



Editorial

Saverio Palchetti

Representative of PIARC World Road Association National Committees

Five issues for the new Strategic Plan 2020-2023

I open this editorial thanking all those present at the NCs meeting in Yokohama on last October 26 with 31 participants (see photo) representing 25 NCs. In particular, I would like to thank the Japanese NC, who hosted the meetings in a magnificent atmosphere, as you can see from the images below.

As usual, we heard the presentations of the activities of the local continent's NCs, that is Asia and Oceania and, in addition to Japan as host, also South Korea and Australia. The other presentations were from the other NCs approved by the Council in Yokohama which were Bulgaria, Ivory Coast and Tanzania. A warm welcome to them which bring the NCs to a total of 45.

I would like to start by mentioning my last Editorial in Bulletin n.52, where I talked about a more inclusive approach, the importance of regional and local factors, universities and young people, a more holistic approach, first delegates and NCs, seminars and instant books. All themes which were included in my presentation in Yokohama. Following are some considerations that arise from the debate in the meeting and that take into account the present situation in elaborating the new Strategic Plan and the final conclusive phase of the TCs' and TFs' reports at international level and national Italian level. A matter that I am directly following not only as President of the TF C1 who has concluded its report but also as Coordinator of the Italian TCs and TF. And this is why I came about the issue of knowledge.

1) The mental-technological revolution

Many, like myself, born in the middle of the last century, are aware of the technological revolution due to digital introduction that has created a radical change in human behavior and their mental processes. With digitalization, any information, sound, image, text, becomes a number associated with the sequence of 0 and 1. This makes it possible to transfer everything from a distance by computer and without errors, although this has caused the birth of a new type of crime made up of hackers. The coming of web has created a new world, the cyber-world which permits the exchange of messages via internet, setting in motion once and for all an overwhelming mechanism.

In practice, internet provides millions of "drawers" where one can go and fish free of charge whatever information needed. It regards a technological revolution linked to the necessities of contemporary humans to think more rapidly, with a major quantity of information and with total freedom to communicate. The most advanced instrument is the smartphone that consents "multitasking", that is, not only to communicate from home, in the street or in the car (!!) but also to take pictures, videos, send documents, receive weather forecasts, read the newspapers, play, etc.. An extraordinary extension of human abilities!

2) The breakdown of mediations and the "do-it-yourself" knowledge

One of the effects of this tingling of multitasking is that people move freely in the cyber world, sending and receiving news and are able to satisfy their real needs mainly through the "apps" of their smartphone. A few important consequences are, first: everyone is able to receive from the web what they desire and secondly: there are no longer main holders of information. Knowledge can be direct

and without intermediaries. From the mix of the two factors it can be assumed that experts are not needed and one forgets the reasoning, the study, the scientific knowledge of things thinking that by clicking on a question there is always a convincing answer that comes from internet! Therefore, Internet has become a possible alternative form of learning. I can carry out a technical research on Internet without problems and can even write an original book: I take from here and there, then verify and there it is! A perfect collage can be done without comprehending anything of subject. Someone can say: sure, but the important thing is that I can do it all at cost zero, rapidly and therefore at the end I can accept a certain degree of approximation. What is the difference between do-it-yourself knowledge and quality knowledge? The problem is that not all theories are the same: some are correct (scientific) and others are not. Internet does not make a selection. Furthermore, we must be aware that in a search engine what appears first is not always the best information but are those clicked on the most and that there are also fake news. So, mediators of knowledge are still needed in this world of internet without mediation and the role of our Association with its motto "Exchange knowledge and techniques on roads and road transportation" with its voluntary experts "operational" worldwide, is fundamental in order to guarantee quality and transparency of the technical documents produced.

3) Static and dynamic knowledge with numerous players

Once knowledge was "static" while today it is in movement especially in the technological sectors.

A classic paper encyclopedia is no longer useful since it becomes rapidly obsolete. Since, as I believe, PIARC's work is of the utmost quality, we need to communicate this quality since it is something you don't find on internet but uses internet and goes further. Furthermore, there are numerous worldwide players, here I limit myself to our NCs, that give a complete picture of the world composed of many angles with a different visual, and so the transparency of each topic is often lost.

The absolute technical truth is overcome by an open world, with different facets and in continuous evolution. Is it possible to take decisions as road operators in every part of the world based on the "truth" of PIARC? Do the manuals express the truth? I would say that today the answer is no in both cases, since the truth regarding the road today is dynamic for many players.

4) PIARC's work

We have to dig below the civilization of culture of internet and to do this we need to tag the differences. Beside what mentioned before, we need to overcome the knowledge divisions and the boundaries of topics assuring the maximum possibility of mobility, the merging of topics, the breakdown of knowledge's silos. Knowledge comes from present knowledge since the contradictions, unresolved tensions, and questionable details must be considered. This is the analysis of the reports of the previous cycle: we must dig in the documents produced. Before the new, the old must be discussed in order to let the knowledge acquired emerge. You work 4 or 2 years (book culture) and then you need to dig up the essence and bring it to light (digital culture) stimulating the appetite for further study. The paradigm of knowledge has changed, looking further than the experience achieved, aiming towards movement and looking forward to relations in various fields. There is no standing still knowledge and there is no final act. In fact, when we have a technical report completed, in some cases, it is already obsolete. We cannot just think to put online PIARC documents. We have to consider the overwhelming consequences that the digital world is provoking in the road sector regarding smart roads, automated vehicles, cyber security and information technology with a booming development. Even engineering knowledge, on the one hand has become very rapid and on the other appears unreachable. It seems like a video game: it never ends and with one scene after another. Six months from now my report on security will be obsolete....PIARC has to play the future worldwide "video game" of road culture in evolution, interpreting changes with foresight, from a long-term perspective.

5) Finally there is the man...

PIARC has to speak to everyone and needs to interpret their necessities. If we look at the contemporary cultural phenomena, the human being has to be involved in all the studies. Man is always the protagonist, the target. It is the human being that reads, uses documents and websites, designs projects and uses the road. His curiosity and pleasure need to be stimulated to deepen his knowledge. So the Regional Committees are fine but if linked to a TC, in order to ensure coherence

meanwhile keeping its peculiarity. A TC has an educational function, elaborated for theme with a slow evolution and optimal use of PIARC material (cross-correlation among reports). The TFs are better suited to photographing subjects such as fast-moving technology and therefore require awareness and expertise in the field. For this reason I would propose an open final session for sharing conclusions not only on paper but ... for knowledge diffusion.

In summary, these reflections must be applied to the terms of reference of the various topics (TC/TF), to the analysis of the previous cycle technical reports, to the narration of this process on the outside and in particular on internet. If I believe in the ideas produced by the technical committees or the NCs I must make others understand that the ideas don't just come out of the the knowledge by the technical experts, turning upside down the problems being faced, having tried the various roads possible (figurative sense), until finally discovering a new path that is open to other developments. The technical reports retain the value of a book to be held in one's hand and which preserves its knowledge over time and therefore can survive thanks to its static nature. The big PIARC library produced must be inserted in the digital circuit and translated in today's language for it to be proposed to contemporary users. The new knowledge comes from the present knowledge. So I see a lot of work to be done on this product. Knowledge undergoes continuous growth and every part influences another in a holistic way. We must not only speak to an elite part of the world since another is still excluded from the cyber world. No one should be left behind. We must inject new positive energies, moral and intellectual in order to "exchange knowledge and techniques on roads and road transportation". Nothing new... it is PIARC's motto!

My very best wishes for the upcoming holidays to all, in particular to PIARC for a 2019 already rich in important events, constructive work and full of successes.

Saverio Palchetti
Representative of National Committees



The beautiful NCs meeting room



Some of the participants in the meeting

NC News, Events, Seminars and Conferences



AUSTRIA

12th ASTRAD-Symposium and “Austrokommunal 2019” Trade Fair on Road Management and Winter Maintenance

15 - 16 May 2019, Wels, Austria

For the 12th time the ASTRAD-Symposium on Road Management and Winter Maintenance will be held on 15th and 16th May 2019 in Wels, province of Upper Austria. More than 150 exhibitors are expected to welcome 3.000 professionals from the road management and winter maintenance sector at this biennial “Austrian Winter Road Congress”. The newest developments in equipment and technology for road operation and winter service will be presented in several technical sessions and in an exhibition area of 20,000 sqm indoor and outdoor at free admission for registered visitors. The new concept does foresee an enhanced approach on urban and community issues as well as an extend area for on-road tests of the latest equipment.

Information is provided via the Austrian National Committee at <http://www.fsv.at/piarc/> or visit directly www.astrad.at for further information.



Photo: Eurokommunal

BULGARIA

Bulgaria’s National Committee is one of the youngest in PIARC, but as for its short history, it has contributed with the organization of its National Transport Infrastructure Conference with International Participation. It was held in Nessebar, near to Bourgas.



Nessebar, Bourgas, Bulgaria



Official guests and main participants on the National Conference

There were over 400 participants from many countries. The event was under the patronage of the Ministry of Regional Development and Public Works and the Ministry of Transport, Information Technologies and Communications.

The main objectives of the conference were:

- to provide a platform for the exchange and sharing of information and experience on the fields of Science, Technology and Innovation in the different sectors of transport construction;
- to provide opportunities for discussions and discussions on topical issues and important issues, bringing together leading Bulgarian and foreign specialists, lecturers and guests, all of which have been proven in both the scientific and engineering fields.

Participants were Bulgarian and international experts, specialists and managers of well-established companies in the construction industry, representatives of state road administrations, both at the level of specialists, as well as ministers, lecturers and guests from leading universities.

Among the main thematic highlights in the program of the 11th National Conference on Transport Infrastructure with International Participation, which took place between 11th and 13th October 2018 in Nessebar, was the "MISSION ROAD SAFETY" panel. There were presented analyzes of the contemporary challenges to road safety in Bulgaria.

Prof. Rumen Milanov, PhD (Department of Roads and Transport Facilities, UACEG), outlined the guidelines for improving road safety in Bulgaria. Under an EU directive of 2008 road safety audits are introduced in the road design and on the commissioning of roads, and this is currently only on trans-European road network. He stressed on the need to make the road safety audits “obligatory” for second and third class roads in Bulgaria, which are not part of the TEN-T. Prof. Milanov noted that it is necessary to develop a methodology for road safety audits in the urban areas regardless of the number of inhabitants.

Dr. Eng. Ivan Katsarov, general secretary of the National Committee, presented the new system ARSA - an objective model that claims to determine the number of FUTURE accidents on urban junctions with 95% accuracy. It turns out that by means of a mathematical formula it is possible to predict the variants of conflict points and based on software analysis, to prevent crashes.

Dr. Eng. Vanina Katsarova presented the need of accurate and contemporary measures, which aim to prevent and/or minimize the influence the climate changes and global temperature rising, which affect the transport infrastructure condition.

Eng. Saverio Palchetti, representative of the National Committees was one of the special guests. He expressed his gratitude for making the decision Bulgaria to establish its National Committee. He also made a presentation on topic Infrastructure Security.

Eng. Ivan Tabakov, Head of the Road Safety and Planning of the Roads Road Network Activities Directorate in the Road Infrastructure Agency, presented the prospects and priorities of the newly established Directorate.

Dr. Nikolay Ivanov, BSPB (Bulgarian Branch Association for Road Safety), presented a report on "Road safety management", in which he stressed that road safety is not only institutional responsibility but also responsibility of every Bulgarian citizen.

In Yokohama, Japan, from 22 to 26 October, the annual World Road Association (PIARC) council was held, bringing together 140 countries.

On October 25, 2018 – 109 years after the founding of the World Road Association, Bulgaria established its National Committee. Bulgarian Transport Infrastructure Forum was recognized.

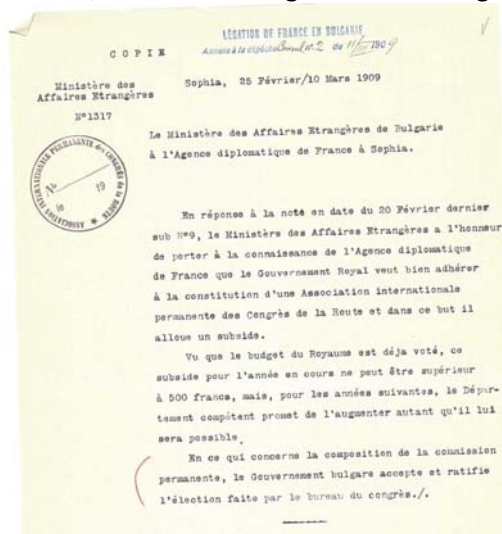
At the event, the Secretary General of BFTI - Dr. Eng. Ivan Katsarov and Dr. Eng. Vanina Katsarova, presented the National Committee of Bulgaria (BFTI).



Vanina Katsarova, Saverio Palchetti and Ivan Katsarov after signing the MoU

The President of the PIARC - Claude Van Rooten and the Secretary General of the association - Patrick Mallejacq, signed the document for the recognition of the BFTI as the National Committee of Bulgaria to the World Road Association.

A copy of the original of the document in which Bulgaria supports the establishment of PIARC, issued in 1909, was sent to Bulgarian First delegate after.



Original letter in which Kingdom of Bulgaria supports the establishment of PIARC



CANADA-QUEBEC

The AIPCR-Québec National Committee has been actively involved in PIARC authorities over the last few months. Québec particularly distinguished itself during PIARC statutory meetings in Yokohama, last October. Québec was represented by **Richard Carpentier**, Director General — major road projects of the city of Québec and Eastern Québec of the ministère des Transports du Québec (MTQ) (Québec's ministry of transport), serving as the Acting Chairperson of the Strategic Planning Commission (SPC) and as a member of the Executive Committee; **Claudine Tremblay**, International Affairs Advisor at the institutional affairs directorate of the MTQ (Québec's ministry of transport), PIARC Technical Advisor for Strategic Theme D — Infrastructures, and Secretary General of the AIPCR-Québec National Committee; and **Claude Carette**, Director of Infrastructures, Roads and Transports of the City of Montréal, and President of the AIPCR-Québec National Committee.



Richard Charpentier



Claudine Tremblay



Claude Carette

Richard Charpentier chaired the SPC meeting in the absence of the Chairperson. This involvement is crucial and comes at a key moment as PIARC is initiating the process to produce the final version of the next Strategic Plan 2020–2023, which will be adopted at the World Road Congress in Abu Dhabi, United Arab Emirates, in October 2019. The work sessions were fruitful, and the current propositions will be improved in the new version of the Strategic Plan, which will be discussed during the next meetings in the spring of 2019. In this regard, it should be noted that a new Task force “Well prepared projects” will be included in the next Strategic Plan. This demonstrates Québec’s participation in PIARC, since the creation of this Task force was proposed by Anne-Marie Leclerc, the First Delegate of Canada-Québec, when she was PIARC’s President.

Moreover, Richard Charpentier’s participation as the Acting Chairperson of the SPC enabled him to report on the work of the Commission to the PIARC Executive Committee and Council, in front of the first delegates of the 47 countries represented. Claudine Tremblay, as a member of the Council and the Secretary General of the AIPCR-Québec National Committee, is working within the National Committee network and notes all interventions where Québec is strategically involved in order to report to the Québec road community, especially the Association québécoise des transports (Quebec Transportation Association). Claude Carette, who is also a member of the Council as well as President of AIPCR-Québec, attended the meeting of national committees. This meeting provided an opportunity to welcome the new national committees, namely from Côte d’Ivoire and Bulgaria. The discussions focused on ways to mobilize our national committees in order to ensure the dissemination of technical information, as well as related local challenges. These productive discussions will be continued this winter and spring, and we hope to include them in a concrete action plan for the next PIARC planning cycle.

Québec also distinguished itself for its special projects. Québec’s special project on positive energy roads was selected, and is the only special project approved for 2019. This shows Québec’s leadership and its strong interest for PIARC’s products and activities. The environment and research team from the ministère des Transports du Québec (MTQ) will be involved in the project in order to help its completion, and Richard Charpentier will lead the task force. On another note, the conclusions of two special projects were published as part of the work in Yokohama including Québec’s project on unpredicted infrastructure failure, which was carried out in co-operation with the United Kingdom. The final report can be consulted [here](#).



Finally, AIPCR-Québec's Annual General Assembly was held on December 7, 2018. This was the occasion for Anne-Marie Leclerc, PIARC First Delegate of Canada-Québec and Honorary President, as well as for Richard Charpentier, Vice-Chairperson of the SPC and member of the PIARC Executive Committee, to present their activity reports, as did the AIPCR-Québec Committee and the Association québécoise des transports. The summary of work progression of PIARC technical committees was also presented to the members by the coordinators of each theme. A luncheon conference focused on [Québec's Sustainable Mobility Policy](#), presented by MTQ's Director General — sustainable mobility policy and electrification. Future important PIARC events were also discussed at the General Assembly, namely the XXVIth World Road Congress in Abu Dhabi (October 2019) and the XVIth Winter Road Congress in Calgary (February 2022). The latter will be the occasion for Québec's National Committee and the MTQ to work in close collaboration with their Canadian counterparts to ensure that this event is a success.

ECUADOR



Activities carried out by the National Committee of Ecuador in the last quarter of 2018.

1. Attendance at the PIARC Council meeting, held in Yokohama, Japan, on 23-24 October of this year.
2. Attendance at the meeting of the National Committees in Yokohama, Japan on 25 October of this year.
3. Continued promotion at national level for the realization of the XXVI World Road Congress to be held in Abu Dhabi from 6-10 October 2019.
4. Technical information meetings on road issues on different topics that relate to this service.
5. Programming for the organization of the first National technical days on road conservation

FRANCE



PIARC CTERM meeting at IFSTTAR 27-28 September 2018

The PIARC Terminology Committee (CTERM) met on 27 and 28 September 2018 at IFSTTAR in Champs-sur-Marne, for its 6th meeting of the current term of office (2016-2019). This meeting follows those in Tallinn, Estonia, at the end of August 2017, and Tehran, Iran, in early May 2018, where participation was quite limited. 12 members participated, from Austria, Belgium, Czech Republic, Belgium, France, Iran, Romania, Spain, Switzerland, United States.

The PIARC Road Dictionary, developed and maintained by CTERM, was presented to the new members. An update on the progress of translations into 16 languages other than the official languages (English, French and Spanish) was made. The review (sorting, definitions and translations) of bridge terms then occupied a large part of the meeting, following the work undertaken in Tallinn last year (about 250 terms were proposed by the bridge committee).

PIARC Deputy Secretary General Robin Sébille honoured CTERM with his presence on Thursday afternoon.

CTERM would like to thank the French committee of PIARC for taking care of the catering and in particular the friendly dinner on Thursday.

Bernard Jacob - French-speaking Secretary of TC B4 (Freight Transport) and corresponding member of CTERM

PIARC International Conference on Road Tunnel Operation and Safety", a first successful conference in Lyon.

The international community of underground structures met in Lyon for this international conference initiated by the PIARC Tunnels Committee and CETU. This community is very strongly mobilized on the theme of safety and the operation of road tunnels.

In order to promote the latest knowledge on current issues and to facilitate technical exchanges and debate between stakeholders, PIARC and its French Committee have decided to organise their first "International Conference on Road Tunnel Operation and Safety". This event was organised with the support of the European Commission, the Committee for the Safety of Underground Infrastructure Operations, the Centre d'Etudes des Tunnels and the French-speaking Working Group of Road Tunnel Operators. It was intended for project owners, operators, emergency services, designers, safety agents and equipment manufacturers.

The conference was held at the Lyon Convention Centre from 3 to 5 October 2018. It brought together more than 300 participants representing some 40 countries.

The speakers, who came from all over the world, were all recognized specialists in their field. The following topics were discussed in particular:

- Tools and systems for safety management,
- Sustainable exploitation: societal, environmental and economic issues,
- Safe operation of road tunnels,
- Security systems and equipment,
- Challenges related to the development of intelligent transport systems and new propulsion modes,
- Technical equipment - current practices and perspectives,

At the same time, an exhibition, bringing together more than 30 organizations, was held at the very heart of the conference site, allowing suppliers, installers and engineering service providers to promote their expertise. This event was closed with a very warm welcome during the technical visits offered by emblematic tunnel operators based in Lyon and the Auvergne Rhône Alpes region (Croix Rousse, Autoroute Lyon-Balagny, Mont Blanc, Fréjus).

Throughout these 3 days, the participants expressed their great satisfaction and underlined the richness of the exchanges and the quality of the organization set up for this international event.

For more information:

<https://www.piarc.org/fr/2018-11-14,PIARC-International-Conference-Tunnels-Lyon-Succes-2018.htm>



GERMANY

German Road and Transportation Congress and the accompanying Road and Traffic Exhibition from 12 to 14 September 2018 in Erfurt

This year, the congress was held in the CongressCenter in Erfurt. Over 1,100 people came to Erfurt to learn and share knowledge on mobility and traffic planning, structural engineering, and road design as well as on cross-sectoral issues such as local transport systems, infrastructure management, and digitalisation in the road and transportation sector.

On the eve of this year's congress, the chairwoman of the FGSV, Elfriede Sauerwein-Braksiek, presented a number of honours. These included the FGSV Pin, the Otto Graf Award (from the Otto Graf Foundation), the Lürer Pin (from the Lürer Foundation), and the Max Erich Feuchtinger/Bruno Wehner Medal (from the eponymous foundation).

The German Road and Transportation Congress was officially opened by the chairwoman of the FGSV after a tour of the accompanying exhibition. Following this, Head of Department Stefan Krause read out a message from Federal Minister Andreas Scheuer of the Federal Ministry of Transport and Digital

Infrastructure (BMVI). Other welcome addresses were given by Secretary of State Klaus Sühl of the Ministry of Infrastructure and Agriculture in the state of Thuringia and Deputy Alexander Hilge of the Department of Urban Development, Construction, Transportation and Property in the City of Erfurt, the capital of Thuringia. The congress was honoured that the President of the World Road Association (PIARC), Claude van Rooten, also gave an address, emphasising the myriad, close relations between PIARC and Germany and, in particular, the FGSV.

During breaks in proceedings, delegates had plenty of time to visit over 145 stands at the Road and Traffic Exhibition and to learn all about the latest engineering developments in the fields of transportation planning, road design, traffic engineering, construction materials, road construction, environmental technology, digitalisation, and mobility strategies.

Day One of the congress ended with delicious food and drinks in the pleasant indoor and outdoor surroundings of the Kaisersaal in the Old Quarter of Erfurt.

On Thursday, 13 September 2018, delegates enjoyed a highly interesting keynote address entitled 'Driving. Waiting. Flow. How our sense of time develops' by the psychologist and human biologist Marc Wittmann. Wittmann, who researches time and works at the Institute for Frontier Areas of Psychology and Mental Health (IGPP) in Freiburg, told of his findings on the subject of how we perceive time.

The congress was rounded off by the Research Forum on Friday, 14 September 2018. Two renowned experts in the field, Klaus Bogenberger of the Chair of Traffic Engineering at the Universität der Bundeswehr (University of Germany's Unified Armed Forces) in Munich and Ning Wu of the Chair of Transportation at the Ruhr-Universität Bochum (Ruhr University Bochum) were on the podium for this event to compare the road and transportation research in the USA and in China. The discussion was moderated by Fritz Busch of the Chair of Traffic Engineering and Control at the Technische Universität München (Technical University of Munich).

The German Road and Transportation Congress 2018 in Erfurt drew to a successful conclusion with a closing address by the chairwoman of the FGSV. The next congress will take place in Dortmund from 7 to 9 October 2020.

Meeting of Technical Committees in Germany

STB Committee B.1 "Road Network Operations / Intelligent Transportation Systems" from May 3.-4. 2018 in Munich.

ITALY



MEETING OF THE CHAIRMEN, VICE-CHAIRMEN AND SECRETARIES OF THE PIARC ITALIAN TECHNICAL COMMITTEES

On 27th September, the fifth meeting of the Chairmen, Vice-Chairmen and Secretaries of the Italian PIARC Technical Committees (see pictures below) took place. The following items were on the agenda:

- PIARC Strategic Plan 2020-2023 general guidelines
- Preliminary discussion on candidacies for the membership to the next Technical Committees and Task Forces
- International activities of the Committees and Task Forces (state of the art of final international reports, meetings in Italy, missions abroad)
- PIARC Italia National Congress (Rome, 14-16 May 2019)

Italian participation in Abu Dhabi World Road Congress 2019: as for the call for papers of the PIARC General Secretariat and the submission of abstracts, Eng. Saverio PALCHETTI, Coordinator of the Technical Committees, underlined the strong participation of Italy. Furthermore, he agreed upon the necessity of organizing the Italian participation in the World Road Congress and the Italian visibility through the Pavilion.

As is well known, Italy has adopted at national level the same technical committees and task forces (TC/TF) as PIARC worldwide, during the meeting the TC/TF presented the draft of their final reports.



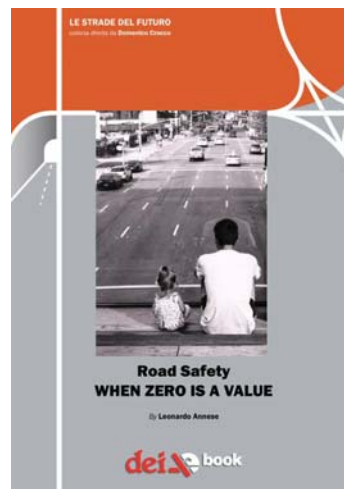
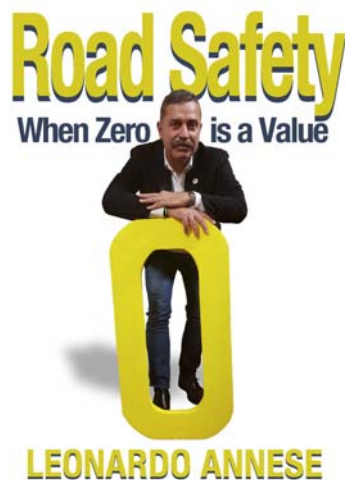
Chairmen, Vice Chairmen and Secretaries at TC/TF Italian NC Meeting

PIARC TC D5 MEETING HELD IN SALERNO

PIARC Technical Committee D5 Road Tunnel Operations held its meeting in Salerno organised by Prof. Ciro CALIENDO of the University of Salerno- Roads, Railways, Airports Department- with the participation of the Italian TC D5 Chairman, Eng. Salvatore GIUA.

PRESENTATION OF THE BOOK “ROAD SAFETY – WHEN ZERO IS A VALUE” by Leonardo ANNESE

Within the Book Collection “Le strade del Futuro” directed by Mr. Domenico CROCCO, was presented the book “ROAD SAFETY – WHEN ZERO IS A VALUE” by Mr. Leonardo ANNESE (see photos below), member of PIAR TC C1, which wants to accompany both those who are just approaching road safety and need to know what is being done in the world to reduce or even zero deaths and injuries caused by road crashes and those who are more accustomed to the subject but need something that gives an overall view of the matter.



PARTICIPATION OF THE REPRESENTATIVES OF ITALIAN NC IN THE YOKOHAMA COUNCIL

From 22nd to 26th October last, Eng. Massimo SCHINTU and Eng. Saverio PALCHETTI participated in the meetings of Strategic Planning Committee, Executive Committee and Council. During the Council meeting Prof. Pietro GIANNATTASIO (see photo below-left) was nominated PIARC Honorary Member (see picture below).

Eng. Massimo SCHINTU (see photo below-right), following the resignation of Eng. Gianni Vittorio ARMANI, was recently appointed *pro tempore* President of the Italian National Committee.



ITALIAN TC B5 “CONNECTED AND AUTOMATED VEHICLES “ ACTIVITY

The four Working Groups within this Committee: 1. Automated Vehicles, 2. Smart Roads, 3. Cybersecurity, 4. Regulation, are carrying on their activities and held their meetings aiming at the drafting of the report by year end.

IVORY COAST



The problem of road-related networks addressed by the IAT 2018

Dr Paulin Kouassi, President of the IAT 2018 Scientific Committee and President of the National Committee Côte d'Ivoire Road (Cnci-Route).

Dr. Kouassi presents the challenges of the exhibition which took place from 08 to 10 November 2018 while recalling the recommendations of the previous edition.

As in November 2016, the organisers of the Abidjan Infrastructure Fair (Sia), the Groupement Ivoirien du Bâtiment et des Travaux Publics (Gibtp) and the Axes Marketing agency have renewed their confidence in you for the SIA 2018.

What did you learn from your involvement in the last SIA, which had as its theme: "Infrastructure in Côte d'Ivoire: challenges and opportunities"; and what were the recommendations?

My mission was to organize the scientific aspect, including panels and training. The recommendations from the fair represent GIBTP's contribution to improving management and governance in the infrastructure sector. They concern the establishment by the State of a guarantee fund for support to SMEs, and the adoption of measures for the timely payment of invoices with a view to making companies viable; the revision of budgetary policy taking into account public-private partnerships and multiannual contracts; the establishment of a framework for consultation between the various actors in the infrastructure sector; the establishment of an alert mechanism on the state of infrastructure, etc. For the training component, it was recommended that a policy be put in place to train entrepreneurs in the education system, as well as training in the specialization of companies by sector of activity.

What does the theme of the 2018 edition, "Designing spatial planning by integrating smart grids" inspire you? It is true that development has always been done by integrating networks. Through the chosen theme, Gibtp would like to make proposals to the public authorities in order to optimise spatial

planning, the management of the various networks (water, electricity, sanitation, telephony, roads, etc.), and to minimise the impact of network relocation on costs and project implementation times. This issue takes into account the issue of energy efficiency, which is of concern to all States in the world today, and the issue of optimizing public spending on infrastructure projects.

Today, it is recommended to create Cities of the Future or Smart City.

What will happen to old cities with outdated networks and uninhabited territories?

Smart grids are material distribution (electricity, water, gas, oil, etc.) and/or information (telecommunications) grids that have been made intelligent by computer systems, sensors, computer and electromechanical interfaces. They make it possible to optimize flows. It is important, in order to protect our planet, to promote energy efficiency. This does not mean that the old cities should be razed to the ground. They are part of our past and it is necessary that they remain to be elements that will strengthen the witness for future generations. Some of them may be improved. For territories that are still uninhabited, it is important to think about their development by integrating smart grids. This will ensure that the networks are well structured from the outset and avoid the significant expenses involved in moving them during construction projects.

What do studies on the financial and technical constraints caused by network relocation reveal?

We have sometimes noted that the cost of network travel can represent more than 10% of the project cost for road works. The projects for which we have observed high costs include: the Abidjan Third Bridge project, the highway linking Abidjan to Grand Bassam. Currently, for the Boulevard de Marseille expansion project, network movements represent approximately 35% of the contract amount, i.e. 7.6 million euros.

In reality, the networks are not always perfectly known to the owners and, at the study stage, it is sometimes necessary to make provisions, on the basis of a rough estimate, for the cost of travel. It should also be noted that instead of just travelling, some operators are completely rehabilitating their network.

It should be noted that the cost of network travel is, in most cases, entirely borne by the State because development partners prefer to focus, for the most part, on financing the work and pay little attention to the movement of existing networks from the project's right-of-way.

The other problem encountered is the coordination of actions in the implementation of various development projects in the same right-of-way, so that some networks have been moved more than once.

Changes in deadlines that involve additional costs!

Obviously, this question has a strong influence on the time required to complete projects. Indeed, the State that had not necessarily budgeted for this displacement is obliged to find resources to deal with it, at the risk of losing project funding when it comes to external support.

When funding is available, the intervention times of the operators in charge of network relocation work must be taken into account. The disruptions caused by these trips on the services provided to users are undeniable. This can result in a loss of revenue for operators as well.

At the same time, the contracting company for the construction works for which the networks will have to be relocated no longer has control over its deadline, even though it has already mobilized its teams, and only the contractual duration of the works should be paid to it, unless it has an amendment to its contract.

In reality, work start orders do not always take into account network relocation operations that could be impacted.

This is a very important subject that Gibtp proposes to address. I think it is important, if this has not yet been done, to conduct a study to document this issue.

Interview conducted by

Paulin N. Zobo

(Excerpt adapted from the IAT 2018 magazine)

Paulin KOUASSI - CNCI-Route: President; <https://www.piarc.org/fr/>



MEXICO

PIARC Council Meeting

Yokohama, Japan 24th – 25th October 2018

As every year, the World Road Association held the Council meeting with the participation of the member countries. As it is a tradition, Mexico was present through its first delegate, the president of the Mexican National Committee, the past president of PIARC and its support team. On this occasion, the Council elected new honorary members and the venue for the World Road Congress in 2023. During the voting process, H. Ovalle president of AMIVTAC (Mexico's National Committee) was chosen as one of the 2 tellers who supervised the election.



In the first line from right to left, the 3 Mexican members delegation in Yokohama.

National Committees Meeting

Yokohama, Japan 26th October 2018

Because of the Campeche meeting, H. Ovalle, president of AMIVTAC, presented an update of the Benchmarking study of PIARC National Committees in which the general characteristics of each National Committee are identified, the study is based on the information that National Committees have available on their websites.

The aim of this study is to improve communication between National Committees and to establish content criteria for CCNNs to help promote activities, products, present contact information, etc. for collaboration between CCNNs and PIARCs.



Participation of AMIVTAC in the National Committees Meeting

Seminar: Management and development of road infrastructure

Puebla, Mexico October 4th and 5th, 2018

In order to promote and disseminate technical knowledge on highways, last October 4th and 5th, the seminar: "Management and Development of Road Infrastructure" was held at the Faculty of Engineering of the Benemérita Universidad Autónoma de Puebla, organized by Puebla's AMIVTAC Delegation and the university.

This event was made up of keynote lectures and panels where participants exchanged experiences. It brought together both, public and academic sectors. Among the topics addressed, the ones that stand out were: Importance of Coordination among Government Orders, for a Better Planning and Application of Road Infrastructure Resources, Planning and Programming of Road Infrastructure, essence of Solid and Effective Budgets in Government Administration, Public Policies for the Management of Federal and State Resources in Road Infrastructure, among others.



Seminar: Management and Development of Road Infrastructure Opening Ceremony

2nd International Symposium: Environmental Sustainability on Roads

Guadalajara, Jalisco November 8th and 9th, 2018

Jalisco's AMIVTAC delegation held the 2nd International Symposium: Environmental Sustainability on Roads, 9 presentations were made by speakers from Chile, Germany, Spain, USA, UK, and Mexico.

The International Symposium was attended by 450 attendees: 200 experts and 250 students from different universities, in addition to the participation of 19 states of Mexico. At the end of the event, the president of AMIVTAC Jalisco mentioned that thanks to this event, Mexico now has sufficient elements to make a diagnosis and know where it is in terms of environmental sustainability in highways and how to improve the current condition since there is still much to learn.



Opening Ceremony of the International Symposium: Environmental Sustainability on Roads

National Competition, PIARC prizes 2019

Mexico, October 2018

To encourage the participation of Mexican engineers and specialists, AMIVTAC organized the National Competition for the PIARC prizes 2019, which had great results in its first stage.

29 abstracts of Mexican authors were accepted, making Mexico the country with the highest number in the American continent and the third in the world. In addition to being the National Committee whose national contest had the most approved abstracts.

Magazine: Vías Terrestres

No. 56, November 2018

The 56th edition of the magazine Vías Terrestres includes a summary of the XXII National Road Engineering Meeting: "Strategic Infrastructure Security" In addition to articles related to Mexico's New International Airport, asphalts, bridges, environmental issues, and digital development, toll roads among others.

This issue and previous editions of the magazine are available electronically free of charge at <http://www.amivtac.org/revista.php>



Magazine: Routes / Roads

No. 378, 2018

Issue No. 378 of the Routes / Roads magazine includes an article on AMIVTAC in the section for National Committees, which also discusses Mexico's road network.

POLAND



1. Activities:

Participation in the annual National Committees meeting

Polish National Committee of PIARC was established in February 2018 during XV International Winter Road Congress in Gdansk and this year annual meeting of National Committees in Yokohama/Japan was first in which representative of Poland took part. Meeting was the occasion to establish close relation with other National Committees from the region of Central and Western Europe.

2. Events:

a. Mastic asphalt: requirements and performance

Seminar took place in Cedry Wielkie near to Gdansk from 6.09.2018 to 7.09.2018.

Polish National Committee established Pavement Committee which was responsible for this event together with Polish Road Administration – General Directorate for National Roads and Motorways. During the seminar were presented theoretical conditions and the existing Polish and international experiences covering this technology. The conference program also included a technical visit for the construction of the S7 Elbląg-Gdańsk road for a practical demonstration of the mastic asphalt surface.

In this event took part also experts from Switzerland, Germany and Austria. Due to that fact this event was real exchange of best practices and knowledge in this specific area. Main conclusion from this event was that even if this solution can be considered as more extensive it is more durable and lasts for a longer period without extensive maintenance and rehabilitation.

b. V Road Forum in Warmian-Masurian region

The event took place in a charming region on the North-Eastern part of Poland in the small lake city Ryn from 23.09.2018 to 25.09.2018. This year edition was titled "the roads of the future". This conference was organized by the Polish National Committee of PIARC and the Regional road authority of Olsztyn region. In the event took part almost 200 participants from public and private sectors as well as from the Polish Road and Bridges Institute.

Participants had a chance to take a note about upcoming changes in the road transport sector as the main conclusions from the Transport Research Arena event were presented.

Main dimensions in European countries are visible in electromobility and the possible increase of weight of heavy trucks. This will have a great influence on the future road network but also on climate changes.

The event had an international character as it also hosted guests from Germany.

"The roads of the future" was also the theme of the educational picnic, which traditionally opens the Warmian-Masurian Forum. The aim of the educational picnic was to promote the principles of road safety, pro-ecological behaviour and to present the latest trends and achievements of the road industry. The picnic was held in the Olsztyn's Old Town.

c. Roads connecting friends – tripartite conference between Poland, Czech Republic and Slovakia

On the beginning of October (03.10.2018 - 05.10.2018) in the small picturesque village Lipowa in the south of Poland near the border with the Czech Republic and Slovakia the Polish National Committee of PIARC had the great honor to organize the Polish-Czech-Slovak meeting. This conference was devoted to discussing cross-border road projects carried out by regional road administrations of three neighboring countries. Common projects, often supported by European Funds help regional and local governments across Europe to develop and deliver the best solution for local societies and citizens of small communities. Those investments, innovations and implementation efforts all lead to an integrated and sustainable impact for people and place.

Local road authorities were supported by their national PIARC Committees. The Polish National Committee President hosted the Czech and Slovak presidents of National Committees.

In order to strengthen already excellent relations and underline the family spirit of the meeting it was decided that the integration of road administrations was supported by a football tournament with the participation of road management representatives.



Poland - Czech Republic

In the INTERREG Poland - Czech Republic program, EUR 250.4 million is planned for projects, and the maximum co-financing rate may amount to 85%. 60 % of the program's budget can be devoted to "developing natural and cultural potential for supporting employment" and this also includes road projects. 51.5 million euros have been allocated for road infrastructure. Two calls were made, as a result of which 7 projects were co-financed, which exhausted the available allocation.

Poland - Slovakia

The value of the INTERREG Poland - Slovakia program is 182,4 million euro, including the budget for projects from the European Regional Development Fund is 145.7 million EUR. Under this program, EUR 55.8 million, or 36% of the budget, is to support sustainable cross-border transport. Co-financed can be: construction and modernization of roads enabling connection with the Trans-European Transport Network and creation of an integrated network facilitating communication between partner countries.

ROMANIA

The Professional Association for Roads and Bridges from Romania (Romanian National Committee of PIARC) organized, together with the **National Company for Management of Road Infrastructure**, the **XV-the National Congress for Roads and Bridges** at Iasi, during 19-22 September, 2018.

From Romania, representatives of the road administrations, construction companies, equipment producers, upper level education, researchers and designers (over 450 participants) were invited. From abroad, representatives of well-known road and bridge construction, research and consultancy companies from 7 countries: Croatia, Poland, France, Italy, Austria, Czech Republic, Moldavian Republic, were invited to participate.

The 90 scientific papers were divided on the three PIARC Strategic Themes (ST 1 Sustainable road infrastructure / ST 2 Mobility, traffic and road safety / ST 3 Environment and climate change). 19 companies sponsored the congress, 19 companies took part in the exhibition and there were 25 posters presenting the scientific papers or works carried out by the participating companies.

The works of Strategic Theme 1 are compiled by 102 authors from Romania, Australia, Austria, Brazil, Chile, France, Italy, the Republic of Moldova and the United States of America, specialists in research and higher education institutions, road administrations or consultancy and execution design companies. ST 2 has 25 authors from Romania, Republic of Moldova and Australia. ST 3 has 32 Romanian authors.

Among the subjects that have given rise to more developed concerns of the authors are mentioned: improvement of the methodologies for assessing the technical condition of roads, rational construction of road structures, diversification of road construction and maintenance technologies, impact of construction, maintenance and exploitation of the environment regarding the climate change conditions that affect the planet globally.

Ensuring the stability and durability of embankments is one of the constant concerns of road specialists. As no work has been done to bring national strategy issues of road and highway construction and maintenance into attention of congress participants, it is considered that this issue is particularly necessary to be debated and translated into short, medium and long term action projects.



SLOVAKIA



Slovak Road Workers Days 2018

The 23rd Slovak Road Workers Days was held on October 11 - 12, 2018 in Košice. The event was organized by the Slovak Road Association in cooperation with Road Authority of Košice Self-governing

Region and attended by more than 250 participants. The event took place under the auspices of the Minister of Transport and Construction of the Slovak Republic and the chairman of the Košice Self-governing Region. The expert part of the program was devoted to the road management and road network development, road administration and maintenance and traffic accidents in Kosice Self-Governing Region. During the technical excursion, the participants of the conference also visited the part of construction of new "D1 Budimír-Bidovce" motorway. During the event, the Slovak Road Association awarded the prizes for the year 2018. Traditional part of the event was a football tournament and a Snow plough Rodeo, in which Slovak drivers of winter maintenance vehicles compared their skills. The next year of the Slovak Road Workers Days is going to take place in October 2019 in Trenčín Self-governing Region.



Road Careers Days 2018

Nearly thirty high school students took part in the Road Careers Days 2018, which took place on September 14, 2018 at the Faculty of Civil Engineering of the Slovak University of Technology in Bratislava.

The fourth year of Road Careers Days was organized by the Slovak Road Association in cooperation with the Faculty of Civil Engineering of the Slovak University of Technology in Bratislava. The aim of the event is to bring the students of secondary schools closer to the problems of road construction and road management, to inform them about the possibilities of interesting studies in the field of engineering and road construction and to motivate them to further education/studying in this field. During opening ceremony, the students were greeted by the Dean of the Faculty of Civil Engineering Slovak University of Technology in Bratislava professor Stanislav Unčík and President of the Slovak Road Association Ján Šedivý. During the day, the popular lectures on topics such as road engineering and modeling of transport, bridges and bridge construction, road construction, road management and diagnostic of pavement conditions were presented.



THE ROAD DAY

In November 08, 2018 representatives of the Slovak Road Administration (SRA), Section 2000 – Technical Development in cooperation with the Slovak Road Association branch at SRA, have already prepared the twenty-fifth discussion forum Road Day entitled:

- 1) "ADVANCED ROAD TELEMATICS AND METROLOGY"
- 2) "SONICMAC OXYGEN BARRIERS"

The patronage of the discussion forum was taken over by the director of the technical development department of Slovak Road Administration Mr. Jozef Polčic. The professional guarantor was Mr. Libor Sušil, Marketing & Business Development Manager from CROSS Zlín.

Two lectures were lectured at the event, divided into two blocks:

BLOCK 1

"Addition and classification of transport, application of value-added weighing technology, the highest level of road meteorology."

Mr. Martin Noskovič, Representative for Intelligent Transport Systems, ALAM, s.r.o.

BLOCK 2

"Sonic MAC environmental noise barriers"

Mr. Jaroslav Adamec, Mr. Luboš Lichý, MACCAFERRI CENTRAL EUROPE,s.r.o.

In the first block, the lecturer informed in detail about the technologies, unique systems that can be used in the road industry. Several transport technologies have been introduced: traffic management, telemetry systems for traffic detection and classification, including dynamic vehicle weights WIM systems, road meteorology and parking systems.

The participants were introducing the connection of individual technologies and their direct interconnection to the user - citizen, administrator, city, service organizations ... At the same time, several possibilities of using acquired data from the technological devices concerned were presented.

The second block focused on green noise barriers "SONICMAC GNB". The lecturer of the participants acquainted with the technical and technological parameters of these products. He presented several realizations and also informed about the advantages of these noise barriers. I think the themes were very interesting not only for road infrastructure users, but also for the broad professional public who can participate in Road Day. I would like to point out that this forum is a forum for discussing issues that we are having trouble with, we need to advise or just to inform our colleagues, suppliers, investors, the public. It is a space for sharing mutual experience, obtaining up-to-date information as well as new contacts.

The participation, the professional composition and the corporate presence of the attendees were very pleased with us. A number of questions have been discussed and answered during the discussion which was directly after the presentations, but also in backstage. We are sincerely looking forward to this and, at the same time, we understand this as proof of the meaningfulness of our work. The proof of that are the 66 participants I believe that the theme of another „Road Day“ will also be interesting.

We thank all those who have shown interest in this action and understand that we are also working together to solve the problems that we are struggling with.

In Bratislava, 20 November, 2018

Processed by: Mrs. Daniela Čanigová, Slovak Road Administration



ROAD SAFETY 2018

Information from the Conference with International Participation

On 12.09.2018 - 14.09.2018 was held after fourteen times an international conference on road safety at the Atrium Hotel in Starý Smokovec. The conference was held under the auspices of the Slovak Minister of Transport. The event was attended by 120 participants involved in the field of road safety. During the conference, 19 expert papers and 2 company presentations were presented. Professionally, the conference was organized by the Slovak Road Association - a subsidiary of the Slovak Road Administration together with the Slovak Road Administration.



The aim of the conference was to provide information on road infrastructure with an emphasis on improving transport safety. The conference was addressed to civil servants, self-government workers, regional and district police headquarters – the traffic police department, contract or contractors as well as representatives of higher education institutions.

Conference thematic blocks and their main ideas:

1. Development of traffic accidents in Slovakia

In this block, statistics on the evolution of total traffic accidents were reported. SSC activities in the area of traffic accidents black spots (BS) were summarized in a conference brochure presentation. Colleagues from the Czech RCD presented their program to record the defects identified in road safety inspections with the possibility of deducting the implementation of the measures. In the final contribution, the negative impact of public procurement on the quality and lifetime of the roads was pointed out, if the price was the main and the only criterion. It was also pointed out the connection between the poor quality surfaces obtained and the emergence of wet sites.

2. Traffic signs and safety devices on the Slovak road network

In this block, the National Road Administrators the ŘSD ČR and NDS SR presented their experiences with catching devices, their special parts and types such as shock absorbers, transition parts and opening guides. EU standard detention levels, technical standards and design solutions for designers have been compared. HYDRO BG has presented its prefabricated elements made of durable vibro-molded concrete.

3. Tunnels – Technical Equipment, Operational Security and Safety

In this block, the National Intermediary Company presented its views on tunnel safety regulations, possible changes in signaling in tunnels, less frequent petition of the maximum permissible speed or, if the speed is exceeded, the light on the mark. The follow-up lecture highlighted the aggressive influence of sulfur compounds on the concrete surfaces of the tunnel, as well as on technological equipment. Deltech and Robert Bosch, delivering camera recognition technologies for tunnels and other traffic situations, have demonstrated their automated systems. Dekras.r.o. has been able to dispose of oil products from the road after traffic accidents, as well as the organization of such an intervention. The procedure for the technical analysis of a traffic accident caused by inadequate vehicle maintenance was presented by Slovdekra, s.r.o.

The block was closed by the presentation of Hilti Slovakia s.r.o. devices and fasteners. in the hotel's exterior.

4. Technical solutions for road safety

The issue of falling rocks on road communications was presented from the perspective of NDS, a.s. on section R2 Budča -Zvolen .. There construction of Strečno Castle was introduced as a technically organizational task from demanding detour routes. Maccaferri Central Europe has been successfully complemented by the introduction of its networks for the retention of falling rocks and related technologies.

ZTS electronics SKS, s.r.o. as a traditional supplier of measuring devices for the application of objective responsibility, presented its latest products.

The interesting ending of the program was a commented visualization of the reconstruction of a road bridge between the towns of Komárno and Komárom.

Mr. Ivan Dohnal, Mrs. Daniela Čanigová - Professional conference guarantors



SPAIN

TECHNICAL CONFERENCE: "SAFETY ROAD - OPENING UP THE WAY FOR THE DEPLOYMENT OF NEW TECHNOLOGIES TO IMPROVE ROAD SAFETY". Logroño, 25 and 26 October 2018



Since 2013, with 1.680 deaths on interurban and urban roads, the number of road fatalities is growing every year, rising to 1.688 in 2014 and reaching 1.827 deceased in 2017.

Mortality on conventional roads is much higher than on high capacity roads, representing 72% of the total road deaths. Road deaths are caused by one (or more) of these traffic offences: high speed, distractions, mainly by the use of mobile phones while driving, or the ingestion of alcohol and other drugs, as well as the failure to wear a seat belt. Road managers are beginning to implement new technologies to minimize this big problem.

The intention of this Conference (attended by more than 110 persons) has been to share the already collected experience, knowledge, implementation and development in order to change the current trend of deaths on the road.

TECHNICAL CONFERENCE: “ENVIRONMENTAL ANALYSIS AND COSTS THROUGHOUT THE LIFE CYCLE OF ROAD PAVEMENTS”

Madrid, 6 November 2018



The main points raised have been:

- The LCA as a tool to determine the sustainability of pavements
- Consideration of environmental aspects in public road contracting
- Labeling and environmental certification

In short, the idea has been to analyze in detail the environmental, economic and social aspects associated with the life cycle of road infrastructures. This analysis has been reflected in a Monograph promoted by the Ministry of Development, developed by our National Technical Committee on “Pavements” together with CEDEX and with the cooperation of other Spanish associations: Asefma, IECA, Ateb, AENOR and UNE. The Conference has been attended by over 115 participants.

PIARC TC E.2 MEETING HELD IN MADRID

PIARC Technical Committee E.2 “*Environment Considerations in Road Projects and Operations*” held its last meeting in Madrid, from 8 to 10 October 2018.

COURSE FOR CONTROL CENTER OPERATORS OF ROAD TUNNELS – Santiago de Compostela, 6, 7, 8 and 9 November 2018

The course organized by our National Technical Committee “Road Tunnels” has been attended by 33 participants.

The Control Center Operators constitute a fundamental pillar for Road Tunnel Operations, as they are often responsible for giving the first alarm in case of emergency. This course is aimed at staff working in the Control Room.

For further information about our Courses and Conferences please have a look onto our website: www.atc-piarc.com

THE BOARD OF DIRECTORS MEETING of the Technical Road Association (ATC)/PIARC Spanish National Committee has been held in Madrid on 27 November 2018.

During this Board Meeting **Mr. Luis Azcue** and **Mr. Fernando Pedraza** have received the **Medals of Merit** of the Technical Road Association (ATC). Both have been for years, and still are, actively involved in our National Technical Committees and in PIARC.



From left to right: Mr. Fernando Pedraza from the Ministry of Development, Mr. Francisco Javier Herrero, PIARC First Delegate in Spain and Mr. Luis Azcue from the Ministry of Development.

Our **V NATIONAL SANDRO ROCCI AWARD FOR YOUNG PROFESSIONALS** (for an amount of 3.000 €) has been given during this meeting to **Mr. David Llopis Castelló**, for his work "Calibration of the inertial operating speed as a replacement measure for drivers' expectations".



From left to right: Mr. David Llopis Castelló, Mr. Pere Navarro, Director of the General Directorate of Traffic (DGT) and Mr. Francisco Javier Herrero, PIARC First Delegate in Spain.

RUTAS Magazine



Number 176 (July-September 2018) of our quarterly RUTAS Magazine has been released.

We offer the possibility of downloading our RUTAS Magazine in digital format from our website: www.atc-piarc.com

If you wish to receive our digital RUTAS Magazine directly, please send an email to: info@atc-piarc.com



FORTHCOMING EVENTS:

VII ROAD TUNNEL SYMPOSIUM *“Tunnels: Shorten distances, connecting people. Current overview and good practices”* - Barcelona 12, 13 and 14 February 2019

In 2019 it will be 25 years since the 1st National Tunnel Symposium was held in 1984 in Gijón with great success. Four years later the II Symposium took place in Jaca and so on until the VI Symposium which was held in Zaragoza in 2015.

The Technical Road Association, (ATC), as PIARC National Committee, has as one of its objectives to organize a National Symposium for each of its Committees every four years. Throughout all these years, major issues had been addressed related to the safety, improved operations, maintenance, repair, new technologies, risk analysis, evacuation systems, drills, emergencies, sustainability... matters that are still in force and of great topical interest but due to the updating of the legislation, the new and greater users demand, and the globalization of today's world it is highly recommended to continue debating on them. This Symposium organized by our Technical Committee "Road Tunnels" is a unique opportunity to bring together stakeholders on this matter. Website of the Symposium: <http://www.congresosatcpiarc.es/stc2019>

World Road Association Congress



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