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[www.piacr.org](http://www.piacr.org)

## EDITORIAL

## New 2007 Activity Reports of PIARC National Committees - online

The PIARC National Committees serve as a central link between the Association and the respective member countries. They channel information from the Association to a national audience, carry information on the national or regional situation to the international road community, contribute to the dissemination of PIARC publications and other outputs, organise local and regional activities such as meetings, conferences and seminars, perform administrative duties and provide comprehensive membership services in their own countries.

At the Paris World Road Congress PIARC National Committees will actively participate in the exhibition and the technical programme of the congress. Many National Committees have organised national pavilions of their respective countries and organised the attendance of their delegations at the congress. Furthermore all committees will have the opportunity to present themselves and their countries activities in the joint PIARC pavilion.

On that point I should like to draw your attention on a tool to learn more about National Committees activities. The new 2007 Activities Reports of National Committees, prepared for the World Road Congress, are now on-line on the PIARC-website in the public area of National Committees ([www.piacr.org/en/nationalcommittees/](http://www.piacr.org/en/nationalcommittees/)). A password is not required to enter this section of the website. It provides you with all requested information about individual NC websites, contact addresses and persons, publications, events and other activities as well as the Activity Reports of the recent and former years.

At the World Road Congress, you can contact me as representative of the PIARC National Committees personally. I will be at your disposal in the PIARC pavilion, 1st floor of the exhibition, to answer all your questions or provide you with information about PIARC National Committees and how to obtain benefit from the work of National Committees in your country.

**Friedrich Zotter**

Representative of National Committees  
on the PIARC Executive Committee

## NC News, Events, Seminars and Conferences

NORDIC ROAD ASSOCIATION  
NEW CHAIRMAN OF THE ASSOCIATION

Mr Jukka Hirvelä, Director General of the Finnish Road Administration, was chosen to be the new chairman of the Finnish section of the NRA on the 24th of May. As the Association is lead by the Finnish section during the period 2004 - 2008, Mr Hirvelä is also filling the position of Nordic Chairman and is a member of the PIARC Executive Committee.



[www.nvfnorden.org](http://www.nvfnorden.org)

## GREECE



The Hellenic National Committee is now finishing the translation of the Road Safety Manual in Greek, in order to be available to the domestic Technical organizations and bodies for comments. Greek Motorway Company EGNATIA ODOS S.A. sponsors this translation.

[www.piacr.gr/en/](http://www.piacr.gr/en/)

Your opinions and comments to

Friedrich Zotter: [friedrich.zotter@bmvit.gv.at](mailto:friedrich.zotter@bmvit.gv.at)

# NC News, Events, Seminars and Conferences

## ARGENTINA

### VIIIth Latin American Encounter on environmental aspects in the transport sector

14th -17th November 2007, Pan-American Hotel, Buenos Aires



The motto of the 2007 encounter is "Environmental and Social Challenges in the transport sector" and the following sessions will be provided:

**Session 1:** Environmental considerations in the urban transport.

**Session 2:** Natural vulnerability and disasters.

**Session 3:** Environmental challenges in the integration of South America.

**Session 4:** The atmosphere and the road security.

**Session 5:** Innovations of the partner-environmental management in the environmental units.

**Session 6:** Advances in the environmental and social management in highways.

With the intention of spreading the knowledge of the road environmentalists of Latin America, who already have demonstrated their interest in the meetings, a DVD of the contributions will be prepared.

Information at: <http://sluat.org/>

## GERMANY

The German "Forschungsgesellschaft für Straßen und Verkehrswesen (FGSV)", acting as the German National Committee of PIARC, is organizing two major events within the month of September:



### **Concrete Road Conference 2007**

27th - 28th September 2007, Congress Center in Erfurt

Purpose of the conference is to inform about the current developments in the area of the construction of concrete roads. 300 participants are expected and the topics of the conference will cover

- Experiences, developments and current research results
- Dimensioning and use of concrete road surfaces
- New technical sets of rules

### **Colloquium on Technical Road Service and Operation**

25th - 26th September 2007 in Karlsruhe

A specialized exhibition will accompany the colloquium organized jointly with the Institute for Road and Railway at the University of Karlsruhe.

Information at: [www.fgsv.de](http://www.fgsv.de)

## GREECE



### **Report on the International Conference on Advanced Characterization of Pavement and Soil Engineering Materials**

20th - 22nd June 2007 in Athens

The National Technical University of Athens (NTUA) in cooperation with the Delft University of Technology (TU Delft) and the University of Illinois organized in Athens, 20th - 22nd June 2007, the International Conference entitled "Advanced Characterization of Pavement and Soil Engineering Materials". The Conference aimed to provide a forum for the exchange of recent developments and research results amongst researchers and practitioners involved in computational simulation, experimental characterization and field testing for the long term performance of various types of pavements. The Conference topics focused on roads and airport pavements, on geotechnical aspects, as well as on aspects that deal with railways.

Further information: [pennykar@otenet.gr](mailto:pennykar@otenet.gr)



# NC News, Events, Seminars and Conferences



## NORDIC ROAD ASSOCIATION

### NordBalt Seminar on Pavement Design and Performance Indicators

The Nordic Road Association TC 34 Road Structure in partnership with the Baltic Road Association will host a joint seminar on Pavement Design and Performance Indicators.

The seminar will be held in Oslo, Norway, 7 - 8 November. More information about the seminar and other Nordic or joint seminars is published on the NRA website [www.nvfnorden.org](http://www.nvfnorden.org).

The NordBalt Seminars are arranged in cooperation between the Nordic Road Association and the Baltic Road Association ([www.balticroads.org](http://www.balticroads.org)).

### Via Nordica 2008 - Needs, Challenges and Possibilities of Tomorrow

The 20th Via Nordica congress will be held from the 9th - 11th June 2008 in Helsinki, Finland. The slogan of



the congress - The Road Ahead - describes the focus on what lies ahead for the road transport system. Many interesting subjects, focusing on future needs, challenges and possibilities have all been placed on the congress agenda.

[www.vianordica2008.fi](http://www.vianordica2008.fi).



## SPAIN

### Conference on Rock Walls

16th November 2007 in Madrid

Recently the Minister of Public Works published a book on "Rock Walls" which the Spanish Technical Committee of Road Geotechnic will present in a monographic session that will be organised in Madrid. It is expected to gather more than 200 road professionals the same attendance as during the II Conference on Marginal Materials for Roads Works held in Seville last March.

### IX Conference on Winter Roads

19th - 21st February 2008 in Vielha

The IX Conferences of Winter Roads continues the series of the National Symposiums that the Spanish Technical Committee of Road Maintenance and Winter Roads are organising in Spain. Vielha will be the host of the Conference next year. Approximately 400 delegates are expected to attend the congress over three days from 19 to 21 February 2008, in Vielha.

Information at: [www.atc-piarc.com/](http://www.atc-piarc.com/)



## CANADA

The 7th International Conference on Managing Pavement Assets in Calgary from June 24 to 28, 2008, will be held in the magnificent Westin Hotel in downtown Calgary. The theme of the Conference, «Preserving what we have... Investing in the Future... Finding the Balance», reflects on the pressures on the Civil Engineering profession to develop infrastructure solutions that are sustainable.



The themes "Managing Pavement Assets" have been selected to reflect recent developments in pavement transportation asset management and to be of interest to researchers and practitioners. All categories of assets related to roads and pavements will be considered including airports, as well as low volume and local roads. Papers dealing with the state of the art, state of the practice and case studies are invited.

Pour de plus amples renseignements : [www.icmpa2008.com](http://www.icmpa2008.com)



## Other NC activities and examples of good practice

### BELGIUM

The daily congestions on the Brussels motorway and the access motorways cause pollution, stress, loss of money and time wasting for road users. The removal of these bottlenecks is a huge challenge for the regional and federal authorities in Belgium and requires urgent attention.

Trying to improve the situation, the Belgian Road Association and the Belgium Road Federation organized a one half-day of study devoted to these problems last June. The president of the ABR and the first delegate of Belgium, Chris Caestecker, welcomed the participants and insisted on the fact that a durable solution is necessary to keep Brussels accessible and to preserve the Belgian economic assets, its central position and its well developed road network.

Thierry Duquenne, director in the Brussels-Capital area, drew up an inventory of the principal causes of the congestions and considered various solutions, going from an adaptation of the capacity and the regional planning, the use of variable message signs and the development of alternative means of transport like the RER and the (light) subway, to the dispersion of the work schedules and actions in favor of teleworking. Encouraging the road user to more often use public transport could contribute to the reduction of traffic congestion, but will not avoid them completely. Large road constructions are a complementary requirement to this issue.



Raf Van den Broeck, engineer at the Flemish government, presented the project START. The project aims to develop the airport as well as new industrial activities, while improving the mobility and the framework of life of the area. It rests on a multimode connection of the airport via the RER, better and more rapid connections within the bus system and a new motorway ring road in the distance of the airport in order to separate the local and international traffic. The looping of the motorway ring road in the south-east of Brussels is another possible solution, but this requires careful thought as for the price, the influence on the environment and the long-term effects.

The Secretary General of the RFB, Yves Decoene, presented some alternative layouts. The administrations not having always the sufficient means, thus Michel Starts, member of the board of directors of "European International Contractors", presented alternative forms of financing, like public-private partnerships. Yvon Loyaerts, Inspector General at the Walloon Ministry of the Equipment and Transport, approached the need for collaboration between the three areas and the Federal government.

After the debate, directed by Claude Van Rooten, Secretary of the ABR, the president of the RFB, Yves Decoene, summarized the conclusions and lessons learned from this half-day.

Contact: [C.vanRooten@brrc.be](mailto:C.vanRooten@brrc.be)

### FRANCE

#### Technical day on "Public transport on fast tracks and motorways"

After the very interesting presentation of a Spanish achievement during the last PIARC world council in Madrid (October 2006), the French PIARC committee decided to dedicate its technical day 2007 to the theme of «Collective transport on fast urban tracks and motorways». On 28th June 2007, about 100 people gathered in the outskirts of Paris to deal with this topic, and listen to the various points of view of the State Road Administration, as well as French and foreign local authorities and public transport companies.

This event on matters not traditionally covering issues of the French National Committee was highly praised by all participants. A CD-Rom (French only) containing all the presentations will be available soon.

Contact: [cf-aipcr@lcpc.fr](mailto:cf-aipcr@lcpc.fr)



# NC Publications and software

## AUSTRALIA AND NEW ZEALAND



Austroads produces a bi-monthly newsletter which is distributed electronically to over 2,500 subscribers. If you would like to receive the newsletter by email, please visit

[www.austroads.com.au/wra\\_australian\\_national.html](http://www.austroads.com.au/wra_australian_national.html) to subscribe.

Austroads produces high quality publications which assist road agencies in the planning, design, construction, maintenance, operation and stewardship of roads.

### Recent releases include:

- Guide to Pavement Technology - Part 4B: Asphalt
- Guide to Project Evaluation - Part 4: Project Evaluation Data

### Technical reports

- Process for Setting Intervention Criteria and Allocating Budgets: Literature Review
- Austroads LTPP and LTPPM Study: Summary Report for 2005/06
- Application of the Analytic Hierarchy Process in Road Asset Management: User Manual

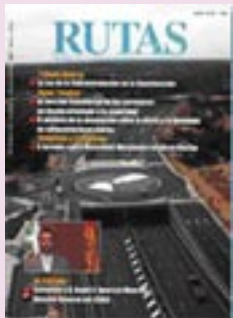
All Austroads publications are available through

[www.onlinepublications.austroads.com.au/script/home.asp](http://www.onlinepublications.austroads.com.au/script/home.asp)

## SPAIN

### Bimonthly Magazine "Rutas" (Roads)

The Spanish National Committee publishes a bimonthly a technical and informative magazine with articles and the news on highways and transportation, open to the contributions from the technicians and authorities related to the sector.



The latest issue covers:

- Laws for subcontractors in road construction
- The cross-sectional section of the highways: a safety-oriented design
- Interurban issues
- An analysis of the entailment between the supply and the demand on road infrastructures
- A day on Marginal Road Materials
- Interview to D. Angel C. Aparicio Mourelo, Chief of a main directorate of the CEDEX

More information: [www.atc-piarc.com/](http://www.atc-piarc.com/)

### Presentation of the publication "The road transversal section: a safety design"

27th September 2007 in Barcelona

Due to the warm reception of the book on "The road transversal section: a safety design" in Madrid last May, the Spanish Technical Committee of Interurban Roads and Interurban Integrated Transport is organising another one-day presentation in Barcelona which is expected to achieve the same success as in Madrid.

### Book on "Brick bridges foundations"



The Spanish Technical Committee on Road Bridges is about to finish a new report about good practices to ensure brick bridges foundations. The percentage of brick structures on the Spanish rail and road networks is, on average, between 30 and 40% and the scour around foundations is one of its main causes of failure of these structures. It is the reason why this publication will be very interesting to maintenance operators.

It is also expected to launch this publication in a presentation next year to inform technicians about the good practices compiled in the publication.

Information at: [www.atc-piarc.com/](http://www.atc-piarc.com/)

## LATEST PIARC TECHNICAL REPORTS

<http://publications.piarc.org/en/technical-reports/>



## C2.1 COMMITTEE

## HOW TO APPLY THE CONCEPTS OF SUSTAINABLE DEVELOPMENT TO TRANSPORT?

This report has been produced by Technical Committee C2.1. Sustainable Development and Road Transport and provides an analysis of “How to apply the concepts of Sustainable Development to Transport?” from the approaches implemented in a few cases – either policies, programmes or projects. These cases were considered to be illustrative, relevant or even exemplary in this regard and which could show both what can be achieved and also what can lead to situations of deadlock.

This analysis of concrete cases involves four categories of examples:

- prior activities that aim to integrate the ideas of sustainable development within road infrastructure: the cases of Finges (Switzerland), the Kaga Route (Japan), the A45 Motorway (France) and the IC6, IC7, IC37 and IC12 itineraries network (Portugal).
- approaches which involve the implementation of transport policies in developing urban areas: the cases of Sapporo (Japan) and Lundby (Sweden).
- approaches which illustrate situations of deadlock arising from a failure to integrate the three areas covered by sustainable development: the road crossing of the “Golestan Jungle” in Iran, the case of the N2 Wild Coast Road in South Africa, the case of the Via Baltica motorway in Poland.
- the implementation of road policies in developing countries: the case of Guinea Bissau (transborder road project), Angola (rehabilitation of the Lubango region road network) and the Cape Verde Islands (rehabilitation of the roads on five islands).

PIARC Reference: 2007R08

Bilingual English-French, 128 pages

ISBN: 2-84060-198-2



## C3.3 COMMITTEE

## INTEGRATED APPROACH TO ROAD TUNNEL SAFETY

Worldwide many new road tunnels are planned or under construction. Besides, international regulations, recommendations and guidelines are being developed. It is widely agreed that there is a need for a framework in which all relevant aspects of tunnel safety are taken into account in an “holistic” way. This includes regulations, infrastructure and operational safety features, safety assessment, tunnel use, operating experiences and safety management.

This report proposes an integrated approach to road tunnel safety, which has been developed in co-operation with the European research projects SafeT and UPTUN. General principles and current perspectives on road tunnel safety are summarised, including practical tunnel project experience. An international survey through PIARC C3.3 members was carried out. An overview is given of current best practice in various countries.

PIARC Reference: 2007R07

Bilingual English-French, 170 pages

ISBN: 2-84060-195-8



## NC Publications and software



### COMMITTEE ON TERMINOLOGY DICTIONARY OF ROAD TERMS IN FIVE LANGUAGES

This eighth edition of the PIARC Technical Dictionary of Road Terms is an extract, taken in May 2007, from the multilingual terminology database made available to the worldwide highways community on the <http://termino.piarc.org> website. This database is constantly updated by PIARC Technical Committee on Terminology and Translation Assistance using contributions from all of the PIARC`s committees and technical working groups.

The extract here comprises 1,684 terms expressed in five languages (in the following order: English, French, German, Spanish and Portuguese). The languages which act as a reference are the technical English used in the United Kingdom and the French used in France. The synonyms used in other English-speaking countries (United States, Canada) or French-speaking countries (Belgium, Canada, Switzerland) are also given. Terms recommended by the International Standards Organisation (ISO) or the technical committees of the European Committee for Standardisation (CEN) are included in this dictionary. However, due to restrictions on space, neither the national or international origin, nor illustrations nor the grammatical attributes of the terms are included in this work. The reader will find them on the website.

The following are given on each line: the term, its definition (or a reference to the main term related to the concept involved), the term`s code and its translation into the four other languages, always set out in the same order.

This dictionary has not been compiled in an alphabetical "jumble", but in accordance with a rigorous methodical classification. Thus by searching for the code for a general term in the classification set out at the end of the work, all the terms will be found that are related to the context under which this general term is recorded.

Online consultation of the <http://termino.piarc.org> website is far more comprehensive than this printed version. It allows you to search for one word or part of a word in one language and displays the results simultaneously in three languages, including the search language. Grammatical attributes, synonyms and their geographical origins, terminology classification and any illustration that accompanies the general term are displayed immediately.

In June 2007, the languages available on the internet were: German, English, Chinese, Spanish, French, Hungarian, Italian, Japanese, Dutch, Portuguese, Russian, Ukrainian, Serbian and Vietnamese. However, some of these languages only include partial translations due to the unavoidable gap between the updating of the terms in the reference languages (English and French) and their translation into other languages. Croat, Greek, Norwegian and Swedish are in preparation for this dictionary.

The website comprises not just this PIARC Technical Dictionary of Road Terms, but also other works that are freely available, including the PIARC Lexicon of Road and Traffic Engineering (more than 14,500 general terms in English, French and Dutch), the dictionary prepared by the PIARC Technical Committee on Winter Maintenance (170 terms in German, English, Danish, Spanish, Finnish, French, Hungarian, Italian, Icelandic and Dutch) and also the Road Transport Informatics Dictionary (ITS) in Danish, German, English, French, Norwegian and Swedish.

Due to the interactivity provided by the internet, you can suggest the addition, amendment or deletion of a term directly through the website. Thus, due to the involvement of the PIARC`s technical committees and everyone`s contributions, this collective work can be made more valuable for the benefit of the greatest number of people.

The main contributors to this eighth edition were: Mrs Paula Freire (Portugal), Mr Hermann Fritz (Switzerland), Mr René Gemme (Canada), Mrs Annelies Glander (Austria), Mrs Cristina Higuera (Spain), Mr Hans-Walter Horz (Germany), Mr David Powell (United Kingdom), Mr Patrice Retour (France, President of the Committee and database administrator) and Mr Daniël Verfaillie (Belgium, joint database administrator).

Reference: 2007R06  
1 184 pages  
ISBN: 2-84060-197-4



## NC Publications and software

### C4.3 COMMITTEE

#### IMPACT OF ROAD CONSTRUCTION AND MAINTENANCE ACTIVITIES ON ROAD USERS AND THE ADJACENT LAND USE



This technical report, prepared by PIARC Technical Committee on Road pavement TC4.3, synthesizes information on techniques to reduce the impact of road construction, rehabilitation and maintenance activities on road users and the adjacent land use.

This report is based on a study made by the Committee in November 2005 in 18 countries which enabled to compare and summarize information and data on noise, safety (road users and construction workers), environmental pollution, vibrations and nuisance generated by road works.

Furthermore, the study describes some innovative procedures developed and implemented.

PIARC Reference: 2007R05

Bilingual English-French, 134 pages

ISBN: 2-84060-194-X

### C3.3 COMMITTEE

#### GUIDE FOR ORGANIZING, RECRUITING AND TRAINING ROAD TUNNEL OPERATING STAFF



The service and quality levels available to the user obviously depend on the nature and performance of the installed equipment. It also depends on how this equipment is operated by the tunnel staff.

This Guide, prepared by PIARC Technical Committee on Road tunnel operation TC3.3, defines the tasks to be carried out to operate a tunnel and the skills required to carry them out. Then, some recommendations in the field of organization, recruitment and training of staff.

In particular, focus is made on continuing education and retraining of staff so as to keep staff motivation high.

PIARC Reference: 2007R04

Bilingual English-French, 122 pages

ISBN: 2-84060-193-1

### C2.1 COMMITTEE

#### SURVEY OF FOCUSED FUNDING OF ENVIRONMENTAL MITIGATION



In the context of road infrastructure as in other topic areas, sound environmental management and social equity is critical to sustainable development. Associated specific funding needs, plans and programmes are also identified.

This document presents the results of an enquiry on focus financing led by PIARC Technical Committee on Sustainable development and road transport TC2.1 whose objectives were:

1. assess how different transportation agencies predict the funding implications of environmental and social outcomes (at policy level and project level);
2. analyse the outcomes of an effective, accurate methodology for predicting future funding levels/needs in respect of environmental and social outcomes.

The report investigates examples in a range of countries where a comparison can be made about the different levels of funding for mitigation.

PIARC Reference: 2007R03

Bilingual English-French, 34 pages

ISBN: 2-84060-191-5

<http://publications.piarc.org/en/technical-reports/>





## NC Publications and software

### SWITZERLAND



#### Always of topicality: Swiss Standards VSS - online

"Standards VSS - online" enable the direct access to the collection of standards VSS via the Internet. If you profit from a subscription to "Standards VSS - online", you have at any hour and in any place access to all the standards concerning planning,

studies, construction, the equipment, maintenance, the use and the dismantling of roads and other installations of transport. All people treating questions of transport within the framework of their profession can benefit from it. Private and Public contractors, representatives of the administrations, planners, architects, collaborators of construction firms but also people in charge of road maintenance will find an essential means in the search for the best solution of technique. The collection of the standards is updated every 6 months.

Information: [www.vss.ch](http://www.vss.ch)

## PIARC Congresses

### FRANCE

#### 23<sup>rd</sup> World Road Congress

17-21 September 2007 in Paris (France)

Information on the congress is available at

[www.paris2007-route.fr](http://www.paris2007-route.fr)



## CANADA-QUÉBEC IN PARIS

The PIARC-Québec committee is coordinating the Québec delegation for the 23rd World Road Congress in Paris. The Minister for Transport, Ms. Julie Boulet, will lead the mission, which should have more than 90 delegates and accompanying persons from both the public and private sectors.

Ms. Boulet will attend the Ministers' Session, and will also promote the 13th International Winter Road Congress, which will take place in Québec City, in February 2010.



The Minister invites the delegates from all the national committees to the official inauguration of the Québec pavilion at 5:30 pm on Tuesday, September 18. Approximately 20 companies will be represented in the pavilion, and an electric car will be on display.

Finally, Canada-Québec will take part in the historical exhibition by presenting on one of the main corridors to Québec's Capitale-Nationale. The presentation will focus primarily on the junction of Highways 20 and 73, near Québec City, as well as the bridges straddling the nearby Chaudière River and the St. Lawrence River.

Your opinions and comments to

Friedrich Zotter: [friedrich.zotter@bmvit.gv.at](mailto:friedrich.zotter@bmvit.gv.at)