



V International Seminar on Bridges Rehabilitation and Sustainable Technology in Bridges PIARC 2018

CAMPECHE, MEXICO, APRIL 19th to 21st 2018



International
Seminar of
Bridges

Rehabilitation and Sustainable Technology in Bridges

SECOND ANNOUNCEMENT

Organized in cooperation by:

World Road Association (PIARC)

Technical Committee D.3 Bridges (PIARC)

Ministry of Communications and Transportation (SCT)

Government of the State of Campeche

Council of Road Directors of Iberia and Ibero-America (DIRCAIBEA)

Mexican Institute of Transportation (IMT)

Mexican Association of Land Roads Engineering (AMIVTAC)

AMIVTAC Bridges Committee





Introduction

PIARC International Seminars Program

The World Road Association (PIARC) is a non-profit or non-profit organization whose mission includes the organization of international forums, the dissemination of best practices and the promotion of efficient tools for decision-making in the field of road and road transport.

As part of its work, since 1999 the Association manages the PIARC International Seminars Program, which aims to strengthen its presence in the world, make it more responsive to the needs of developing countries and countries with economies in transition and achieve a greater dissemination in those countries of the results of the work of the Association.

Technical Committee D.3 of “Bridges” (PIARC)

The PIARC Technical Committee D.3 is responsible for compliance with new codes and standards that require comprehensive inspection and bridge design practices. The Committee will review these practices, review repair and rehabilitation strategies, and consider evaluation models to help determine safety and reliability.

Organization

Technical Committee D.3 of “Bridges” (PIARC) and the Mexican Association of Land Roads Engineering (AMIVTAC) in support of the Ministry of Communications and Transportation (SCT), The Board of Iberia and Iberoamerican Highway Directors (DIRCAIBEA) and the AMIVTAC Bridges Committee have the honor to invite you to participate in the next International Seminar of Bridges.

Topics related to the conservation and rehabilitation of bridges will be discussed by renowned national and international experts, as well as topics related to the use of sustainable technologies in the engineering and construction of bridges





Objectives

The budgetary and environmental constraints for road infrastructure require a more rational use of public and private resources for the maintenance and rehabilitation of existing structures. On the one hand, the use of innovative materials and technologies has made it possible to extend the useful life of many bridges beyond what was originally planned. On the other hand, the improvement in the methods of design and evaluation of the structural safety has allowed to guarantee the operation of these existing ones without detriment in the safety of the users of the same ones. Finally, in recent years new materials and methods have been developed that limit the damage to the environment produced by new constructions.

The V International Seminar on Rehabilitation and Sustainable Technologies in Bridges has a triple objective. On the one hand, to promote the transfer of knowledge and experiences generated in recent years (both nationally and internationally) in relation to the design, construction, conservation and rehabilitation of bridges. On the other hand, to offer a space for discussion for those attending the seminar and for the various national and international experts with special emphasis on new technological developments linked to the conservation of the environment in bridge engineering. Finally, contribute to the improvement of bridge engineering.

Addressed to

The PIARC International Seminar on Rehabilitation and Sustainable Technologies in Bridges is aimed at officials from government agencies or the managers of private operators responsible for the conservation and maintenance of road networks, technical personnel involved in planning, execution and supervision of road works, university professors, researchers and engineering students interested in deepening the subject of road management and specialists in other areas of knowledge involved in the planning of road infrastructure projects.

Methodology

The seminar will be led in such a manner in order to optimize the time available for discussion of the themes, so as to generate dynamic and highly involved discussions among the participants.

Presentations made by participants followed by discussion and collective development of conclusions and recommendations.





Languages

The official language of the seminar is Spanish and English, with translation between both languages.

Places and dates of the seminar

Campeche, México, has been chosen to host the "V International Bridges Seminar on Rehabilitation and Sustainable Technologies in Bridges". It is a suitable place for the celebration of this type of events by virtue of the infrastructure and connectivity available, as well as its great tourist attraction. The seminar will be held on 19th and 21th April 2018.





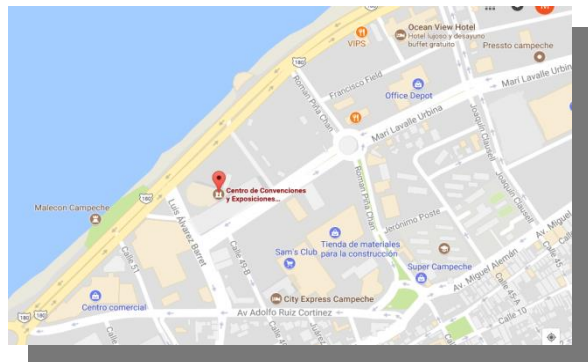
Convention Center Campeche XXI

With a surface area of 20,583.61 m², of which 7,345.91 m² are areas for congresses, conventions and exhibitions and a privileged location, being the only one with a view to the sea, the Convention Center Campeche XXI is the ideal place to hold congresses, seminars, meetings, conventions and exhibitions in a different, quiet and original environment.

The venue, with the new facilities has a capacity of 5,500 people, which adds to the previous capacity of 1,500 people distributed in 19 rooms and parking for 442 cars.

Services:

- ✓ Furniture
- ✓ Computer equipment
- ✓ Audio and Video
- ✓ Telephony and copiers
- ✓ Wireless internet
- ✓ Secretarial Services
- ✓ Support staff
- ✓ Cooking
- ✓ Kitchenette
- ✓ Access to different capacities.





Technical program Thursday, April 19th 2018

Hour	Speaker	Position	Theme	Country
08:00-09:00	Registration			
09:00-09:30	Opening Ceremony			
09:30-10:00	Opening and Tour of the Exhibition			
10:00-10:45	Vincent de Ville de Goyet	Chairman of the Board of Directors of Greisch	Great Bridges	Belgium
10:45-11:15	Michele Mele	Member of PIARC Technical Committee Bridges	Bridge over the Po river, design for environmental sustainability	Italy
11:15-11:45	Pierre GILLES	Member of PIARC Technical Committee Bridges	Soil-Steel structure : inspection and rehabilitation methods	Belgium
11:45-12:00	Break			
12:00-12:45	Gustavo Rocha	Director General Grupo Triada	Foundations on Bridges	Mexico
12:45-13:15	Mohamed PARAK	Member of PIARC Technical Committee Bridges	Environmental Effects on an Integral Bridge in South Africa	South Africa
13:15-13:45	Heungbae GIL	Member of PIARC Technical Committee Bridges	Structural health monitoring	South Korea
13:45-15:00	Mealtime			
15:00-15:45	Jiri Strasky	Fundador y Director Técnico de Strasky, Husty and Partners	Innovative Developments in Bridges	Czech Republic
15:45-16:15	Matías VALENZUELA SAAVEDRA	Member of PIARC Technical Committee Bridges	Seismic experience after 27 F earthquake, design and maintenance	Chile
16:15-16:45	Andrés Antonio TORRES ACOSTA	Member of PIARC Technical Committee Bridges	Design, construction, and supervision of bridges with durability criteria: a new philosophy in Mexico's bridge engineering	Mexico
16:45-17:00	Break			
17:00-17:45	Amador Terán Gilmore	Research Profesor in the Universidad Autónoma Metropolitana	Sustainable Bridge Technologies	Mexico
17:45-18:30	Lucia Fernández Muñoz	Ingeniero de Caminos Carlos Fernández Casado	To define	Spain
18:30-19:15	Welcome cocktail			
19:45-21:30	Discussion Forum			



Friday, April 20th 2018

Hour	Speaker	Position	Theme	Country
09:00-09:30	Scot Becker	Member of PIARC Technical Committee Bridges	Network load posting bridges for specialized hauling vehicles and strengthening options in Wisconsin	USA
09:30-10:00	Borre STENSVOID	Member of PIARC Technical Committee Bridges	Coastal Highway Route E39 in Norway	Norway
10:00-10:45	Clemente Poon Hung	Director General de Carreteras, SCT	Bridges of Mexico	Mexico
10:45-11:00	Break			
11:00-11:30	Aleš ŽNIDARIČ	Member of PIARC Technical Committee Bridges	Monitoring traffic loading for optimized assessment of bridges	Slovenia
11:30-12:00	Nicolas BARDOU	Member of PIARC Technical Committee Bridges	Management of motorway bridges reached by Delayed Ettringite Formation pathology (Internal Sulfate Reaction)	France
12:00-12:45	Patrick Ladret	Director Técnico Freyssinet Puente Canal de Panamá	Construction of the third bridge over Panama Canal	France
12:45-13:30	Ketil Aas Jacobsen	Dr. Ing. At Aas-Jacobsen AS	Chacao Bridge	Norway
13:45-15:00	Mealtime			
15:00-15:30	Atsuhiko Okumura	Long-span bridge engineer center, Honshu-Shikoku Bridge Expressway Co., Ltd.	NDT by inflated thermography	Japan
15:30-16:15	Francois Delarrad	Scientific Director of research and Development Lafarge Holcim	Sustainable Technologies in Concrete	France
16:15-17:00	Álvaro Buenfil	Undersecretary of Infrastructure, Government of Campeche	Construction of the new Bridge "La Unidad", Campeche	Mexico
17:00-18:00	Discussion Forum			
18:00-18:30	Ceremony and closing toast			





Saturday, April 21st 2018

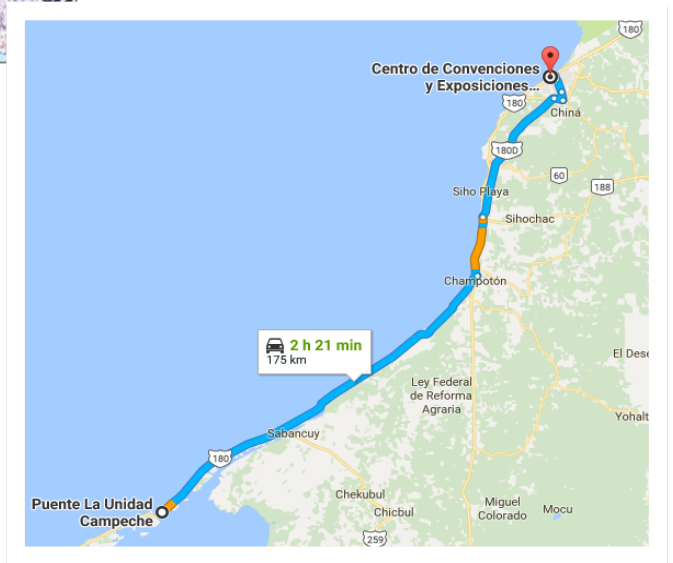
Technical Visit to the Bridge "La Unidad", Campeche.

Technical Visit

As a complement to the technical program, the seminar will include a technical visit to the work of the "La Unidad" bridge in Campeche that will be built with the most modern engineering and materials that are more resistant to wear, which will provide greater safety to the more than 4,200 vehicles that will cross the day.



The approximate time of arrival to the Bridge Unit starting from the Convention Center Campeche XXI by bus is 2h20 min. (Two hours and twenty minutes).



Gobierno de Estado de Campeche



Call for Papers

The organizing committee is now seeking papers addressing the seminar's themes.

1. As a first step, potential speakers should submit an abstract (Maximum 400 words) outlining the subject and the conclusions in official languages. To seminar contact persons listed on page 11.
2. After your abstract is selected, you will be notified by the seminar contact persons on February 20th, 2018.
3. You will be required a presentation for the seminar and to submit a full paper (4 – 10 pages) in Spanish or English.

Guidelines for Abstracts, Full Papers and Presentation

1) Abstract

Abstracts should be submitted according to the following requirements:

- Maximum 400 words
- Submitted in Spanish or English
- In electronic format
- Deadline for submission of Abstract: January 31st, 2018.

2) Full papers

Full papers should be prepared and submitted by the authors according to the following requirements:

- The length of the printed papers should be between 4 pages and 10 pages (A4: 8,27"x11,69", 210mm x 297mm).
- Full papers must be written in Spanish or English.
- Full papers containing illustrations in black and white are preferable.
- Deadline for submission of Full Paper: February 28th, 2018.





3) Presentation

Presentation should be prepared by the authors according to the following requirements:

- Presentation material should be prepared in “Power Point Presentation”.
- Presentation material must be written in Spanish or English.

Abstracts and full papers should be submitted to the Seminar Contact persons listed at the page 10 of this announcement.

Registration Fee

- | | |
|--|--------------|
| - Until March 15 | USD \$300.00 |
| - After March 16 to the event | USD \$350.00 |
| - Students and professors of civil engineering | USD \$150.00 |
| - Technical Visit | USD \$25.00 |

PIARC Special Fund

The PIARC Special Fund can cover up to 100% of travel expenses or up to 100% of accommodation expenses of participants from developing countries (lower middle income and low-income countries). It can cover the expenses of one participant per PIARC member country, subject to the agreement of the First Delegate. Request for Special Fund should be made by the First Delegate to PIARC Secretary General, e-mail: info@piarc.org

The rules relating to the use of the Special Found are available on the PIARC web site: www.piarc.org, in section 12 of the blue guide.





Accommodation

Location

The Gamma Hotel Campeche is strategically located on the city's Seafrent Boulevard, only five minutes from the Historical Center, restaurants & shops, fifteen minutes from the airport, **two minutes from the Convention Center**, and a short fifteen-minute drive from the airport.

Street Address: Campeche, Campeche, Mexico. Av. Ruiz Cortines No. 51, Col. Centro 24000

Reservations

To accommodate participants in the seminar, it has made a reservation group, with reference **SEMINARIO INTERNACIONAL DE PUENTES**, using the code **G19PWR@GCA** (breakfast included). Those interested in staying at the host hotel must book the hotel directly, using the above reference and any of the following means:

- Reservations:

http://www.fiestamericana.com/es/grupos_reservacion

Please select: GAMMA CAMPECHE MALECON

- Phone: 52 (981) 811 91 91 or Call Center 01 800 504 5000



Pets are not allowed



Guests access with guide dogs



Bar(s)



Free Wi-Fi access



Outdoor parking



24 hours room service



Restaurant(s)



Gym



Outdoor pool



Laundry service



24hrs available (Spanish-English)

Single room.....	\$1497 MXN
Double room.....	\$1720 MXN
Triple room.....	\$2238 MXN
Junior Suite, single.....	\$1839 MXN
Junior Suite double.....	\$2062 MXN
Master Suite single.....	\$2193 MXN
Master Suite double.....	\$2416 MXN
Master Suite Deluxe single.....	\$3751 MXN
Master Suite Deluxe double.....	\$3974 MXN





Other hotels close to the Seminar:



Holiday Inn Campeche Av.
Resurgimiento #127 Col. del Prado,
Campeche, Cam. C.P. 24040

Tel. 52 981 1273700

www.ihg.com/holidayinn/hotels/us/es/campeche/cpemx/hoteldetail

Av. Pedro Sainz de Baranda C.P. 24010
Malecón de la Ciudad de San Francisco
de Campeche, Campeche.

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Web Page

www.amivtac.org/vsip

General Information on Mexico

Official coin



The official currency of Mexico is the Mexican peso (sign: \$, code: MXN), which has an approximate exchange rate of MXN \$ 18.00 per US dollar or MXN \$ 20.00 per Euro. In Campeche and the rest of the country, peso is the currency of common use, however, US dollars are also accepted in many commercial establishments, although with exchange rates usually more unfavorable than bank rates.

Credit cards

Most commercial establishments throughout Mexico accept international credit cards, mainly: Visa, MasterCard and American Express.

Tips

The average restaurant service tip is 10-15% and one to two US dollars per loaded suitcase. Check your bill before you tip, as it may already be included.

Time zone

Mexico has three-time zones: GMT-6 in the southeast and central, GMT-7 in the states of Baja California Sur, Nayarit, Sonora and Sinaloa and GMT-8 in Baja California Norte. The exact time in Campeche is GMT-6. This time the exact time in Campeche is GMT -6.





Arrivals to the City of Campeche

The City of Campeche has the International Airport "Ing. Alberto Acuña Ongay" that has a great connectivity supported by several international airlines, among which are:



Nearby Airports

You can arrive to the City of Campeche by land means reaching the nearby airports, which have several international flights and land lines to move to the City of Campeche:

Ciudad del Carmen International Airport, Campeche; 2 hours and a half from the Historic Center of the city of Campeche.

"Manuel Crescencio Rejón" International Airport in the city of Mérida, Yucatán; 1 hour and a half from the Historic Center of Campeche.

"Benito Juárez" International Airport, in the city of Cancún, Quintana Roo; 4 hours and a half from the Historic Center of Campeche.

* Upon arrival at these airports there is the option of renting cars ranging from \$ 450 pesos per day or the option of tour operator agencies that can schedule interesting circuits that includes the city of Campeche.





Campeche



Campeche is, without a doubt, one of the most beautiful capitals in the country. UNESCO named it as a model of a colonial baroque city planning. Additionally, it was declared a World Heritage Site. It has 17 archaeological sites including Calakmul, the largest Mayan city that has ever been discovered. If you're looking to escape from the tourist crowd, its Pacific beaches are for you. Campeche has charming corners that you'll love including the beautiful colonial port, various Mayan ceremonial centers and majestic nature reserves.

When you visit Campeche you have to take a stroll along the Fort of San Miguel, San José el Alto, and the Door of the Earth; their buildings will carry you and will tell the story of this beautiful city.





Tours

Hampolol

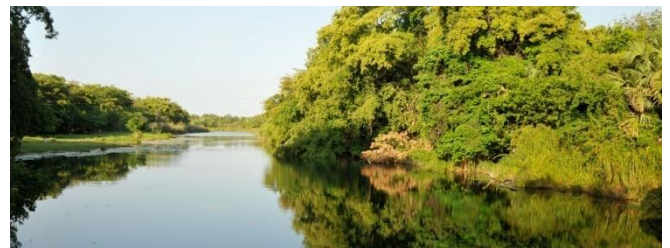
In an area of 100 hectares, Hampolol meets the necessary characteristics to protect and host low and medium forest.

There are swampy areas where several species of reptiles, amphibians, ornate and singing birds live, along with small and big mammals, which make of this area an important ecologic spot for the State, especially due to the water stream and river communicating the sea.

The place is fed by three water bodies: two water ponds formed by natural water springs emerging from the limestone, and a stream called Rio Verde, which runs from north to south and branches to the left and then opening to the sea while forming two salt water swamps. The access to those is difficult but they are in a great state of preservation. The other side is a stream is originated from one spring called Holl Ek by the inhabitants, which means black star in Mayan language.

This is a very important reserve, since it is shelter for a wide variety of species living in the diverse ecosystems of the zone.

The place is excellent for watching animals in their natural habitat such as cormorants, small eagles and other colorful birds. There's also a large number of reptiles and fishes. The variety of mammals is large, although spotting them is restricted to specific hours during the day





Edzná

Edzná is one of the most beautiful ancient Mayan cities in the region. An important regional capital whose wealth of buildings and styles give a precise idea of the enormous political, economic and religious power that the site enjoyed between 600 and 1200 AD.

Upon entering this city from the Nochoch Na, you will enjoy a view of the complex, and of the most important monumental structures. From here it is easy to imagine how Edzná would have been at its peak, full of color, crowds and movement.

Its imposing Five-storey Pyramid Temple on the Great Acropolis rises 39 meters over the expansive Edzná Valley, one of the most fertile flood regions in the state that led the builders of this city to design an extensive system of channels to store and distribute the water from the rains for reuse during the dry season.

Its huge squares, temples and spaces bathed by the sun make Edzná a magical and impressive place.





Museums

Mayan Architecture Museum: The Bastion of Our Lady of Soledad currently functions as a Mayan Architecture Museum and exhibits an important collection of sculpted stelae and architectural fragments from numerous Mayan cities.

Museum of Ships and Weapons: The old rooms occupied by soldiers and watchmen of the Fort of San José, today they house an interesting historical sample of reproductions of ships and arms of the colonial time distributed in five rooms; not to mention the impressive views of the sea of Campeche and the Reserve of Los Petenes from its upper esplanade. Sometimes it serves as a spectacular setting for some temporary exhibitions of great importance.





“Los Petenes” Biosphere Reserve

The Biosphere Reserve of Los Petenes forms a corridor of coastal wetlands of almost 300,000 hectares that draws a lush verdant tapestry of islands and islets where the mangrove reigns. Red, white and black mangroves create an ecosystem unique in Mexico, of great ecological value for its diversity of flora and fauna. The soil properties also allow for the formation of cenotes and springs.

Here there grow trees such as the chechen, mahogany, fig, palm, chit and at least 400 more plant species, many of them endemic, while others at risk of extinction and protected.

Its fauna is as rich as the flora, we can find among other specimens the pink flamingo, the pelican, the river crocodile, the caiman, the heron, the white ibis, the white-winged duck, the Yucatecan parrot, the wood stork, hawks, the howler monkey, the anteater, the four-eyed opossum and the manatee.





Forts of Campeche

If you love the history of this land, a visit to San Francisco de Campeche is mandatory. The colorful streets are merged with baroque temples and sober bastions in one of the best fortified cities of America; It was declared Cultural Heritage of Humanity by UNESCO because of its excellent preservation.

Campeche was a walled city. Large and modest bastions were built to stop the constant attacks of pirates who ventured this land during the sixteenth and seventeenth centuries. Do not miss the visit to Fortaleza San Miguel, Cultural Center Casa 6, the Gate of the Earth or the Sea, where you can start an interesting tour at the top of the wall to the Baluarte de San Juan, which offers magnificent views of the city and is well arranged Streets.





Rehabilitation and Sustainable Technology in Bridges

REGISTRATION FORM

Personal Information

Name (s):

Last name:

Organization:

Address:

City:

State/Province:

Country:

Postal Code:

RFC (in case of requiring invoice):

Phone:

e-mail:

Registration fee

- Registration on march 15th
USD \$300.00
- Registration to March 16th to the event
USD \$350.00
- Students and teachers of civil engineering
USD \$150.00
- Technical Visit
USD \$25.00

Membership number AIPCR-PIARC:

Payment method:

Bank deposit

Wire transfer

Payment on site

Data for deposit or bank transfer

Payment of the registration can be made by deposit or bank transfer.
BENEFICIARY: ASOCIACIÓN MEXICANA DE INGENIERÍA DE VÍAS TERRESTRES, A.C.

BANK: BANORTE
ACCOUNT: 0336405287
CLABE: 072 180 00336405287 2
BANK BRANCH : 0114 PERIFERICO SUR
SQUARE: 9244 PLAZA DISTRITO FEDERAL

Once completed, send this form to amivtac@prodigy.net.mx, attaching proof of payment.

* It is recommended to register on the seminar's website:

<http://amivtac.org/vsip/registro.html>