line team will be providing daily news services from all of the most important 2010 industry events.

ZAGOPE - CONSTRUÇÕES E ENGENHARIA S.A (Gold Sponsor)

Booth C4-D3
Avenida Frei Miguel Contreiras, 54 4º, 1749-083 Lisboa, Portugal
margarida.tenreiro@zagope.pt • www.zagope.pt

Zagope is a company specialized in public construction. Since its foundation, in 1967, Zagope has participated in the development process of the infrastructure network in Portugal. In 1988, Zagope was acquired by the Andrade Gutierrez Group, a Brazilian group with an outstanding international presence in the public construction, as well as in the telecommunications, infrastructure concessions and energy sectors. As of 2004, after being put in charge of internationalizing the Andrade Gutierrez Group, Zagope opened up new markets in Europe, Africa and Asia, improving its portfolio and results.