



## **ANNUAL REPORT**

***October 2008 – September 2009***



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## 1 President's Foreword

To all members of the World Road Association

At the time of my election as PIARC President in Marrakech in 2008, with the warm hospitality of Morocco's minister for transport and infrastructure, Mr. Karim Ghellab, I had committed myself to devote time and energy to the future of our Association by enhancing the dynamism of our members and the unfailing involvement of the Executive Committee. During this year which opened a new work cycle, it is an honour for me to introduce this annual report. I wish to thank my predecessor, Colin Jordan. During his presidency, he has brilliantly ensured continuity of the work of his predecessors in order to further adapt our Association to the XXIst century. This process has required significant changes in our corporate culture as well as the time and participation of all members.



The work of the General Secretariat is also worthy of mention. Without the dedication of everyone in the team – the Secretary General, the Deputy Secretary General, the permanent staff and the young professionals seconded to PIARC by our members – the projects of the Technical Committees and Commissions could not be achieved with such efficiency.

In its various sections, this Annual Report focuses on the main developments of the past year. I am pleased to invite you to read it. The Annual Report reflects the involvement of the members, but also the unfailing support of their organizations, despite the uncertain current economic situation. I wish to recognize here those members who are prepared to invest time and resources in our Association and thereby contribute to make it an internationally recognized organization. I express my gratitude.

Such commitment reflects the need to exchange and confront ideas and to share successes and failures. The natural affiliation that is created between the experts from various countries lies at the core of the strength of our Association. The work of the 18 Technical Committees is progressing smoothly. Several seminars have already taken place on topics relevant to our audience in the various regions of the world. In addition I wish to acknowledge the work of the National Committees which has enhanced the activities of our Association and contributed to its success.

In the spirit of those who preceded us, it is important to continue to develop the influence of PIARC with its members who allow our Association to exist and be at the forefront of discussion forums. This is a priority action that drives the work of the Executive Committee, which met in Mexico City in March 2009, with the Commissions having convened last May and June. Their work plans have already been finalized and targets have been set for 2010. The new Strategic Theme Coordinators monitor the work of the Technical Committees and lead discussions on strategic topics for the sessions of the Congress in Mexico City.

Preparations for the XIIIth International Winter Road Congress to be held in Quebec City in February 2010 and the XXIVth World Road Congress to be held in Mexico, September 2011 are progressing according to plan. The Protocol of Agreement setting the terms for the organization of the Congress was signed in Mexico City in March 2009. The experienced and dedicated team of the General Secretariat provides their effective support.



PIARC was born from the will of governments to promote roads as the driving force of economic and social development. The work of Technical Committees has supported that perspective and has provided new ideas for road network management. Today, the Association's focus is shifting to sustainable mobility in order to achieve a delicate balance between economic development, community issues and preservation of the environment. Roads are no longer an end in themselves – they represent an essential and strong link among the other systems that need to be efficiently integrated so as to provide to the users efficient, safe and green mobility.

This shift in focus is clear for many member countries and the Association must develop its thinking and carry out studies in that direction. This shift in perspective started at the Paris Congress and is reflected in the 2008-2011 Strategic Plan.

In order to meet member's expectations and especially open our discussion forum to other regional and international associations, I have identified five objectives:

1. take advantage of the major PIARC events, especially the upcoming congresses in Quebec City and Mexico City, to stimulate the active participation of member governments. Their participation will enable in-depth exchanges on priority topics, adjustment of work programs to meet specific needs and the pooling of necessary resources;
2. develop services and products directly linked to the members' needs, from both the point of view of the content and dissemination of the information;
3. fully involve National Committees in the ongoing discussions and work of the commissions and encourage the creation of new National Committees;
4. promote careers in the area of transportation and attract young professionals to join in the discussions on sustainable mobility;
5. monitor and control expenses and seek new financing sources to ensure a sustainable future for the Association and enable it to fund associated projects.

It is with great pride that I invite you to participate in each of the projects resulting from the work of the Technical Committees, Commissions and National Committees, i.e. reports, seminars, and special initiatives. The purpose of our Association is to continue its outstanding work by contributing to improve the quality of life of road users around the world.

Setting ambitious targets in the area of sustainable mobility leaves no option but to innovate, to question current practice and to seek balance. Your Association is responding to this challenge and with the involvement of everyone, we hope to succeed! As President of this Association, I am honoured to have the opportunity to discuss your areas of concern and make every effort to meet your expectations. With the support of the dedicated and determined members of the Executive Committee and that of the Secretary General, I am very optimistic of this new cycle and the opportunities it will bring.

**Anne-Marie LECLERC**  
President of the World Road Association (PIARC)

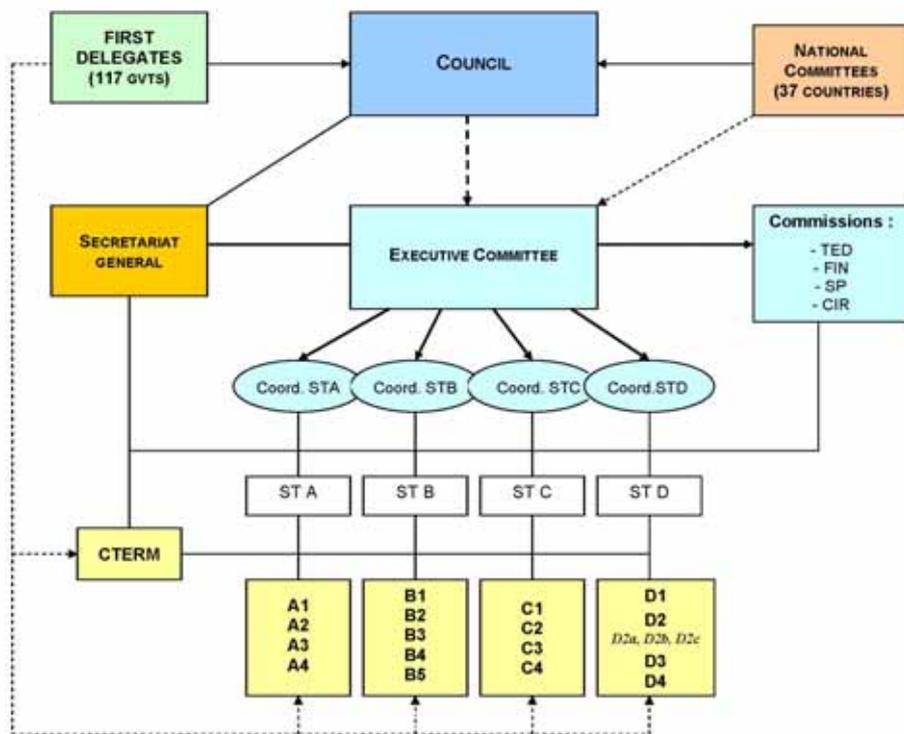


## 2 PIARC in 2009

### 2.1 Organisation

The World Road Association (PIARC), a non-profit organization, was formed in 1909. PIARC is the oldest international association concerned with road policy, road technology and management of road networks. PIARC holds a unique place as an international forum for information and knowledge exchange on all issues related to road network infrastructure, public policies, financing, operation and development.

The current structure of the organization is presented below.



PIARC Structure as at 1st September 2009



## 2.2 Governing bodies

The overall responsibility for the Association is in the hands of the World Road Association Council. At the Council meeting on 29 and 30 October 2008 in Marrakech (Morocco), 102 delegates, representing 42 member countries were present.

As at 1<sup>st</sup> September 2009, the Executive Committee comprises the following membership:

- President: Anne-Marie LECLERC (Canada-Québec),
- Immediate Past President: Colin JORDAN (Australia),
- Vice Presidents: Oscar DE BUEN RICHKARDAY (Mexico), Keiichi INOUE (Japan) and Marc PAPINUTTI (France),
- Members: Jim BARTON (United Kingdom), Francisco CRIADO (Spain), Dong-chang DAI (People's Republic of China), Mario FERNANDEZ (Chile), Riccardo FORMICA (Italy), Hreinn HARALDSSON (Iceland/NRA), Joseph HAULE (Tanzania), Menno HENNEVELD (Australia), Tchona IDOSSOU (Burkina Faso), Abdul Karim JUDIN (Malaysia), Jai-Soo KANG (Republic of Korea), Josef KUNZ (Germany), Gheorghe LUCACI (Romania), Gunyasiwe MAKAULA (South Africa), Carlo MARIOTTA (Switzerland), Hicham N'HAMMOUCHA (Morocco), Julio Cesar ORTIZ (Argentina), Jeffrey PANIATI (United States), Claude VAN ROOTEN (Belgium), Virgaudas PUODZIUKAS (Lithuania/BRA) and Friedrich ZOTTER (Austria), Representative of the Conference of National Committees.
- Secretary General: Jean-François CORTÉ (France).

During 2009 the Executive Committee has received two resignations:

- Bryce CONRAD (Canada) (*change in position*),
- Peter PENGAL (Slovenia) (*retired*).

Four Commissions, chaired by nominated members of the Executive Committee, assist the activities of the Executive Committee:

- Strategic Planning Commission, chaired by Jim BARTON (United Kingdom),
- Finance Commission, chaired by Carlo MARIOTTA (Switzerland),
- Communications and International Relations Commission, chaired by Menno HENNEVELD (Australia),
- Commission on Technological Exchanges and Development, chaired by Abdul Karim JUDIN (Malaysia).



## 2.3 Members

There are five categories of PIARC members: national governments, regional authorities, collective members, individual members and honorary members.

As at 1st September 2009, *PIARC member countries include 117 national member governments*, from around the world. Approximately two thirds of the member countries are developing countries or countries in transition. In addition, there are approximately 2,000 other members (about half of which are individual members) from nearly 140 countries.

### PIARC National Member Governments (1st September 2009)

ALGERIA	CÔTE D'IVOIRE	LATVIA	RUSSIA
ANDORRA	CROATIA	LITHUANIA	SALVADOR)
ANGOLA	CUBA	LUXEMBOURG	SAUDI ARABIA
ARGENTINA	CZECH Rep.	MADAGASCAR	SENEGAL
AUSTRALIA	DENMARK	MALAYSIA	SINGAPORE
AUSTRIA	DOMINICAN Rep.	MALI	SLOVAK REPUBLIC
AZERBAIJAN	ECUADOR	MAURITANIA	SLOVENIA
BANGLADESH	EGYPT	MAURITIUS	SOUTH AFRICA
BELGIUM	ESTONIA	MEXICO	SPAIN
BENIN	FINLAND	MOLDAVIA	SRI LANKA
BHUTAN	FRANCE	MONACO	SWAZILAND
BOLIVIA	GABON	MONGOLIA	SWEDEN
BRAZIL	GERMANY	MOROCCO	SWITZERLAND
BULGARIA	GHANA	NAMIBIA	SYRIA
BURKINA FASO	GREECE	NEPAL	TANZANIA
BURUNDI	GUATEMALA	THE NETHERLANDS	THAILAND
CAMBODIA	GUINEA	NEW ZEALAND	TOGO
CAMEROON	HONDURAS	NICARAGUA	TONGA
CANADA	HUNGARY	NIGER	TUNISIA
CANADA-QUEBEC	ICELAND	NORWAY	TURKEY
CAPE VERDE	INDIA	PAKISTAN	UGANDA
CHAD	INDONESIA	PANAMA	UKRAINE
CHILE	IRAN	PAPUA NEW GUINEA	UNITED KINGDOM
CHINA (PEOP. REP.)	IRELAND	PARAGUAY	UNITED STATES
COLOMBIA	ISRAEL	PERU	URUGUAY
CONGO (REP.)	ITALY	PHILIPPINES	UZBEKISTAN
CONGO (DEM REP)	JAPAN	POLAND	VENEZUELA
COSTA RICA	KENYA	PORTUGAL	VIET NAM
	KOREA (Rep.)	ROMANIA	YEMEN
	KUWAIT		ZIMBABWE



## 2.4 National Committees

In several member countries, National Committees have been established to disseminate the results of PIARC activities, provide leadership within the road community on a national level, contribute towards ensuring more participation in the activities of PIARC and to ensure a wider distribution of the work of Technical Committees. The representatives of the National Committees meet once a year in conjunction with the Council meeting.

As at 1st September 2009, PIARC has 33 **National Committees** that are operating in 37 countries. Austroads and the Nordic Road Association (NVF) are acting in the capacity of a PIARC National Committee.

### PIARC National Committees (as at 1<sup>st</sup> September 2009)

Algeria	Canada	Japan	Portugal
Argentina	Canada-Quebec	Korea (Rep.)	Romania
Austroads ( <i>Australia,</i>	Congo (Rep.)	Madagascar	Senegal
<i>New Zealand</i> )	Czech Republic	Mali	Slovak Republic
Austria	France	Mexico	Slovenia
Belgium	Germany	Morocco	Spain
Benin	Greece	NVF ( <i>Denmark,</i>	Switzerland
Burkina Faso	Hungary	<i>Finland, Iceland,</i>	United Kingdom
Cameroon	India	<i>Norway, Sweden</i> )	
	Italy		

## 2.5 General Secretariat

As at 1<sup>st</sup> September 2009, the PIARC General Secretariat includes:

- a Secretary General and a Deputy Secretary General seconded by France,
- four Technical Advisers seconded from Austroads, Japan, the Nordic Road Association (NVF) and Spain, for a period ranging from nine months to two years,
- seven permanent staff who are remunerated by PIARC.

For the past year, the movements among the technical advisers were as follows:

- Toussaint AGUY (Côte d'Ivoire) left the General Secretariat in November 2008;
- Fredrik FRIBERG (NVF, Sweden) has been replaced by Sanna KOLOMAINEN (NVF, Finland) from December 2008;
- Michelle BARAN (Austroads, Australia) has been replaced by Jeremy KALTENRIEDER from March 2009 ;
- Masamitsu WAGA (Japan) has been replaced by Masaki TSUBOUCHI (Japan) from October 2008.

Miguel CASO-FLOREZ (Spain) has been working at the General Secretariat since 2005.



### 3 Strategic Plan 2008-2011

The 2008-2011 PIARC Strategic Plan, which was approved by the Council in Marrakech in November 2008, sets whole-of-organization objectives and structures the activities of the Technical Committees in four “Strategic Themes”, each one led by a coordinator nominated from the Executive Committee.

#### The Strategic Themes for the 2008-2011 period

<b>Strategic Theme A - Sustainability of the Road Transport System</b>	
Objective	Encourage the development of road transport policies and programmes that result in beneficial community outcomes for sustainable and safe mobility in economic, environmental and social terms, with special attention paid to energy issues and the mitigation of the impacts on climate from the road transport system.
Coordinator	<i>Dong Chang DAI (China) until June 2009</i>
<b>Strategic Theme B - Improving Provision of Services</b>	
Objective	Encourage the improvement of services provided to the community by improved operation of the road transport system, integration with other transport modes, good governance and a customer-oriented approach.
Coordinator	<i>Keiichi INOUE (Japan)</i>
<b>Strategic Theme C - Safety of the Road System</b>	
Objective	Improve the safety and efficiency of the road system, including the movement of people and goods on the network, while effectively managing the risks associated with road transport operations and the natural environment.
Coordinator	<i>Jeffrey PANIATI (United States)</i>
<b>Strategic Theme D - Quality of Road Infrastructure</b>	
Objective	Improve the quality of road infrastructure through the effective management of assets in accordance with user expectations and managers' requests.
Coordinator	<i>Gheorghe LUCACI (Romania)</i>

The table (following page) includes the list of the 18 PIARC Technical Committees (TC), Chairs, and English, French and Spanish speaking Secretaries. Seventeen Technical Committees are associated with one of the four Strategic Themes above, while the Committee on Terminology is directly linked to the General Secretariat.

The TCs were established in March-April 2008. On average, they have held three meetings to date.



**Chairs and Secretaries of PIARC Technical Committees, 2008-2011 cycle**

	<b>Chairs</b>	<b>French-speaking Secretary</b>	<b>English-speaking Secretary</b>	<b>Spanish-speaking Secretary</b>
<b>Terminology</b>	Daniel VERFAILLIE (BE)	Bernard LOMBARDI (FR)	Martin LAMB (GB)	Cristina HIGUERA (ES)

**ST A - Sustainability of the Road Transport System**

A.1 Preserving the Environment	Simon PRICE (GB)	Agnès JULLIEN (FR)	Lisa ROSSITER (NZ)	Juan Fernando MENDOZA (MX)
A.2 Financing, Managing and Contracting of Road System Investment	Henri CHUA (GB)	Samira IRSANE-SEMAAN (FR)	Mike GOODALE (CA)	Gerardo GAVILANES (ES)
A.3 Road System Economics and Social Development	Alberto COMPTE (ES)	Maxime JEBALI (FR)		Guillermo TORRES (MX)
A.4 Rural Road Systems and Accessibility to Rural Areas	Dennis ROSSMANN (SA)	Tiraogo OUEDRAOGO (BF)	Eric SICKAM (PG)	Enrique Leon DE LA BARRA (MEX)

**ST B - Improving Provision of Services**

B.1 Good Governance of Road Administrations	Paul VAN DER KROON (NL)	André BERNARD (FR)	Brendan NUGENT (AUS)	Carmen PICON (ES)
B.2 Road Network Operations	Martial CHEVREUIL (FR)	Alexis BACELAR (FR)	Richard HARRIS (GB)	Juan Othon MORENO (MX)
B.3 Improved Mobility in Urban Areas	Hubert PEIGNE (FR)	Marc ELLENBERG (FR)	Anita CURNOW (AU)	Cecilia OLAGUE (MX)
B.4 Freight Transport and Inter Modality	Hans SILBORN (NO)	Benoit CAYOUEUETTE (CA-QC)	Cecil SELNESS (US)	Ester FERNANDEZ (ES)
B.5 Winter Service	Gudrun OBERG (SE)	Didier GILOPPE (FR)	Paul PISANO (US)	José DEL PINO ALVAREZ (ES)

**ST C - Safety of the Road System**

C.1 Safer Road Infrastructure	H.J. VOLLPRACHT (DE)	Lise FOURNIER (CA-QC)	John DOUGLAS (AU)	Roberto LLAMAS (ES)
C.2 Safer Road Operations	Ahmad FAHRAN Mohd Sadullah (MY)	Etienne WILLAME (BE)	Paul GUTOSKIE (CA)	Jesus LEAL (ES)
C.3 Managing Operational Risk in Road Operations	Michio OKAHARA (JP)	Johanne LEGAULT (CA-QC)	Hiroyuki NAKAJIMA (JP)	Gustavo MORENO (MX)
C.4 Road Tunnel Operations	Pierre SCHMITZ (B)	Alexandre DEBS (CA-QC)	Robin HALL (GB)	Ignacio DEL REY (ES)

**ST D - Quality of Road Infrastructure**

D.1 Management of Road Infrastructure Assets	Anita KÜNKEL-HENKER (DE)	Ghislaine BAILLEMONT (FR)	Mick LORENZ (AU)	Jose ORTIZ (CO)
D.2 Road Pavements	Michel BOULET (FR)	Guy TREMBLAY (CA-QC)	Suneel N. VANIKAR (US)	
<i>D.2.a. Road surface characteristics</i>	Francesca LA TORRE (IT)	Luc-Amaury GEORGE (FR)	Peter BRYANT (AU)	Rodolfo TELLEZ (MX)
<i>D.2.b Flexible and semi-rigid pavements</i>	David HEIN (CA)	Marie-Thérèse GOUX (FR)	Hyun Jong LEE (KR)	Rafael LIMON LIMON (MX)
<i>D.2.c Concrete pavements</i>	Raymond DEBROUX (BE)	Robert MESNARD (FR)	Anne-Séverine POUPELEER (BE)	Juan José OROZCO (MX)
D.3 Road Bridges	Satoshi KASHIMA (JP)	Pierre GILLES (BE)	Brian HICKS (CA)	Pablo DIAZ (ES)
D.4 Geotechnics and Unpaved Roads	Martin SAMSON (CA)	Jean-Claude AURIOL (FR)	Alex KIDD (GB)	Paul GARNICA (MX)



## 4 Activities from end October 2008 to September 2009

### 4.1 Executive Committee

The Executive Committee manages the Association in accordance with the guidelines and decisions adopted by the Council. In the course of the past year, meetings were held in Marrakech on 30 October 2008, then on 4-5 March 2009 in Mexico City (Mexico). Also, a restricted Executive Committee meeting took place on 5 June 2009 in Glasgow (United Kingdom).

The Executive Committee has proceeded to designate the Chairs and members of the Commissions for the 2009-2012 cycle and has approved the outline of the action plans and work programmes of the Commissions (*Note: detailed information is provided in the documents prepared by the Commission Chairs for the Council meeting*).



The Executive Committee has also reviewed the Technical Committee's work programmes for the 2008-2011 cycle in accordance with the Strategic Plan. Recommendations have been made for the finalization process.

The Congress Handbook Mexico 2011 has been discussed and approved, as well as the terms of reference of the call for candidacies to host the XIV<sup>th</sup> International Winter Road Congress in 2014.

The Executive Committee has defined an action plan to celebrate the PIARC centenary. Accordingly, proceedings will take place at the Council meeting in Incheon and at events organized in various member countries. This will serve to emphasize the Association's achievements over the last one hundred years as well as its continued relevance and prospective nature of its work. In addition, the General Secretariat has planned to publish a book that will provide an overview of the past hundred years.

#### 4.1.1 Strategic Planning Commission

The Strategic Planning Commission, chaired by Jim BARTON, met for the first time on 3-4 June 2009 in Glasgow (United Kingdom). During that meeting, the work program was refined. The Commission is responsible for:

- monitoring the implementation of the current Strategic Plan,
- developing the technical programme of the World Congress in Mexico City in 2011,
- reviewing the statutory documents,
- preparing the Strategic Plan for the 2012-2015 period.

The Commission is to make proposals regarding the implementation of a quality process for the Technical Committees' outputs. The Commission will also suggest means to enable a quicker start-up of activities at the beginning of a work cycle.

In view of the preparation of the 2012-2015 Strategic Plan, the Commission will proceed to collect and review strategic direction documents of the road administrations of member countries as well as that of several organizations active in the domain of road transportation.

The Strategic Planning Commission will meet in Incheon in September 2009.



#### **4.1.2 Finance Commission**

The Finance Commission, chaired by Carlo MARIOTTA, met on 4-5 May 2009 and on 27-28 July 2009 in Zurich (Switzerland). The meetings were devoted to the review of:

- the 2008 accounts,
- the implementation of the 2009 budget,
- the draft budget for 2010,
- financial aspects related to the Mexico City Congress and the Winter Road Congress to be held in 2014.

The Commission is also responsible for considering the definition of procedures for planning projects in partnership with other organizations in order to increase opportunities for action by the Association.

#### **4.1.3 Communication and International Relations Commission**

The Communication and International Relations Commission, chaired by Menno HENNEVELD, met for the first time on 2-3 June 2009 in Glasgow (United Kingdom). The meeting facilitated improvement of the work program in relation to the overarching objectives set to the Commission, i.e:

- increase awareness and recognition of the Association as an international forum for the exchange of information and technologies;
- widely disseminate the results of the work of Technical Committees,
- increase membership.

To achieve these objectives, the Commission will work on the following aspects:

- develop a communications and marketing strategy for the Association;
- review the means of communication (website, Routes/Roads magazine);
- increase member country participation in activities and collaboration with other international bodies.

The Communication and International Relations Commission will meet in Incheon in September 2009.

#### **4.1.4 Technological Exchanges and Development Commission**

The Technological Exchanges and Development Commission, chaired by Abdul Karim JUDIN, met for the first time on 27-28 April 2009 in Kuala Lumpur (Malaysia). The Commission finalized its work programme, which includes:

- overseeing the Association's policy on knowledge Exchange,
- development of a draft Knowledge Exchange System, following the discussions during the previous cycle to replace the Technology Transfer Centre programme and the World Interchange Network,
- monitoring the programme of international seminars and the use of the Special Fund,
- developing and undertaking dialogue with other international bodies in the area of technology exchange and development.

The Commission on Technological Exchanges and Development will hold its second meeting in Incheon in September 2009.



## 4.2 Conference of PIARC National Committees

Chairman of the Conference of National Committees, Friedrich ZOTTER (Austria) who was re-elected in Marrakech in 2008, provided the impetus for the activities of the National Committees which have continued over the last twelve months.

An action plan for the 2008-2012 period has been submitted to the Executive Committee for approval. The objectives are as follows:

- to better understand, within the various National Committees, the nature of the association's members and their motivations,
  - further improve the flow of information among the National Committees,
  - encourage the creation of new National Committees,
  - coordinate the participation of National Committees in the World Road Congress in Mexico City in 2011.



The Newsletter of PIARC National Committees provides a link and a means to promote the activities of the various PIARC National Committees. It is a quarterly newsletter published in English, French and Spanish. It is formatted by the General Secretariat prior to publication on the website and dissemination. Issue number 17 was circulated in June 2009.

National Committees have committed themselves to the organization of activities in 2009 celebrating PIARC's centenary and promoting the association's missions and activities.

## 4.3 General Secretariat

In addition to the administrative support provided by the General Secretariat to the Association's bodies, the day-to-day running of the Association, the publication of the quarterly magazine of the Association, *Routes/Roads*, it is worth pointing out the following actions in the past year (detailed in the following pages):

- **preparation of the next international Winter Road Congresses: for the XIII<sup>th</sup> Congress in Quebec City, February 2010, implementation of the online applications for the receipt and processing of the individual papers submitted (see paragraph 4.4.1);**  
*For the XIV<sup>th</sup> Congress in 2014, call for candidacies and review of the bids received in view of the vote by the Council in September in Incheon;*
- **preparation of the XXIV<sup>th</sup> World Road Congress in Mexico City in 2011** – preparation of the Congress Handbook; support to the local organizers; actions to promote the Congress (see paragraph 4.4.2);
- **support to the development of activities of Commissions, to the Theme Coordinators and to Technical Committees for the 2008-2011 cycle** - call for nomination of members to the Commissions; support to the new Committees regarding the organization of meetings and seminars (see paragraph 4.5.1);



- **publication of the Technical Committee reports from the 2004-2007 work cycle** (see paragraph 4.7);
- **cooperation with partner associations and organizations** - follow-up and development of new actions (see paragraph 4.8);
- **to mark the PIARC centenary**, the General Secretariat will complete in 2009 the digitization of the proceedings of all World Road Congresses organized since 1908 and make them available on the website. A publication presenting an overview of the Congresses over the last hundred years will also be released;
- **HDM-4 software for road investment analysis**: production of a Spanish version of the software has started; an advisory committee has been established: follow-up and review of the activities of the concessionaire.

## 4.4 PIARC Congresses

### 4.4.1 XIII<sup>th</sup> International Winter Road Congress (Quebec City, 8-11 February 2010)

The second announcement and registrations are available on line since 1<sup>st</sup> June 2009 on <http://www.piarcquebec2010.org/>.

The general theme of the Congress is « Sustainable winter service for road users ». The program markedly includes a Ministers' session entitled « How to promote winter mobility adapted to the climate? », and a Winter city mayors' session sponsored by the City of Quebec. Another highlight will be the International Snowplow Championship. All PIARC member countries having to face the challenges of winter have been invited to these events.



The XIII<sup>th</sup> Winter Road Congress is organized jointly by Canada-Quebec through its Organizing Committee, by the PIARC General Secretariat, and by Technical Committee B.5 which is responsible for the technical content of the Congress and the management of all technical sessions.

### 4.4.2 XXIV<sup>th</sup> World Road Congress (Mexico City, 25-30 September 2011)

The protocol of agreement was signed by Juan Francisco Molinar Horcasitas, minister of communications and transport of Mexico and Anne-Marie Leclerc, PIARC President, at the Executive Committee meeting in Mexico City in March 2009.

The Mexican organizing committee of the Congress is chaired by Rodolfo Felix. A dedicated website is now operational ([www.aipcrmexico2011.org](http://www.aipcrmexico2011.org)) and the Congress logo has been approved.



The issue of registration rates has been considered and submitted to the Council for approval at the meeting in Incheon.

In addition, the Organizing Committee has developed communication, marketing and sponsoring strategies. The main arrangements regarding logistics (conference centre, hotels, etc.) have been made.



## 4.5 Technical Committees

### 4.5.1 Finalization of work programmes for 2008-2011

Over the past year, the Technical Committees were able to start their work, following the first meetings organized in April 2008 in Paris. Technical Committees are now in place and have established working groups.

In conjunction with the Theme Coordinators, the Technical Committees have finalized their work programmes, which have been reviewed and approved by the Executive Committee in early March 2009.

### 4.5.2 Seminars in developing countries and countries in transition

Twenty-five PIARC international seminars were organized during the 2004-2007 period, including three joint seminars organized by several Technical Committees.

The 2008-2011 Strategic Plan has renewed the objective set for Technical Committees to organize two seminars during the current work cycle. By the time of the Council meeting in Incheon 5 seminars have been held. Almost twenty seminars are planned or in progress (see schedule of seminars in Annex 2). Therefore, the objective set seems realistic.



For these seminars, opportunities to cooperate with regional and international organizations are and will be encouraged (AGEPAR, ARMFA and SADC in Africa; DIRCAIBEA in Latin America; REAAA for Asia and Australasia).

## 4.6 Improvements to the PIARC website [www.piarc.org](http://www.piarc.org)

The website is at the heart of communication and operations of the Association. The various improvements introduced over the past year were aimed to improve the design and the ease of use, taking advantage of new technological possibilities:

In the public area, pages (Virtual Library, Terminology application, World Interchange Network, etc.) have been redesigned according to new graphics.

New functionalities have been added:

- it is now possible to access the presentations made during the PIARC seminars;
- pages about PIARC software have been introduced;
- a contact address has been added for visitors wishing to have further information on professional training organizations (administered by Quebec).

Since these reconfigurations, the number of visitors to the various pages of the website is relatively stable. Statistical tools make it possible to obtain detailed figures about the number of visitors.

Regarding the public area of the website ([www.piarc.org](http://www.piarc.org)), the average figures over the last twelve months (early June 2008 to May 2009), are as follows:

- 5,800 visits/month,
- 17,200 visited pages/month,

with peaks of 350 visits/day.

In addition, the statistics regarding the pages, (i.e. Virtual Library, Terminology, the Directory of Professional Training Organizations) are as follows (monthly average over the first half of 2009):

#### Virtual Library

- 2,600 visits/month
- 16,500 visited pages/month

#### Terminology

- 1,500 visits/month
- 15,000 visited pages/month



#### Directory of Professional Training Organizations

- 240 visits/month
- 850 pages/month.

## 4.7 Publications

### 4.7.1 Reports

The list of the 55 reports produced by the Technical Committees for the 2004-2007 cycle is included in Annex 1. Almost all these documents are published or in final publishing phase. They are available free of charge to everyone in the Virtual Library of the PIARC website.

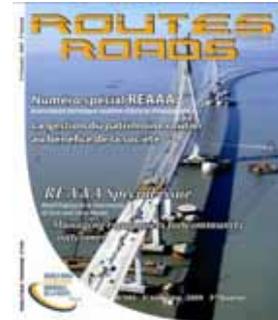
All new publications released are announced in the PIARC Newsletter, as well as in a dedicated e-mail circulated to the First Delegates and National Committees, with a summary of the contents of the reports.



#### 4.7.2 Routes/Roads magazine

The quarterly magazine Routes/Roads is published in English and French. The number of copies printed is 5700 and it is circulated in 142 countries. Among the issues published in 2009, it is worth highlighting:

- the production of a Spanish/Portuguese edition of issue 339 (3rd quarter 2008, circulated in early 2009), in cooperation with the Council of Iberian and Ibero-American Road Directors (DIRCAIBEA) which was devoted to funding and maintenance issues of road infrastructure in Latin-American countries.
- production of a special issue (July 2009), prepared in cooperation with the Road Engineering Association of Asia and Australasia (REAAA), devoted to managing road assets for community outcomes in REAAA countries.



### 4.8 Cooperation with other associations/organizations

Cooperation actions with our partners have developed further. The main events were:

- AGEPAR (Association of African Road Managers and Partners) and ARMFA (African Road Maintenance Funds Association): joint preparation of a PIARC international seminar (TC A.2 Financing, Managing and Contracting of Road System Investments) on road maintenance technical management and financing, which took place in December 2008 in Ouagadougou (Burkina Faso);
- the World Bank: discussion on the prospects for development of the HDM-4 software;
- Conference of European Directors of Roads (CEDR): participation in the meetings of the PIARC Council and Executive Committee;
- Council of Iberian and Ibero-American Road Directors (DIRCAIBEA): publication of Routes/Roads n° 339 on DIRCAIBEA in Spanish and Portuguese ;
- Organization for Economic Co-operation and Development (OECD): regular contacts are maintained for exchanging information on current activities and projects; participation of OECD in Technical Committee C.1 – Safer Road Infrastructure;
- Road Engineering Association of Asia and Australasia (REAAA): participation in the REAAA Council meeting in Bali (Indonesia); a new *Memorandum of Understanding* has been prepared; joint meetings in Incheon (Korea) in September 2009 ;
- Baltic Road Association: participation of the General Secretariat in the International Baltic Road Conference in August 2009 in Riga;
- *Transportation Research Board (TRB)*: participation in January 2009 of the General Secretariat in the TRB annual meeting in Washington, DC; PIARC congresses were promoted at the exhibition;
- International Road Federation (IRF): contacts made in view of the participation of PIARC in the next IRF conference in 2010 in Portugal.



PIARC Technical Committees are working actively with other organizations, including:

- AASHTO - *American Association of State Highway & Transportation Officials*,
- ITA/AITES - *International Tunnelling and Underground Space Association*,
- Cembureau – the *European Cement Association*,
- Eurobitume - the *European Bitumen Association*,
- FIA - *Fédération internationale de l'automobile*,
- FISITA - *International Federation of Automotive Engineering Societies*,
- GRSP - *Global Road Safety Partnership*
- IRF - *International Road Federation*,
- ITE - *Institute of Transportation Engineers*,
- ILO - *International Labour Organization*,
- WHO – *World Health Organization*,
- SATTC - *Southern Africa Transport and Communication Commission*
- ...



## Annex 1 - List of Technical Committee publications for the 2004-2007 cycle

available  in editing process

### Committee on Terminology

Technical Dictionary of Road Terms – 8<sup>th</sup> edition, 5 languages (2007-R06), printed format (English, French, German, Spanish, Portuguese)

Total: 1 publication

### ST1 GOVERNANCE AND MANAGEMENT OF THE ROAD SYSTEM – TECHNICAL REPORTS

#### C1.1 Road System Economics

The use of monetised values for socio-environmental impacts of road projects (2008-R19)

Recommendations for users in the application of multimodal appraisal systems (2009-R04)

Pricing as a tool for funding and regulation in an equity's perspective (2009-R05)

#### C1.2 Financing Road System Investment

Transportation infrastructure financing for sustainable development (2008-R16)

#### C1.3 Performance of Road Administrations

Good governance and integrity (**currently being edited by the Technical Committee**)

The application of performance indicators (**currently being edited by the Technical Committee**)

Development of human resource skills (**currently being edited by the Technical Committee**)

#### C1.4 Management of Network Operations

ITS Handbook 2<sup>nd</sup> edition (available in English, French, Chinese, Spanish) (2006)

Introduction to road network operations and its component activities (CD ROM) (2007-R10)

Total: 9 reports (including 1 CD ROM and 1 Handbook), of which 6 are published and 3 in editing process (as at 13 July 2009).

### ST2 SUSTAINABLE MOBILITY – TECHNICAL REPORTS

#### C2.1 Sustainable Development and Road Transport

Social and environmental approaches to sustainable transport infrastructures (2007-R01)

Survey of focused funding of environmental mitigation (2007-R03)

How to apply the concepts of sustainable development to transport? (2007-R08)

#### C2.2 Interurban Roads and Integrated Interurban Transport

Sustainable interurban roads for tomorrow

#### C2.3 Urban Areas and Integrated Urban Transport

Sustainable transport in the megacities (2008-R09)

Human powered transport (2008-R10)

Congestion in urban areas

#### C2.4 Freight Transport and Intermodality

Measures promoting alternatives to the road and intermodal terminals (2007-R02)

Mitigation of negative impacts of increased movement of freight (2008-R13)

Total: 9 reports, of which 7 are published and 2 in editing process (as at 13 July 2009).



<b>ST3 SAFETY AND ROAD OPERATIONS – TECHNICAL REPORTS</b>
<b>C3.1 Road Safety</b>
Road safety audit guidelines for safety checks of new road projects
Human factors guideline for safer road infrastructure (2008-R18)
Taking advantage of infrastructure technologies and intelligent vehicles to improve road safety
Road accident investigation guidelines for road engineers
Road safety inspection guidelines
Catalogue of design safety problems and potential countermeasures
<b>C3.2 Risk Management for Roads</b>
Towards development of a risk management approach
<b>C3.3 Road Tunnel Operations</b>
Guide for organizing, recruiting and training road tunnel operating staff (2007-R04)
Integrated approach to road tunnel safety (2007-R07)
Risk analysis for road tunnels (2008-R02)
Management of the operator - Emergency teams interface in road tunnels (2008-R03)
Road tunnels: a guide to optimising the air quality impact upon the environment (2008-R04)
Road tunnels: an assessment of fixed fire fighting system (2008-R07)
Urban road tunnels - Recommendations to managers and operating bodies for design, management, operation and maintenance (2008-R15)
Human factors and road tunnel safety regarding users (2008-R17)
Tools for road tunnel safety management
Direction signing on a route incorporating tunnels
Road tunnels: operational strategies for emergency ventilation
<b>C3.4 Winter Maintenance</b>
Snow and Ice Databook (2006)
Increasing customer orientation in the winter maintenance of roads (2008-R08)
Roadway winter maintenance support systems and information exchange (2008-R20)
Overview of winter maintenance contracts (2009-R01)

Total: 22 reports, of which 13 are published and 9 in editing process (as at 13 July 2009).



<b>ST4 QUALITY OF ROAD INFRASTRUCTURE – TECHNICAL REPORTS</b>
<b>C4.1 Management of Road Infrastructure Assets</b>
Integration of performance indicators (2008-R06)
Asset management practice (2008-R11)
<b>C4.2 Road/Vehicle Interaction</b>
Evaluating the performance of automated pavement cracking measurement equipment (2008-R14)
Managing surface condition to limit loss of skid resistance ( <b>currently being edited by the Technical Committee</b> )
Managing road evenness ( <b>currently being edited by the Technical Committee</b> )
Inventory of the techniques and monitoring of the road and road databases
<b>C4.3 Road Pavements</b>
Impact of road construction and maintenance activities on road users and the adjacent land use (2007-R05)
Review of the growth and development of recycling in pavement construction (2008-R05)
Long life pavements and success stories (2009-R06)
<b>C4.4 Bridges and Related Structures</b>
Improvement of durability in design and construction
Increasing the durability and lifetime of existing bridges
Priorisation of bridges rehabilitation work
<b>C4.5 Earthworks, Drainage and Subgrade</b>
Promoting optimal use of local materials (2007-R09)
Indicators representative of the condition of geotechnical structures for road asset management (2008-R01)
Anticipating the impact of climate change on road earthworks (2008-R12)

Total: 15 reports, of which 9 are published and 6 in editing process (as at 13 July 2009).



## Annexe 2 - List of Seminars held during the 2004-2007 cycle



Workshop



PIARC International Seminar

Technical Committee	Topic	Place	Date
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### 2008 (held)

C.1 + C.2	Workshop: Safer road infrastructure and operation	Kuala Lumpur (Malaysia)	22 October 2008
A.2	Road maintenance management techniques and financing methods	Ouagadougou (Burkina Faso)	2-3 December 2008

### 2009 (held and in progress)

B.3	Workshop: Improved mobility in urban areas	Seoul (Rep. of Korea)	19 March 2009
B.2	Workshop: E transport conference and exhibition	Johannesburg (South Africa)	26 March 2009
A.2	Workshop: Financing of road infrastructures	Rabat (Morocco)	14 April 2009
A.3	Road-toll policies applied or planned in Central and Eastern European Countries	Budapest (Hungary)	6-7 May 2009
D.2 a et b	Maintenance techniques to improve pavement performance	Cancún (Mexico)	24-26 August 2009
A.1 + B.4	Environment and sustainable transport	Timișoara (Romania)	16-18 September 2009
B.5	Technical solutions for sustainable winter service	Hradec Králové (Czech Republic)	7-9 October 2009
A.2	Workshop: Public-Private Partnerships in the Road Sector	Osaka (Japan)	13-14 October 2009
C.1 + C.2	Promoting road safety for vulnerable road users	Cape Town (South Africa)	25-27 October 2009
D.3	Concrete highway bridges	Changshu (Peop. Rep. of China)	22-23 October 2009
D.4	Maintenance of unpaved roads	Cotonou (Benin)	28-30 October 2009
C.3	Risk management for the road sector	Iasi (Romania)	5-7 November 2009
B.1	Management of human resources, governance and contracting	Bamako (Mali)	8-10 December 2009

**2010 (planned)**

A.4	Sustainable maintenance of rural roads	Hyderabad (India)	21-23 January 2010
C.4	Road tunnels	Latin America	2010
C.2	Road safety	Costa Rica	September- November 2010
A.2	Financing of road infrastructure	India	2010
B.3+B.4	Transport, infrastructure, mobility	Chile	2010
C.3	Risk management	Beijing (Peop. Rep. of China)	2010
D.2.c	Concrete roads	Argentina	2010

**2011 (planned)**

A.3	Road systems economics	Bamako (Mali)	February- March 2011
C.4	Sub-sea tunnels	Xiamen (Peop. Rep. of China)	March 2011
B.1+B.2		Malaysia	April 2011
A.4	Rural roads	Panama or Costa Rica	2011
D.1	Management of road infrastructure	<i>Côte d'Ivoire</i>	2011