Rapport d'activités des CN 2013

1. Information générale

Pays
ESPÁÑA (Espagne)

Nom du CN
Comité Nacional Español de AIPCR/PIARC

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### E-Mail address of Chairman and secretariat of NC
- info@atc-piarc.com
- info@atc-piarc.com

### Nombre the membres individuels / collectifs
- 78 individual members
- 155 collective members

### Organisation et structure

**Organisation and structure**

The Technical Road Association – (Asociación Técnica de Carreteras – ATC) provides secretariat services to PIARC Spanish National Committee.

ATC has 21 National Committees, 11 active, with approximately 40 members per committee. They must support international members and study interesting themes in Spain.

### 2. Conferences, seminaires, réunions des CT en 2013

2. Conferences, Seminars, TC meetings in 2013
Organisation des CN: nationale/internationale

Organisation by NCs: national/international

Attendance courses

Technical Conference on Improvement of Road Safety for Existing Bridges
21st February 2013, Madrid, Spain

Technical Conference on latest Technologies Applied to Concrete Roads
6th March 2013, Valladolid, Spain

Course on Control Center Operators of Road Tunnels
17th June 2013, Madrid, Spain

Course on Pavements, Materials, Design and Rehabilitation
30th September 2013, Madrid, Spain

Course on Geotechnical Maintenance of Road works
30th September 2013, Madrid, Spain

Technical Conference on Road Maintenance
22nd October 2013, Madrid, Spain

Course on Highway Development and Management (HDM 4) System - version 2
Organized by the Technical Road Association-ATC and the Mexican Institute of Transport
25, 26, 27, 28 and 29 November 2013, Madrid, Spain

Online courses

Online Course on Professional Expert on Pavements of Civil Works
The Spanish National Committee has launched an online edition for South America of the Course on Professional Expert on Pavements of Civil Works – 2013 and 2014

Online Conference on 12 Lessons of Geotechnics and Earthworks - 2013

Online Course on Slope Stability Evaluation by Limit Equilibrium Methods - 2013

Online Course on Geotechnical Maintenance of Road Works – 2013

Online Course on Improvement of Road Safety and Maintenance for Existing Bridges - 2013

Online Course on latest Technologies Applied to Concrete Roads - 2013


Online Course on Graphic Processing of Information in Civil Engineering Projects - 2013

Certification process during 2013

- Inspectors of bridges and viaducts in linear infrastructures
- Control Center Operators of Road Tunnels
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

Meetings of the PIARC International Technical Committees held in Madrid:


2- Technical Committee C 3.3 Road Tunnel Operations - Working Group 4: Fire Safety (FFFS) on 16th and 17th September, 2013

The Spanish National Committees meet 3 or 4 times a year.

3. Publications en 2013

3. Publications in 2013

Publications nationales, rapports

National publications, reports

A book has been published with the title: Improvement of Road Safety for Existing Bridges.

This volume brings together the lectures presented at the Conference on Improvement of Road Safety for Existing Bridges held on 21st February 2013, in Madrid, Spain

Articles dans Routes/Roads

Articles in Routes/Roads
The Spanish National Committee – (Asociación Técnica de Carreteras - Technical Road Association) publishes a quarterly magazine, RUTAS (in Spanish language), which is sent to its members.

A Monographic Issue of RUTAS Magazine has been published in 2013, with the title “The Technical Road Association in the Spanish Road Infrastructures”

The Spanish National Committee has created a new space on its website which offers the possibility of downloading the magazine in digital format. This service is very useful for South – American countries.

**4. Soutien aux premiers délégués**  
**Nomination des membres des CT**

Spain is represented in 18 of the 19 Technical Committees with 36 delegates

**Surveys and questionnaires**

A survey has been distributed to delegates during each event organized by the PIARC Spanish National Committee (Conferences, courses, etc). Until now the Spanish NC activities are obtaining outstanding marks.

**5. Congrès de l’AIPCR**

**Congrès international de la Viabilité hivernale, Andorre 2014 (participation, préparation)**

RUTAS Magazine is following up the organization of this event in order to inform periodically to prospective attendees.

**Congrès mondial de la route, Séoul 2015 (participation, préparation)**

**2014 Winter Road Congress, Andorra (participation, preparation)**

**2015 World Road Congress, Seoul (participation, preparation)**

**6. Autres activités en 2013**

**6. Other activities in 2013**

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<th>Bulletin national ou revue des CN</th>
<th>National newsletter or magazine of NCs</th>
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<td>The PIARC Spanish National Committee organized the Seminar “The Spanish engineering development in the last two decades: an exportable experience” from 22 to 24 May, 2013, in Madrid, coinciding with the XXVII Meeting of Director from Iberia and Latin America Roads (DIRCAIBEA)</td>
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<td>A new section has been introduced in RUTAS Magazine about the PIARC history, objectives, mission and functions. See RUTAS issue nr. 154 and 155 (first and second part, covering the PIARC history up to 1964)</td>
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<th>Autres choses</th>
<th>Other business</th>
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SPAIN

**Attendance courses**

**Technical Conference on Improvement of Road Safety for Existing Bridges**

21st February 2013, Madrid, Spain

This conference was aimed at professionals related with bridges, containment systems, maintenance and management of linear infrastructure. It aimed to share knowledge and point of views among experts manufacturing sector containment elements and design, construction and maintenance of bridges, as well as administrations or concessionaires. Attendees also received a book with the title: Improvement of Road Safety for Existing Bridges.

**Technical Conference on latest Technologies Applied to Concrete Roads**

6th March 2013, Valladolid, Spain

Concrete roads have always been identified with the concept of durability, low maintenance and a longer life. Apart from these features there are other characteristics that worth mentioning: it is a technique linked to sustainability, resulting from the use of local natural resources and its ability to be a recyclable material. Concrete roads helps to achieve a high level of comfort and safety on the road, lower lighting costs or a reduction in CO2 emissions (even capturing and improving the balance of emissions). Its lighter surface reduces the greenhouse effect, contributing to global cooling (Albedo effect). Although the construction costs may result in certain cases slightly higher than those of other solutions, a complete analysis shows that, by their reduced maintenance costs, concrete roads are the best solution in the medium and long term.
Course on Control Center Operators of Road Tunnels
17th June 2013, Madrid, Spain

This course was aimed at staff working in the control room.

Course on Pavements, Materials, Design and Rehabilitation
30th September 2013, Madrid, Spain

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

Course on Geotechnical Maintenance of Road works
30th September 2013, Madrid, Spain

This 50 hours course was aimed at professionals involved in geotechnical aspects, maintenance and repair of road infrastructures: Technical Engineers, Graduates in Geology and Geological Engineering, Civil Engineers, etc.

Technical Conference on Road Maintenance
22nd October 2013, Madrid, Spain

This technical conference was held in Madrid and has been attended by more than 400 professionals interested in Road Maintenance.

Course on Highway Development and Management (HDM 4) System - version 2
Organized by the Technical Road Association-ATC and the Mexican Institute of Transport
25, 26, 27, 28 and 29 November 2013, Madrid, Spain

The Highway Design and Maintenance Standards Model (HDM-III), developed by the World Bank at the beginning of the 80’s, has been used for over two decades to combine technical and economic appraisal of road investment projects, standards and strategies. The Highway Development and Management (HDM 4) system developed in 1994-2000 has extended the scope of the HDM-III model to provide a harmonized systems approach to road management with adaptable and user-friendly software tools.

Online courses

Online Course on Professional Expert on Pavements of Civil Works Road – open during 2013 and 2014

The Spanish National Committee has launched an online edition of the Course on Road Surfaces, Materials, Design and Rehabilitation for South America with great success. With 12 European Credit Transfer System Credits (ECTS credits) duration, students who finished the course, will receive a certificate of achievement awarded by the PIARC Spanish National Committee.
Online Conference on 12 Lessons of Geotechnics and Earthworks - 2013

The content of this Conference covered a broad overview of Geotechnics and Earthworks. It has been hosted by Mr. Carlos Oteo - Chair of the Spanish Road Geotechnical Committee

Online Conference on Slope Stability Evaluation by Limit Equilibrium Methods - 2013

The first part of the course was a theoretical lecture, 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 has been focused on the practical application of GEOSTUDIO™ software package, with the teachers’ support. The last part of the course has been a practical exercise to be resolved by the student in the following weeks and finally evaluated by the teachers. At the beginning of the course, students have been provided with a quick guide for using the GEOSTUDIO™ package.

There were different forums and students had the opportunity to make inquiries directly to the Technical Director.

Online Course on Improvement of Road Safety for Existing Bridges - 2013

This online course was aimed at professionals related with bridges, containment systems, maintenance and management of linear infrastructure.

Online Course on Graphic Processing of Information in Civil Engineering Projects - 2013

Online Course on latest Technologies Applied to Concrete Roads – 2013

Online Course on Highway Capacity Manual 2010 - open during 2013 and 2014

The Highway Capacity Manual 2010 is a complete renovation of the traffic engineering. The HCM2010 has been split into four volumes:

- Volume 1 – Concepts;
- Volume 2 - Uninterrupted Flow;
- Volume 3 - Interrupted Flow; and
- Volume 4 - Applications Guide (a virtual one)

It aimed to give an overview of the changes, stressing the difference between service level and quality of service as well as other important updates. There was a workshop directed by: Manuel Romana (Technical Director of this course)

Certification process during 2013

- Inspectors of bridges and viaducts in linear infrastructures
  This certification is aimed at engineers from companies and Public Administrations with a minimum of 2 years experience as inspectors of viaducts and/or civil engineering structures, dedicated to management, maintenance and operation of road infrastructures.

- Control Center operators of Road Tunnels
  This certification is aimed at staff working in the Road Tunnels Control Room.

For more information, please consult our website: www.atc-piarc.com