

Editorial

Saverio Palchetti

Representative of National Committees of the World Road Association

The PIARC Family in Africa

On March 14 2018, the first meeting of the working group “Africa” was held in Casablanca (Morocco). The creation of this group was approved in the 2017 Abu Dhabi meeting of the Executive Committee. Thanks to the availability of the Moroccan government, the Moroccan National Committee (AMPCR) hosted a meeting with the participation of the representatives of the French speaking national African committees. Representatives of 6 National Committees (other 4 apologized) for a total of 20 participants beside the undersigned, the Vice President of AIPCR Cheick DIALLO, the Vice Secretary General of AIPCR Robin SEBILLE and numerous experts present from the engineering world, road and highway management and operation, and universities were present at the meeting.

This meeting was the result of a process which began in Cape Town with my election in 2016 where I gave my commitment towards the problems of PIARC African National Committees (NCs) which continued in 2017 in Abu Dhabi and in Bonn where the First Delegate of Morocco, Mohamed AFECHKAR, proposed to host the first meeting of the group “Africa”. Let me say that the meeting with the African NCs – the first of others I hope - for me was a significant occasion and a success for my mandate.



The meeting was the opportunity to discuss important issues for the NCs of the African countries such as the internal organizational questions, redynamization of the African NCs' participation in the Association's activities, the development of collaboration between African NCs and of the public-private partnerships within the NCs as well as the problems tied to the participation of the African experts at various levels within PIARC.

The main problems of the African countries today in relation to the road network regard the financing, the preservation of the road assets, road maintenance and the problem of mobility. These involve projects that can be dealt with together, benefiting from the cooperation and the possibility of working together to obtain competencies, time and optimizing the efforts for the future development of the African road infrastructure. The meeting was the starting point in order to weave a strong partnership between the African countries and PIARC.

It was acknowledged that in the years, PIARC has accumulated an extraordinary asset such as knowledge not only on a technical level but also on a managerial and project design level. The technological evolution was revised during these years in the road sector from a holistic point of view as required by the local development of the African population.

In Africa, there is a concrete possibility to anticipate the application of advanced financing solutions of public-private partnerships and a road infrastructure model of multi-services and multi-network. The use of local workers and local material produces new economic opportunities and quality of life for the African population. The demographic development of Africa will bring the population by 2050 to more than 1,5 billion of people with a strong concentration in urban areas.

We have to ask ourselves some questions, also as PIARC, so as to be able to give answers to these alarming scenarios of development. We must consider that it is possible to put the road at the center of the new recipe for the local development of the African populations as remembered in the United Nations document – ESCAP *“Making the road sector a key vehicle for sustainable development”* (2016).

What was said for Africa regards more or less all continents and the technical themes discussed are of interest to the whole world. The Casablanca meeting was the occasion to have a general vision of the problems faced thanks to the contribution of the NCs of PIARC. All the participants were carriers of intellectual fineness and of specific considerations. The ability of reflection would have risked to remain unexpressed if we had not had the opportunity to a special meeting enlarged to various external contributions. For the sake of an enrichment of the debate within the Association, we must not be deceived in thinking that this result can be obtained in an automatic way or from the normal and routine PIARC sessions held.

I thank our Moroccan friends for the opportunity to hold a meeting in such a calm and pleasant location where university courses and professional training take place. I believe that one request has clearly emerged in the African meeting that we must take forward as PIARC: the issues of the project design quality in order to transform the project of a road in something more articulated and useful for the development of the local context. One of the common goals (we are a community of NCs) is the integrated vision of infrastructure-transport-energy-communication-territory-environment, in a safety/security context. For this, we can use the Association's heritage, recuperating many activities already carried out by the technical committees.

A last consideration regards the participation to these round tables. The relevance of the ideas expressed makes me think that we cannot "bureaucratize" participation by limiting it only to the First Delegates or the other official representative of the NCs.

We must correct a so-called "banal" view of the involvement of the NCs and leave space for the contributions of the technical representatives of the NCs and the representation of the professional world and businesses. These persons and their ideas are not always represented by the top figures of the NCs. To enrich our work we must aim at meetings with the representatives of the NCs and other persons capable of performing wider reflections to propose new ideas.

PIARC is a worldwide community of volunteers interested in the road issues and the meeting took place in the African family of this community. I confirm that it was worth it to have this meeting for two reasons: the first, to make a free flowing wheeling exchange of ideas with African friends, overcoming the formal roles and the professionals involved, trying to "socialize" the contributions. The second reason, as a natural consequence, was to find operational outputs, channeling reflection around a complex of considerations and general proposals to bring to the attention of PIARC. The result were indications that can be capitalized for Africa and for other experiences....in other continents.

Africa is moving. Thank you African National Committees for your participation and contribution in PIARC!



Saverio Palchetti
Representative of PIARC National Committees



ARGENTINA

The Argentine National Committee (AIPCR_ PIARC) carried out during the months of (August – December 2017, and January 2018) the following public activities:

1. Argentine National Committee- Piarc Cycle Of Conferences Kick Off - First And Second Day



In August, the Argentine Road Association (AAC), as Argentine National Committee (CN) -PIARC began its cycle of conferences as a way to contribute to the updating and training of all professionals and technicians, the transport sector in general and the Argentine road sector in particular, placing emphasis on the transfer to new generations.

The main objective of these conferences is to create and implement Mirror Committees in Argentina to transmit all the knowledge, technologies and innovation, and show international experiences, which lead to good practices in the country.

The Argentine representatives before the Technical Committees of the World Road Association (World Road Association-WRA-PIARC) presented the progress and tasks they carry out in their field.

The first and second day of the cycle, had an introduction by **Miguel A. Salvia, vice president of the World Road Association**, who made a presentation of the activities and tasks of the PIARC. The first two conferences were given by **Oscar Fariña, argentinian representative and Spanish speaking secretary of Technical Committee B.3 - Sustainable Multimodality in Urban Regions**-who developed the activities of the TC and presented case studies, including the recently inaugurated "Metrobus La Matanza"

<http://aacarreteras.org.ar/actividades/>

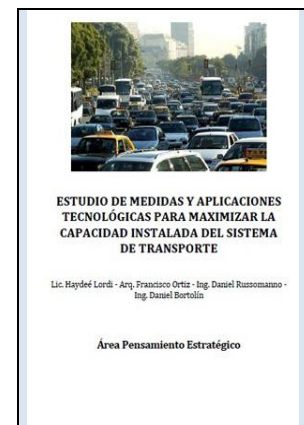
"METROBUS LA MATANZA", MADE REALITY AN IDEA EMERGED IN THE SINE OF THE ARGENTINE ROAD ASSOCIATION, FROM THE ""STUDY OF TECHNOLOGICAL MEASURES AND APPLICATIONS TO MAXIMIZE THE INSTALLED CAPACITY OF THE TRANSPORTATION SYSTEM" (Authors: H.Lordi , D. Russomano, F. Ortiz y D. Bortolin). This study has obtained the 1st. Award granted by the 2010 World Engineering Congress and was used as a precedent for the management of a loan to the World Bank, whose resources were used to realize the aforementioned work, awarded in 2017, as the best, within the urban mobility category

<http://biblioteca.camarco.org.ar/libro/estudio-de-medidas-y-aplicaciones-tecnologicas-para-maximizar-la-capacidad-instalada-del-sistema-de-transporte/>

<https://static.tti.tamu.edu/conferences/ited2014/presentations/E2-lordi.pdf>

https://www.fhwa.dot.gov/planning/economic_development/ited_conference/i-ted_2014/page06.cfm#Toc412469961

<http://www.aacarreteras.org.ar/foro/lordi.pdf>



2- Third Day Of The Conference Cycle Of The Argentine National Committee / Piarc- Presentation Of The "Piarc Manual Of Road Operation And Its"



On September 14, **Haydée Lordi**, Technical Secretary of the Argentine National Committee - PIARC opened the third day, providing an overview of how WRA-PIARC works and its main activities. **Daniel Russomanno**, argentinean representative and Spanish speaking secretary of Technical Committee B.1 " Road Network Operations/Intelligent Transportation Systems "presented the benefits of ITS and its applications; and presented the activities of the PIARC Technical Committee 2.1 during the 2012-2015 cycle. He also presented the **PIARC Manual "Road Network Operations and ITS"**, which was developed by that committee and recently translated into Spanish by the Argentine National Committee (mainly by Daniel, Russomano and Haydee Lordi, and a series of collaborators).

This manual, which was launched in 2015 in Seoul (South Korea) on the occasion of the XXV World Road Congress, is available online for free at: www.mno-its.piarc.org/es.

<http://aacarreteras.org.ar/actividades/Conferenciarussomano>

3- Fourth Session Of The Conference Cycle Of The Argentine National Committee /Piarc– Thematic Axis: "Freight Transportation "



On September 28, the fourth presentation of the Conference Cycle of the PIARC National Committee was held, which began with an exhibition by **Haydée Lordi**, technical secretary of the NC, who presented the operation and main activities of PIARC. **Silvia Sudol**, argentinian representative of the Technical Committee B.4 " Freight" gave a presentation on the main axes of work of the committee, its tasks and research. She also presented the activities and reports made by PIARC Technical Committee 2.3 during the 2012-2015 cycle.

<http://aacarreteras.org.ar/actividades/Conferenciasudol>

4- Fifth Session Of The Conference Cycle Of The Argentine National Committee / Piarc- "Progress In The Planning And Evaluation Of Projects"



On October 19, in the fifth presentation of the Conference Cycle of the National Committee /PIARC the vice president of the World Road Association, Miguel Ángel Salvia, gave a brief presentation of the activities and tasks of WRA-PIARC. Haydée Lordi, argentinian representative and Spanish speaking secretary of Technical Committee A.2 "Road Transport System Economics and Social Development"- presented the topic of progress in the planning and evaluation of projects and outlined the activities of the Technical Committee 1.4 PIARC during the 2012- 2015 cycle. Lordi, advanced on the topics of the committee for the period 2016-2019 and developed the **Rural Roads Economic Evaluation Model (MECAR)**, oriented to the evaluation of rural road projects, which she has developed.

<http://aacarreteras.org.ar/actividades/Conferencialordi>

5- Sixth Session Of The Conference Cycle Of The Argentine National Committee - Piarc- "Concrete Pavements "



On October 26, at the sixth presentation of the Cycle of Conferences of the PIARC National Committee, the technical secretary of the NC, Haydée Lordi, explained the main activities and the functioning of the WRA-PIARC.

Diego Calo, argentinian representative of the Technical Committee D.2 - Pavements- presented the technical report "Reduction of the time and costs of construction of concrete pavements", carried out by the subcommittee - D.2.c Concrete pavements - at the end of the 2008-2011 period, in which methods to reduce costs and delays to motorists during road construction were examined.<http://aacarreteras.org.ar/actividades/Conferenciacalo>

6- Seventh Session Of The Conference Cycle Of The Argentine National Committee Piarc - Road Safety And Zero Vision



On November 16, the seventh presentation of this Cycle of Conferences was focused on the work being developed by the AAC on **Road Safety and Vision Zero**. The welcome was in charge of Haydée Lordi, technical secretary of the CN, who explained the operation and activities of the WRA-PIARC. Juan Perrotat, argentinian representative and Spanish speaking secretary of the Technical Committee C.1 - National Road Safety Policies and Programs- developed the topics of the committee and the Road Safety Manual.

<http://aacarreteras.org.ar/actividades/Anteultimapiarc> <https://roadsafety.piarc.org/en>

7- Eighth Session Of The Conference Cycle Of The Argentine National Committee Aipcr / Piarc- Presentation "Big Data And Its Application In Transport"



On November 23 the last presentation of the Cycle of Conferences of the Argentine National Committee -PIARC, was focused on **Big Data and its application in transport**, a key issue for the future. The conference was led by **Haydée Lordi, Argentine representative and Spanish-speaking secretary of Technical Committee A.2 " Road Transport System Economics and Social Development** who developed the concepts of the **Internet of Things and Big Data**; and presented videos and various case studies of their applications in transportation.

<http://aacarreteras.org.ar/actividades/ultimapiarc>

8.- Presentation Of The Plan On Rural Roads At The Nation's Congress Of Argentina



On November 28, **Miguel Ángel Salvia, second vice president of the Argentine Road Association**, presented the **AAC Plan on Rural Roads** at a meeting of the Agriculture, Livestock and Fisheries Committee of the Nation's Senate.

In the presence of national authorities, senators and advisers, representing all the provinces of the country, **Salvia** developed the main guidelines of the work carried out by the AAC, where the situation of the tertiary roads is raised and possible solutions are proposed for this topic, fundamental for the transportation of the primary production of Argentina.

<http://aacarreteras.org.ar/actividades/Presentacioncaminos>

AUSTRIA



Great success for Austrian snowfighters at the PIARC Winter Road Congress in Gdansk

The 44-year-old road master Gerhard Vock from Wolkersdorf in Lower Austria has been awarded the title of "World Snowplough Champion" at the 15th International Winter Road Congress of the World Roads Association in Gdańsk (Poland). Among 22 participants from 9 participating countries, Gerhard Vock prevailed in the final against his colleagues from Austria, Germany and France, followed by a road master from Germany and another Austrian competitor, Bertram Unger from the Burgenland.

"A great honor for the many employees who look after the 14,000 kilometers of roads in Lower Austria," said Provincial Governor Johanna Mikl-Leitner and congratulated Gerhard Vock on the title. The competition, which is organized every two years in Austria and every four years internationally, leads to a great motivation of the winter service employees and an excellent professional recognition within the road community.



Austrian Road and Tunnel Guidelines now available in English Language

The Austrian Research Association for Roads, Railways and Transport (Österreichische Forschungsgesellschaft Straße – Schiene – Verkehr, FSV) – providing the secretariat for the Austrian National Committee of PIARC – is a platform for experts who deal with the planning, construction, maintenance, operation and utilisation of transportation structures. FSV regards itself as a centre of competence that is available for all professional working in the fields of economics, science and administration. In its capacity as the contact agency for both contracting authorities and contractors, the FSV acts as a connector between the public and the private sector.

The FSV committees form a network of more than 1,400 persons promoting both the exchange of knowledge and development at the national as well as the international level. Based on these experts it defines the state of the art in engineering, preparing guidelines for both road transportation and railway transportation in Austria.

The following guidelines (RVS) have been translated from original German text in order to facilitate the use in countries worldwide:

RVS 03.04.13 Child-Friendly Mobility

RVS 15.04.81 Design and Dimension of Noise Barriers (LSW)

RVS 08.03.01 Earthworks

RVS 05.01.14 Intermodal Transport Reference System for Austria – Standard Description GIP (Graphs Integration Platform)

RVS 09.03.11 Tunnel Risk Analysis Model

RVS 09.03.11 Tunnel Safety - Tunnel Risk Model incl. changes April 1, 2009

RVS 09.02.31 Tunnel Ventilation - Basic Principles

For further information please visit FSV's website <http://www.fsv.at/cms/start.aspx?LN=EN>

CANADA-QUEBEC



Welcome to PIARC Technical Committee B.1 Road Network Operations/Intelligent Transportation Systems



From November 2 to 4, 2017 in Montréal, the PIARC Québec Committee hosted Technical Committee B.1 Road Network Operations/Intelligent Transportation Systems (ITS) in conjunction with the 2017 Intelligent Transportation Systems World Congress. The Congress was an excellent occasion for PIARC to present its work at two special sessions: *Autonomous Vehicles: Road Authorities and Network Managers' Perspective* and *Low Cost ITS and Big Data: A New Approach of Road Network Oper-*

ation? The Canada-Québec First Delegate, Mrs. Anne-Marie Leclerc, took part in the first session with a conference entitled *Autonomous vehicles and Connected vehicles: Towards a smooth transition*.

The meetings of Technical Committee B.1, which brought together 25 international experts from the Americas, Europe, Africa and Asia, provided venues for the members to exchange on a number of issues, among which were improvements to capacity, reliability, security and energy savings as well as the use of new traffic technologies and cost-effective applications, whether realized through interfacing with other transportation modes or through the use of ITS. TC B.1 also looked into big data and its applications to the transportation sector. Mr. Patrick Malléjacq, PIARC Secretary General, reminded TC B.1 of the importance of its meetings and gave the latest news from the Association.

The meetings provided Mr. Daniel Allaire, the representative of the ministère des Transports, de la Mobilité durable et de l'Électrification des transports with an opportunity to present the other members with an overview of ITS in Québec, and Québec's vision and actions in that regard. Thus, the technical committee members were treated to a technical visit of the Port of Montréal aimed at highlighting the port's innovative truck traffic management and electronic navigation initiatives. Mr. François Thibodeau with the city of Montréal also presented the joint ITS realizations of the city and the port.



2017 PIARC Québec Committee General Assembly

On December 1, 2017, in the city of Québec, 33 persons attended the 2017 Annual General Assembly of the members of PIARC Québec. Québec's First and Second Delegate to PIARC, Mrs. Anne-Marie Leclerc and Mr. Richard Charpentier, presented the Association's current events. The highlight of the annual assembly was the status report on the work of the PIARC technical committees directed by the technical coordinator, Mrs. Lise Fournier, and the strategic theme coordinators.

As Chair of the Organizing Committee of the ITS World Congress 2017 in Montréal, last November, Mr. Claude Carrette gave a summary of this major congress. ITS, currently a major issue in Québec, was the theme of the lunch conference in which the current and future situation of connected and autonomous vehicles was portrayed. Three presentations on this topic were the focus of interest: that of Mr. Daniel Allaire, ITS coordinator with the MTMDET, that of Mr. Youssef Dehbi, Director of the city of Québec's operations and intelligent mobility division, and that of Mr. Martin Thibault, Vice-President, Regional Business Leader, Transportation (Québec) with Stantec and a member of PIARC Task Force B.1 Road Design and Infrastructure for Innovative Transport Solutions.





FRANCE

Technical Day November 23, 2017

Prepared with the URF and IFSTTAR this day took place in Lyon in partnership with the French Fédération Routière de Carrosserie (FFC) in the framework of SOLUTRANS.

The many participants were able to attend two conferences:

- one organized by the FFC and entitled "Transpolis, first city laboratory dedicated to urban mobility and intelligent and connected industrial vehicles" (www.transpolis.fr).
- the other organized by the URF, IFSTTAR and the CF-PIARC entitled "Will the road of tomorrow be more autonomous and environmental?" (www.cf-aipcr.org). It was organized around two themes: platooning (interconnected PL convoys) and electric highways for heavy goods vehicles. A round table dealt with developments in road freight transport and its chances of success.

General Meeting of the PIARC CF- 20 December 2017

It took place at the Maison des TP (75008 Paris), and was followed by a conference on the theme of the vehicles of the future in connection with the road.

Connected vehicles, autonomous vehicles, electric vehicles" with Mr. Rémi BASTIEN Director of Automobile Perspective of the Renault Group, President of the VEDECOM Institute and President of the Mov'eo competitiveness cluster.

"The high quality service road" with Mr. Jacques EHRlich Research Director Emeritus at IFSTTAR and Chairman of the Committee "Exploitation of Road Networks / Intelligent Transport Systems" at the World Road Association.

These presentations are available on our website: www.cf-aipcr.org

The meetings of the PIARC CF- / IDRRIM 16 January 2018

They took place at the Maison des TP (75008 Paris) and gathered about fifty participants.

The presentations are available on our website: www.cf-aipcr.org

At the end of the morning, after watching the film about the French snowplow championship that took place in Blois in September 2017 (available on our website), we gave our champions their well-deserved trophies.

GERMANY



Council Meeting from 23 to 28 October in Bonn

The German National Committee helped organise the PIARC Council Meeting that took place in Bonn from 23–28 October 2017. The meeting included the statutory meetings of the World Road Association, i.e. meetings of the Association Council, the Executive Committee, the National Committees Assembly, the Strategic Planning Commission, and the Communication Commission. On the agenda were numerous reports and technical seminars, the preparation of future PIARC congresses, and the key topic for debate: automated vehicles. The meeting provided an opportunity to discuss the progress of work with a view to achieving the objectives set by the association for the period 2017–2020. Officials from more than 44 countries were in attendance. A full morning was dedicated to a very wide-ranging debate on automated vehicles that included presentations given by the United States, Italy, Japan, the United Kingdom, and the Canadian province of Quebec. Road authorities and road operators want to contribute to the reasoned deployment of these vehicles and to meet new expectations and prepare for impacts on the road infrastructure by implementing suitable business models with immediate effect. For 100 international participants, the meeting, which had taken place at the Federal Ministry of Transport and Digital Infrastructure, ended with a technical visit to

the Federal Highway Research Institute (BAST) in Bergisch Gladbach and the new test facility "dura-BAST".

German Road and Transportation Congress with the 'Road and Transport 2018' exhibition in Erfurt

From 12th to 14th of September 2018, the Road and Transportation Research Association (FGSV) will welcome experts to the **German Road and Transportation Congress 2018** and the Road and Transport 2018 exhibition. Both will take place in the Congress Centre in Erfurt.

For more information please contact:

Forschungsgesellschaft für Straßen- und Verkehrswesen e.V.

(FGSV, Road and Transportation Research Association)

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e-mail.: info@fgsv.de - Internet: www.fgsv.de

13th International Symposium on Concrete Roads from 19 to 22 June 2018 in Berlin

The German "InformationsZentrum Beton", together with EUPAVE and their partners are pleased to invite you to take part in the promising 13th International Symposium on Concrete Roads from 19 to 22 June 2018 in Berlin. The symposium includes the German FGSV-Conference on Concrete Pavements "FGSV-Betonstraßentagung".

Themes will be: High axle-load areas, Highways and truck parking areas, Urban and rural roads, intersections and roundabouts, Materials – Concrete for various applications, Precast systems, Maintenance strategies, assessment of structural capacity of concrete pavements, Surface characteristics and modern methods of execution, General reports on application of concrete pavements, Quality control and testing, Big Data – concepts to optimize the use of entire infrastructure networks.

ITALY



International Conference "Connected And Automated Driving-Moving People And Freight In The Future" – Rome - October 13, 2017

An international conference was held on October 13 in Rome on "**Connected and Automated Driving**" which focused on "**Moving people and freight in the future**". The conference was organized by the AIPCR Italian National Committee and Anas Spa. The conference was attended by Italian and international experts of automated driving, smart roads and road safety and focused on the possibilities offered by new technologies for freight transport. The day comprised four sessions: Smart Cars, Smart Roads, Smart Safety and Smart Freight with the presence of the automobile industry represented by FCA Italia and Scania and the ITS sector represented by Ericsson. Automated driving is a present reality. Various types of vehicles are presently in circulation which can go on the road in an automated way but still need the assistance of the driver.

During the discussion a few questions emerged. When will we see on the roads vehicles completely autonomous from the driver? What characteristics should the roads possess in order to adequately accommodate these vehicles? How will connected and automated driving be regulated by the Government? What will be the benefits for road safety and freight transport?

The Conference was opened by Ing. Gianni Vittorio ARMANI, President of Anas and of the Italian National Committee of the World Road Association. He illustrated the Anas Smart road project, that, within 4 years plans to transform the A2 Autostrada del Mediterraneo (that connects the cities of Salerno to Reggio Calabria, in the South of Italy) with a road artery equipped with the most advanced connectivity technological innovations. The President of the World Road Association Claude VAN ROOTEN intervened and a video message from the European Transport Commissioner Violeta BULC was transmitted. Among the speakers were: Roberto ARDITI, Jacques EHRlich, Bernard JACOB, Martin REUSCH, Eiichi TANIGUCHI, Hamid ZARGHAMPOUR.



International Conference “Connected and Automated Driving – Moving People and Freight in the Future” – Rome - October 13,2017

Piarc Mid-Term Meeting – Rome - December 4-6, 2017

From 4-6 December, 2017 AIPCR Italy hosted the Mid-Term Meeting of the World Road Association with the participation of the Presidents and Secretaries of the 17 Technical Committees and 4 Task Forces of the 2016-2019 cycle. Present at the meetings were also the President of PIARC Claude VAN ROOTEN, the Secretary General Patrick MALLEJACQ, the Representative of the National Committees Saverio PALCHETTI and staff from the PIARC General Secretariat.

The three days took place at Hotel Palatino with a total of about 100 participants and the meeting was opened with a welcome by the Secretary General of the Italian National Committee Domenico CROCCO. During these 3 days an update on the work carried out so far was given by the Technical Committees/Task Forces articulated in the 5 Strategic Themes. Also the program of international activities for the conclusion of the 2016-2019 cycle was illustrated in preparation of the World Road Congress to be held in Abu Dhabi October 6 -10, 2019. Two parallel sessions deepened the specific themes of communication and on-line manuals. The meeting was closed by the Italian First Delegate, Ciro ESPOSITO.



PIARC Mid-Term meeting – Rome - December 4-6, 2017

Meeting Of Presidents And Vice-Presidents Of The Technical Committees And Task Forces Of The Italian National Committee– Rome - January 26,2018

Similar to the PIARC Mid-Term Meeting, on last January 26 in Rome a meeting was held with the participation of the Presidents and Vice-Presidents of the Italian PIARC Technical Committees and Task Forces. The participation at the meeting included 16 Technical Committees and 2 Task Forces activated by the Italian National Committee, as well as the Italian Secretariat representatives Domenico CROCCO, Saverio PALCHETTI and Leonardo ANNESE. Italy adopted the same articulation of the Technical Committees and Task Forces defined by the Association at international level for the cycle 2016-2019. It is subdivided in 5 Strategic Themes with their Presidents or in absence, the national Vice-Presidents, that participate in the meetings of the respective international Technical Committees. For a better internal functioning, AIPCR Italy has foreseen the figure of a Coordinator of Technical Committees and Task Forces. During the meeting an update of the activities carried out in 2017 was given with a major involvement of the Italian National Committee in organizing: 5 conferences, 1 national workshop and international participation in meetings and seminars. This has meant a significant eco-

conomic and organizational commitment. The Presidents and Vice-Presidents then illustrated a brief presentation of the activities and work carried out the first 2 years and that should be concluded, as in PIARC international, in December 2018 with a final report that each will present at the National Meeting to be held in April 2019. The following topics were also discussed: the PIARC calendar 2018-2019, the following steps for the PIARC World Congress in Abu Dhabi, the format of the PIARC Italy National Meeting, the Italian participation to the international Technical Committees, the editorial activity (ex. Manuals, etc.), the use of PIARC Italy online manuals, the new themes to propose for the next cycle, sponsorships, the internal organization of the Technical Committees/Task Force and the functioning of the website www.aipcr.it with its sections dedicated to the work of the Committees.



Meeting of Presidents/Vice Presidents of the Technical Committees and Task Forces of the Italian national Committee– Rome - January 26, 2018

KOREA



2017 PIARC Korean National Committee Technical Committee Workshop **6th Feb. 2018 Seongnam, Korea**

PIARC Korean National Committee (NC) held its Technical Committee Workshop on 6th Feb. 2018 in Seongnam. 30 participants including the chairperson of the Korean NC and 6 TC members attended the workshop in order to share the results and outcomes from the 4th PIARC TC Meetings of 2016-19 strategic period.

The workshop was officially started with Prof. Keechoo Choi, the chairperson of PIARC Korean NC. During the workshop, 6 TC members presented on their research activities and outcomes.

Themes discussed were :

Topic	Presenter	Main Contents
A.2. Road Transport System Economics and Social Development	Jong Hak Kim (Korean Research Institute for Human Settlements)	- WG's progress on Ex-Post Evaluation of Projects and Project Evaluation Methods(Reliability) - Field study findings from Germany and Morocco
B.1. Road Network Operations (ITS)	Keechoo Choi (Ajou University)	- Applications of Low Cost ITS and Big Data - Reflections on the ITS World Congress 2017
B3. Sustainable Multimodality in Urban Areas	Ok Namkung (Seoul National University)	- Research on mobile application to improve access to public transportation for physically challenged - Field study to Watermael-Schuman-Josaphat Rail Link and Belgium Road Research Center
B.4. Freight	Yoon-Hyuk Choi (Korea Expressway Corporation)	- Sustainable, safe and efficient - Introduction to Korean cases – Expressway tolling system integrated with WIM data
D.1. Road Asset Management	Hye-Ok Lee (Korea Expressway Corporation)	- Applications of UAS (Unmanned Aerial System)
D3. Bridges	Heungbae Gil (Korea Expressway Corporation)	- Introduction of WG's progress - Road policy issues of Chile - Reflections on the 2 nd International Bridges Congress, Chile 2017

D5. Road Tunnel Operations	Jongwook Jo (Korea Expressway Corporation)	<ul style="list-style-type: none"> - WG's progress and quality control of TC reports - Sharing different issues related to tunnel management - Field study to Huguenot Tunnel
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The workshop provided an opportunity for experts to exchange perspectives and suggestions on the areas concerned as well as to integrate the work of the TCs.



2017 PIARC Korean National Committee Technical Committee Workshop



MALAYSIA

Ream To Host The 10th Malaysian Road Conference & Exhibition 2018



The Malaysian Road Conference & Exhibition 2018, currently tenth in its series, which will be held from 29 to 31 October 2018 is jointly organised by the Ministry of Works, Malaysia, Public Works Department of Malaysia, Malaysian Highway Authority, World Road Association (PIARC) and the Road Engineering Association of Malaysia (REAM) in collaboration with the Construction Industry Development Board, Malaysia, International Road Federation Global and Road engineering Association of Asia & Australasia. REAM is the lead organiser.

Carrying the theme **“Global Approaches to Advance Road Asset Management”** some 40 local and international papers will be presented and discussed at the technical and workshop sessions with one special lecture by an international expert each day. Senior managers and leading practitioners in road engineering from corporate sector organisations including officials from the government will present up to date, highly relevant and practical information on the increasingly complex road environment. The technical programme, which will include the PIARC International Seminar papers, is very flexible with a choice of speaking streams or workshops on each day. Delegates may freely swap between both streams.

CONFERENCE concurrent event

As in the last 2014 series, the MRC will be held simultaneously with the PIARC International Seminar on Asset Management. This seminar is held under the auspices of PIARC Technical Committee D1 Asset Management.

OFFICIAL LANGUAGE of Conference / Seminar – ENGLISH

TECHNICAL PAPERS *invitation*

Papers are invited from local and international authors encompassing, among others, the following streams in tandem with the conference / seminar theme “*Global Approaches to Advance Road Asset Management*”. Papers should be written in the following topics:

<ul style="list-style-type: none">• Road Asset Management• Traffic Control and Management• Road Safety Management• Design and Construction Technology• Geospatial Information System (GIS)• Sustainable Road Construction Practices	<ul style="list-style-type: none">• Public Transportation• Road Financing and Public-Private Partnership• Highway Planning• Innovations in Pavement, Materials and Geotechnical Engineering
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Deadline for abstracts

1 April 2018

Deadline for full papers

15 July 2018

FURTHER ENQUIRIES AND INFORMATION *contacts*

General enquiries on the conference / seminar can be directed to the **Conference / Seminar Secretariat** / Website: www.10mrc.com / Email: enquiries@10mrc.com / Email: ream@ream.org.my / Email: technicalprogramme@10mrc.com

Minister Of Works Malaysia Graces Ream Gala Dinner 2018



The Minister of Works Dato’ Sri Haji Fadillah bin Haji Yusof (centre) and PIARC First Delegate and REAM President Dato’ Sri Ir. Dr. Roslan bin Md Taha (right) with recipients of financial aid and President’s Award.

REAM hosted the REAM Gala Dinner on 20 January 2018. This memorable event was graced by the Minister of Works, Malaysia Dato’ Sri Haji Fadillah bin Haji Yusuf. The objective was to provide an avenue for fostering and further strengthening professional and personal ties in the spirit of camaraderie amongst the road engineering fraternity. The highlight of the event was the presentation of financial aid under the REAM Education Fund and the President’s Award.

REAM Education Fund

Established in 2010 under REAM’s corporate social responsibility (CSR) initiatives, the objective of the fund is to provide one-off non-binding financial assistance to deserving under graduate students with constraints in family financial support but with good academic achievements pursuing tertiary education in civil engineering discipline including road infrastructure and or transportation in local public universities. To date, more than 300 selected students recommended by their respective universities have received this aid. Funds for this and other CSR initiatives are derived from organising various activities.

President’s Award

This year, five undergraduate students from five local public universities received the President’s Final Year Best Civil Engineering Student Project Award. Each recipient received cash, a medallion and a certificate. They were also offered one-year subscription free membership in REAM and a minimum six (6) – month Graduate Employment Internship in major corporate sector companies involved in civil engineering.

SPAIN

VIIth National Conference on Road Safety – Toledo 14 and 15 November 2017

This Conference, organized by the Spanish Technical Committee on Road Safety, has been attended by 250 participants from the government, civil society, academia and private and business sector.



Accident rates on the roads and the high socio-economic related costs are extremely important issues. In the last few years, road accident rates have been greatly improved in Spain. This Conference has been a forum for exchanging knowledge and experiences in order to improve road safety on Spanish roads.

Mr. Roberto Llamas, from the Ministry of Public Roads and Transport and Chairman of the Spanish Technical Committee on Road Safety, has been the General Speaker of the Conference.

On 21, 22 and 23 November 2017, a new edition of our successful **Course “Responsible for Road Tunnel Safety”** took place in our own education facilities in Madrid.



The course, on the initiative of our National Technical Committee “Road Tunnels”, has been attended by 25 participants.

Mr. Rafael López Guarga, Chairman of the Spanish TC Road Tunnels and Spanish-speaking Secretary of PIARC TC D.5 (Road Tunnel Operations) and attendants.



Technical Conference: “Sustainable Road Solutions with Hydraulic Binders” Valencia, 15 February 2018

One of the main objectives of any economic sector is to transform its processes into more ecological and environmentally friendly processes. The road sector is very concerned about sustainability and is moving towards a Circular Economy, which means reusing all the materials used on the roads, moving away from traditional solutions by accumulating layers upon layers for road rehabilitation processes and maintenance.

This Conference, attended by 100 participants, intended to analyze the technical solutions by using hydraulic binders for all types of traffic and situations on the roads, reaffirming the importance of the sustainability concept.

During the last **Board of Directors Meeting** of the PIARC Spanish National Committee/Technical Road Association (ATC), held in Madrid last 21 November, **Mr. Vicente Vilanova** and **Mr. Ángel García Garay** have been nominated as **“Members of Merit”** of our Association. Both, with extensive experience at national and international level, have been involved in many PIARC activities since a long time ago.



From left to right: **Mr. Alberto Bardesi** (Director of the PIARC Spanish National Committee – ATC), **Mr. Ángel García Garay** (Ministry of Public Roads and Transport), **Mr. Jorge Urrecho** (First Delegate and General Director of Roads. Ministry of Public Roads and Transport), **Mr. Luis Alberto Solís Villa** (President of the PIARC Spanish National Committee – ATC) and **Mr. Vicente Vilanova**

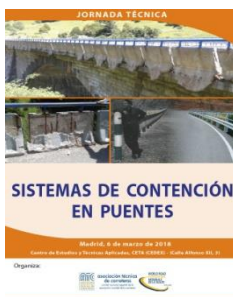
RUTAS Magazine

Number 172 (July-September 2017) and 173 (October-December 2017) of our quarterly RUTAS Magazine have been released.



We offer the possibility of downloading RUTAS Magazine in digital format from our website. Additional information available at: www.atc-piarc.com. If you wish to receive our digital RUTAS Magazine directly, please send an email to: info@atc-piarc.com

A brief summary of our forthcoming events:



Technical Conference: “Containment Systems for Bridges”

Madrid, 6 March 2018



Technical Conference: “MDSS (Maintenance Decision Support System) a possible improvement”

Madrid, 22 March 2018.



IV International Seminar on Earthworks in Europe - Madrid April 19 and 20, 2018.

It is the fourth in a series of Seminars (Paris 2005, London 2009, Berlin 2012) on the progress and development of design, construction and maintenance of earthworks all over Europe.

In English and Spanish (simultaneous translation available)

Technical Conference on the activities of PIARC Technical Committees

Madrid, 10 April 2018

Detailed information will follow in next editions of PIARC Bulletins

World Road Association Congress



More information: <http://www.piarcabudhabi2019.org>