

Rapport d'activités des CN 2012

2012 Activity Report of NCs

RÉSUMÉ**SUMMARY****Article / Question** **Item / Question**

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1. Information générale**1. General information****Pays**

ESPAÑA (Espagne)

Country

SPAIN

Nom du CN

Comité Nacional Español de la AIPCR

Name of NC

PIARC Spanish National Committee

Président du CN**Mr. Roberto Alberola García**

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E-mail: info@atc-piarc.comWEB: <http://www.atc-piarc.com>**Chairman of NC****Secrétaire du CN****Mrs Belén Monercillo Delgado**

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E-mail du président et du secrétariat de la NC	E-Mail address of Chairman and secretariat of NC
info@atc-piarc.com info@atc-piarc.com	info@atc-piarc.com info@atc-piarc.com

Nombre the membres individuels / collectifs	Number of individual / collective members
92 individual members /173 collective members	

Organisation et structure	Organisation and structure
<p>The Technical Road Association – ATC (Asociación Técnica de Carreteras – ATC) provides the secretariat for the Spanish National Committee of PIARC.</p> <p>ATC has 20 National Committees, 12 active, with approximately 40 members per committee. They must support international members as well as studying interesting themes in Spain.</p>	

2. Conférences, séminaires, réunions des CT en 2012	2. Conferences, Seminars, TC meetings in 2012
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Organisation des CN: nationale/internationale	Organisation by NCs: national/international
<p>TECHNICAL CONFERENCE ON MAINTENANCE OF STRUCTURAL SUPPORT APPLIANCES, DRAINAGE STRUCTURES AND JOINTS ON BRIDGE CONSTRUCTION – Madrid, 26 January, 2012</p>	
<p>TECHNICAL CONFERENCE ON SURFACE AND DEEP DRAINAGE IN TRANSPORT INFRASTRUCTURE – Madrid, 2 February, 2012 <i>Lectures can be downloaded from our website: www.atc-piarc.com</i></p>	
<p>TECHNICAL CONFERENCE IAP-11 Instructions on the actions to be considered in Road Bridge projects - Madrid, 21 February 2012 <i>Lectures can be downloaded from our website: www.atc-piarc.com</i></p>	
<p>COURSE ON WIRELESS SENSOR NETWORKS AND ITS APPLICATIONS IN TRANSPORT INFRASTRUCTURE - Madrid, 7 March 2012</p>	
<p>BASIC COURSE ON SLOPE STABILITY CALCULATION BY LIMIT EQUILIBRIUM METHODS - Madrid, from 24 to 26 April, 2012</p>	
<p>TECHNICAL CONFERENCE ON HIGHWAY CAPACITY MANUAL 2010 - Madrid, 8 May 2012</p>	
<p>TECHNICAL CONFERENCE SUSTAINABLE ACTIONS FOR ROAD PAVEMENTS MAINTENANCE - Madrid, 5 June 2012 <i>Lectures can be downloaded from our website: www.atc-piarc.com</i></p>	
<p>COURSE ON GRAPHICS SYSTEMS DESIGN APPLIED TO THE DESIGN AND IMPLEMENTATION OF ROADS - Madrid, 11,13,18 and 20 September 2012 <i>A second call for this Course is planned for 25, 27 September + 2 and 4 October 2012.</i></p>	
<p>COURSE ON ROAD SURFACES, MATERIALS, DESIGN AND REHABILITATION Madrid, 27 and 28 September, 4 and 5 October and 18 and 19 October 2012</p>	

Travail conjoint avec d'autres organisations nationales	Joint organisation with other national institutions

Travail conjoint avec d'autres CN	Joint organisation with other NC

Réunions des CT	TC meetings

3. Publications en 2012	3. Publications in 2012
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Publications nationales, rapports	National publications, reports
<p>Book stating lectures on the TECHNICAL CONFERENCE ON MAINTENANCE OF STRUCTURAL SUPPORT APPLIANCES, DRAINAGE STRUCTURES AND JOINTS ON BRIDGE CONSTRUCTION</p> <p>Pendrive stating lectures on TECHNICAL CONFERENCE ON HIGHWAY CAPACITY MANUAL 2010</p> <p>Pendrive stating lectures on COURSE ON WIRELESS SENSOR NETWORKS AND ITS APPLICATIONS IN TRANSPORT INFRASTRUCTURE</p> <p>Pendrive stating lectures on BASIC COURSE ON SLOPE STABILITY CALCULATION BY LIMIT EQUILIBRIUM METHODS</p>	

Articles dans Routes/Roads	Articles in Routes/Roads
Article about the Spanish National Committee	

Bulletin national ou revue des CN	National newsletter or magazine of NCs
<p>The Spanish National Committee publishes a bimonthly magazine, Rutas (Routes in Spanish language), which is sent to ATC members and to several Latin – American countries.</p> <p>The Spanish National Committee has created a new space on its website which offers the possibility of downloading the magazine in digital format.</p>	

4. Soutien aux premiers délégués	4. Support to First Delegates
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Nomination des membres des CT	Nomination of TC members
Spain is represented in 18 of the 19 Technical Committees with 36 delegates	

Enquêtes et sondages	Surveys and questionnaires
A survey has been distributed to delegates during each event. Until now the spanish NC activity is obtaining outstanding marks.	

5. Congrès de l'AIPCR	5. PIARC Congresses
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Congrès mondiale de la route, Mexico City 2011 (évaluation, résultats)	2011 World Road Congress, Mexico City (evaluation, results)

Congrès international de la Viabilité hivernale, Andorre 2014 (participation, préparation)	2014 Winter Road Congress, Andorra (participation, preparation)
<p>We have included in Rutas magazine nr. 151 (July-August 2012) the following items: Interview with Mr. Jordi Alcobé, Minister of Economy and Territory from Andorra, and a free advertisement page of the Congress in Rutas magazine nr. 151 as well.</p> <p>Rutas Magazie will follow up the organization of this event in order to inform periodically to prospective attendees.</p> <p>We will send the call of papers to our members and other contacts from Spain and South America</p>	

Congrès mondiale de la route, Séoul 2015 (participation, préparation)	2015 World Road Congress, Seoul (participation, preparation)

6. Autres activités en 2012	6. Other activities in 2012
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Assemblée générale, réunions avec les membres des CT, rencontres avec d'autres organisations nationales	General Assembly, meetings with TC members, meetings with other national organisations
The General Assembly took place on 26 June 2012	

Relations internationales	International relations

Promotion de l'AIPCR	Promotion of PIARC
A new section has been introduced in Rutas magazine about the PIARC history, objectives, mission and functions.	

Site Internet des CN	NCs´ website
http://www.atc-piarc.com http://www.congresosatc-piarc.es	

Autres choses	Other business

RAPPORT DÉTAILLÉ SUR DES POINTS CULMINANTS

DETAILED REPORT ON HIGHLIGHTS

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TECHNICAL CONFERENCE ON MAINTENANCE OF STRUCTURAL SUPPORT APPLIANCES, DRAINAGE STRUCTURES AND JOINTS ON BRIDGE CONSTRUCTION – Madrid, 26 January, 2012



This conference, attended by approximately 150 professionals, was aimed at all professionals involved in bridge building, related in a special way with structural support, joints and drainage systems. And not only for those responsible for the maintenance, because if the public designers, builders and engineers do not learn from the actual mistakes related with these issues, they will never improve processes and will repeat the same mistakes.

This Conference was a great opportunity to promote a necessary dialogue between all parties involved in bridge building.

During this Conference the following document was presented: "Maintenance of structural support appliances, drainage structures and joints on bridge construction" which has been drawn up by an expert group integrated into the ATC - PIARC Working Group Committee on Road Bridges and ACHE Committee 4 Use and Maintenance. This is an interesting reference that comes to cover, in depth, with rigor and practical shortcomings in the literature, both the Maintenance Engineering, and the Design and Construction.

The morning session ended with a round table discussion on maintenance operations necessary to ensure the proper duration of the already mentioned elements, as well as their expected performance.

TECHNICAL CONFERENCE ON SURFACE AND DEEP DRAINAGE IN TRANSPORT INFRASTRUCTURE – Madrid, 2 February, 2012

The superficial and deep drainage is one of the most important aspects for the design of linear infrastructure, both road and rail. An inadequate design can be the reason of damage in the road platforms (and reduction of service life) as well as in the surrounding areas (floods, erosion, etc.).

Accordingly, the General Directorate of Roadways from the Ministry of Public Works has been paying special attention to this problem, by publishing in 2003: "Recommendations for the design and construction of deep drainage in road construction", the result of this was the Conference organized by ATC a few years ago in Antequera.

Now, the same Department has expanded its work, focusing more on the field of surface drainage, that's why the Geotechnics Committee organized together with ATC, a new Conference on various aspects of drainage (surface and underground), giving the possibility to submit free- communications.

Some 200 people attended this event, hosted by the Professional Association of Civil Engineers in Madrid.

**TECHNICAL CONFERENCE IAP-11
Instructions on the actions
to be considered in
Road Bridge projects.**

Madrid, 21 February 2012

Instructions on actions to be considered in Road Bridge projects (IAP-11) have been approved by OM 2842/2011 of 29 September and published into the Spanish Official State Gazette on October 21, 2011.

Since 1998, when the mentioned Instructions were approved, there has been a significant change in the regulatory framework of structures: the drafting of the Euro Codes standards, has been gradually accepted by several European countries, as technical Codes for Bridge projects. The aim of this conference is to adapt this IAP to European standards, taking into consideration the maximum possible coherence within the Spanish Regulations.

The IAP-11 sets out the actions and combinations as well as the coefficients to be considered in the Bridge projects of the State Road Network, to allow verification of such road infrastructure components for structural safety and functionality.



**COURSE ON WIRELESS SENSOR NETWORKS
AND ITS APPLICATIONS IN TRANSPORT
INFRASTRUCTURE**

Madrid, 7 March 2012

The use of sensor networks for Monitoring of Transport Infrastructures makes possible to perform operations impossible to perform up to now.

We can get local information from hundreds or thousands of points distributed in specific locations and this provides invaluable data, since we can obtain information in real time by the use of wireless technologies like ZigBee and GPRS, and therefore we can control and act accordingly at the same time.

Structural monitoring, detection of the passage of vehicles, information on parking, real-time information on weather conditions, air quality measurements and noise levels in tunnels are just a few possibilities offered by the wireless sensor networks.



BASIC COURSE ON SLOPE STABILITY CALCULATION BY LIMIT EQUILIBRIUM METHODS

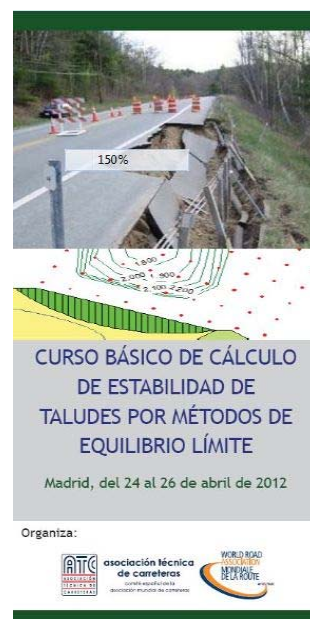
Madrid, from 24 to 26 April, 2012

The first part of the course was a theoretical lecture, through a review of the basic concepts of the Filtration theory and limit equilibrium methods, necessary for its application in slope stability calculations. Then, the content was focused on the practical application of GEOSTUDIO™ software package, with the teachers support.

The last part of the course consisted of a practical exercise to be resolved by the student in the next weeks and finally evaluated by the teachers.

At the beginning of the course the students were provided by a quick guide for using the GEOSTUDIO™ package.

The practical part of the course was carried out using the educational software version GEOSTUDIO™, which has been given to all students for installation on their portable laptops.



TECHNICAL CONFERENCE ON HIGHWAY CAPACITY MANUAL 2010

Madrid, 8 May 2012

Highway Capacity Manual 2010 means a complete renovation of the traffic engineering aspects. Without losing sight of Service Level, it incorporates, for the first time, a complete study of highways and streets infrastructures in order to know the operation of all road infrastructures throughout the rush hour traffic (previously had to be done individually for each component).

Traffic jams elements can be studied, either highway sections or streets, whether in highway entries and exits, intersections or links. It is noteworthy that the methodology for analyzing intersections is completely new.

This Manual provides criteria for assessing Service Level (in road infrastructures other than highways, of course) for bicyclists or pedestrians (in streets and in some intersections). Finally, it is introduced into the manual the Quality Service concept, different from Service Level. This edition is divided into 4 volumes

- Volume 1 – Concepts;
- Volume 2 - Uninterrupted Flow;
- Volume 3 - Interrupted Flow; and
- Volume 4 - Applications Guide (electronic only)

This four-volume format was developed to provide information at several levels of detail, to help users more easily apply and understand the concepts, methodologies, and potential applications presented in the manual.



Volume 4 is an electronic-only volume that registered users will be able to access via the Internet.

This event was thought to uninterrupted infrastructures, highways (with major changes), multilane highways (without major changes), and two-lane roads. The goal was to give an overview of the changes, stressing the difference between Service Level and Quality Service.

Two workshops have been organized as well to learn the use of these methods in highways and two lanes roads.

COURSE ON ROAD SURFACES, MATERIALS, DESIGN AND REHABILITATION

Madrid, 27 and 28 September, 4 and 5 October and 18 and 19 October 2012

The field of pavement engineering is currently supported by a large base of scientific, technological and regulatory knowledge, but however, there seems to be a certain lack of awareness regarding the practical application of that knowledge.

Very sophisticated means and materials are used in the construction of road surfaces, whose employment in inadequate conditions can ruin all the effort previously conducted. Moreover, the technology of road surfaces, especially relative to the bituminous mixtures, is changing, incorporating new technologies and materials, while offering the same level of performance than the traditional ones, obviously improving the sustainable development, reducing the emission of contaminants (mixed temperate), valuing residues of the road (hot recycled and low temperature) or other (rubber powder mixtures from used tires), and reducing acoustic pollution (mixtures of low noise). It is therefore time to share the peculiarities of manufacture and performance of these materials.

This course aims to stress aspects to be considered in the use and application of materials, machinery and procedures, both traditional and commonly used, as well as the new ones.

Information note: We will shortly launch an online edition for South America.



CURSO DE FIRMES
MATERIALES, DISEÑO Y REHABILITACIÓN
Asociación Técnica de Carreteras
Comité Nacional Español de la
Asociación Mundial de la Carretera

Organiza:



COURSE ON GRAPHICS SYSTEMS DESIGN APPLIED TO THE DESIGN AND IMPLEMENTATION OF ROADS

Madrid, 11,13,18 and 20 September 2012

Our professional environment demands that we are capable of relaying technical information using simple graphic systems that have the ability to transmit data properly structured and presented. The aim of this course on Graphics Systems Design, using Vector and Raster applications like AutoCad 2013, Adobe Photoshop and Adobe Acrobat CS6, is learning the process of generation and edition of images and visual information systems to strengthen the transmission of technical data into a graphic.

Information note: We will shortly launch an online edition for Latin America.

A second call for this Course is planned for 25, 27 September + 2 and 4 October 2012.



EXCAVACION JARDINERÍA ALUMBRADO PAVIMENTOS

**CURSO DE DISEÑO DE
SISTEMAS GRÁFICOS
APLICADOS AL PROYECTO Y
EJECUCIÓN DE CARRETERAS**

Organiza:


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