

PATHS TO BRING THE WORLD TOGETHER

Serving society, engineers meet in Madrid

**on February 29
and 1, March**

**Annual Assembly
of the Council
of Professional
Associations of
Civil Engineering
Spanish Speech
Portuguese**

2 and 3 March 2016

**VII Congress
V Iberoamerican
Congress
1st International
Congress**

**of Civil
Engineering**

4 and March 5th

**Assembly
of the European
Council of
Civil Engineers**

From February 29 to March 5



**Colegio de
Ingenieros de Caminos,
Canales y Puertos**



**FUNDACIÓN
CAMINOS**

ENGINEERING AND CONSTRUCTION AT THE CITIZENS' SERVICE

Major civil engineering projects contribute worldwide to the welfare of citizens, offering innovative solutions to the current challenges of water access, sanitation, transport or energy and other services adapted to the growing needs of the health and education sectors.

We live and act in a globalized world, in which continuous or disruptive influences and unforeseen risks hinder the true capabilities of national, regional and local authorities, which often brings us into far more complex scenarios. Land use assignment decisions must take into account these factors and provide several agile mechanisms of democratic participation which must be compatible with the technical options available.

The economy is affected by its globality, showing clearly the relationships between its drivers and consequences, needing a new revamping approach and new paradigms to successfully address the future.

The improvement and upgrading of infrastructure has been key to enhance the competitiveness of national economies and is a key element to improve social welfare contributing to better life quality among our citizens.

On these grounds, a modern society would only be, in the future, if it has solved all its problems, not of achieving fast, convenient, efficient and competitive only transport, but especially if it ensures an inclusive water access quality for all citizens and industry, concurrent with a healthy environment.

Spanish civil engineers lead large projects on all five continents working for several

international firms, which in many cases are Spanish contributing highly to the prestige of Spain's brand in the world. Several highly specialized teams work successfully around the world; from the jungles of Peru through the Middle Eastern deserts to the Caucasus mountains, from the Panama Canal to the New York underground. Spanish civil engineering is in, and is listed on the rise in the market for major engineering projects designed to improve communications on the planet and the living conditions of the citizens of this new world which holds preserving the environment as its most precious asset.

Investments should be made in priority infrastructures, according to criteria of territorial equity, effectiveness and efficiency in planning and management rigour. Such may only be achieved by responding citizens' specific needs and real demands. Such investments should be tendered by procurement models based on quality and not solely on price. Therefore, it is necessary to sort out the citizens' understandable ambitions in health, education and social services, all increasing demands of a society that desires to see his ideals of justice fulfilled.

The National Congress of Civil Engineering in Madrid concurrent with the International Congress and the General meetings of both Latin American and European civil engineering organizations is the perfect opportunity to bring to the world the message that highlight "Paths to bring the world together".

HONOUR COMMITTEE

Su Majestad el Rey, Felipe VI

Mariano Rajoy Brey, presidente del Gobierno de España

Patxi López Álvarez, presidente de las Cortes y del Congreso de los Diputados

Pío García-Escudero Márquez, presidente del Senado

José Manuel García-Margallo, ministro de Asuntos Exteriores

Ana Pastor Julián, ministra de Fomento

Luis de Guindos Jurado, ministro de Economía

Isabel García Tejerina, ministra de Medio Ambiente

José Manuel Soria López, ministro de Industria, Energía y Turismo

Cristina Cifuentes Cuencas, presidenta de la Comunidad de Madrid

Manuela Carmena Castrillo, alcaldesa de Madrid

Julio Gómez-Pomar Rodríguez, secretario de Estado de Infraestructuras

Jesús Manuel Gracia Aldaz, secretario de Estado de Cooperación

Rebeca Grynspan Mayufis, secretaria General Iberoamericana

Juan A. Santamera Sánchez, presidente del Colegio de Ingenieros de Caminos, Canales y Puertos

Vicent Esteban Chapapría, presidente de la Asociación de Ingenieros de Caminos, Canales y Puertos

Alfonso Alberto González Fernández, presidente del Consejo Mundial de Ingenieros Civiles

Xosé Pereira Vieira, presidente de la Federación Europea de Asociaciones Nacionales de Ingeniería

Wlodymierz Szymczak, presidente del Consejo Europeo de Ingenieros Civiles

Carlos Matías Ramos, presidente del Consejo de Asoc. Profesionales de Ing. Civil de Habla Portuguesa y Castellana y Bastonario Ordem dos Engenheiros de Portugal

Abel Caballero Álvarez, presidente de la Federación Española de Municipios y Provincias (FEMP)

Iñigo J. de la Serna Hernáiz, alcalde de Santander

Manuel Moreu Munaiz, presidente del Instituto de la Ingeniería de España

Pablo Bueno Tomás, presidente de FIDIC

Julián Núñez Sánchez, presidente de SEOPAN

Jaime Lamo de Espinosa, presidente de ANCI

Juan Ignacio Lema Devesa, presidente de TECNIBERIA

Juan Diego Ibáñez López, presidente de FIDEX

Juan Francisco Lazcano Acedo, presidente de la Asociación Española de la Carretera

Francisco Javier Garzón Morales, consejero delegado del ICEX

Carlos Conde Lázaro, rector de la UPM

Carlos del Álamo, presidente de UPCI

José Tadeu da Silva, presidente del Conselho Federal de Engenharia e Agronomia Brasil (CONFEA) y presidente de la Unión Panamericana de Ingenieros

Diana M^a Espinosa Bula, presidenta Sociedad Colombiana de Ingenieros (SCI)

José Domingos António Dias, bastonario Ordem dos Engenheiros de Angola (OEA)

Rubén Espinosa Mejía, presidente de FECIC (México)

Cristian Hermansen, presidente nacional del Colegio de Ingenieros de Chile

Mercedes Iraidy Elesther Savigne, UNAICC Cuba

TECHNICAL COMMITTEE

Juan A. Santamera Sánchez, CICCOP

José Manuel Loureda Mantiñán, CICCOP

Tomás Sancho Marco, CICCOP. WCCE

José Javier Díez Roncero, CICCOP

María Moreno López de Ayala, SEOPAN

Ángel J.M. Zarabozo Galán, TECNIBERIA

José Polimón López, SPANCOLD

Manuel Arnáiz Ronda, AETOS

Luis Berga Casafont, ICOLD

Roque Gistau Gistau, AICCP

Pedro Domingo Zaragoza, TYPESA

Fernando Argüello Álvarez, FIDEX

Ignacio González Castela -Peñuela, AICCP

Fernando Almeida Santos, OE - Portugal

Victor Coutinho, OECV - Cabo Verde

Aniceto Zaragoza Ramírez, OFICEMEN

José Francisco Sáez Rubio, CICCOP

Antonio Papell Cervera, CICCOP

Rafael Serrano Deza, CICCOP

Lorenzo Martínez Lavado, CICCOP

Francisco Martín Carrasco, UPM

Xosé Manuel Pereira Vieira, FEANI

Carlos Arce Díez, UBU

Carmen María Sandoval Sánchez, CE

Vicente Esteban Chapapría, UPV

Kyra Bueno Risco, UNAICC - Cuba

Pablo Bueno Tomás, FIDIC

Juan Ernesto Pérez Moreno, CICCOP

Fernando García Valero, AYESA

César A. Lanza Suárez, Tecnova

Ignacio Duque Oliart, ERP - UE

Carlos Manuel Escartín Hernández

Lamberto Ballí, TBPE - EE. UU.

Cristina Vázquez Herrero, UdC

Emilio Colón, CIAPR - Puerto Rico

Julio Senador-Gómez y Óderiz

Claudio Olalla Marañón, UPM

Víctor Gómez Frías, ENPC

SERVICE COMPANY, ENGINEERS MEET IN MADRID

BACKGROUND

On the occasion of the celebration of the meeting of the Assembly of the Council of Professional Associations of Civil Engineering of Portuguese and Spanish-speaking on the one hand, and the 63rd General Assembly of the European Council of Engineers on the other, both hosted by Colegio de Ingenieros de Caminos, Canales y Puertos, Colegio has decided to host the VII Spanish National Congress of Civil Engineering / V Ibero American Congress of Civil Engineering between both Assemblies on the 2nd and 3rd of March 2016.

This Congress will serve as tribute to our demised colleague, José Medem Sanjuan, who always committed himself to the progress of engineering and vindicated the role of Spanish engineering. His character has been broadly recognized among all the engineering organizations in which he has contributed and presided.

ORGANIZERS

- Colegio de Ingenieros de Caminos, Canales y Puertos – CICCOP
- Asociación de Ingenieros de Caminos, Canales y Puertos – AICCP
- Council of Professional Associations of Civil Engineering from Portuguese and Spanish Speaking Countries – CICPC
- World Council of Civil Engineers – WCCE

OBJECTIVES

The objectives of the Congress, among others, are:

- Positioning of Spain and its professional and business sector as a sound contributor to solving technical challenges worldwide.
- Positioning of the host organizations in the international context.
- Positioning of the professional associations of civil engineering against the government of individual countries.
- Strengthening of a Global transregional Alliances contexts sectoral and representation of the different branches of engineering worldwide stakeholders.
- Fostering stakeholder partnerships between Professional associations, business, multilateral agencies and national government

Thematic sessions are focused on various cross-cutting aspects of professional practice in civil engineering including

- Investment Plans and Infrastructure Maintenance
- Sustainable Development and Climate Change
- Education and Training
- International Procurement Models
- Investment Assessment and Funding
- Ethics and Cooperation
- Professional Mobility

PROGRAMME

2 MARCH 2016

INVESTMENT, CONTRACTING & MOBILITY

08:30 h - Registration

09:00 h - **Opening ceremony**

- Ministro/a de Fomento
- Juan A. Santamera, presidente del Colegio
- Vicente Esteban Chapapría, presidente de la Asociación de ICCP

Tribute to José Medem

- Emilio Colon
- Alfonso González, WCCE

09:30 h - **I. INVESTMENT PLANS AND MAINTENANCE OF INFRASTRUCTURE**

- Theme Rapporteur: Julián Núñez, presidente de Seopan
- Panel overview: Violeta Bulc, comisaria de Transportes de la UE (pendiente)
- Selected communications
- Round table discussion

- Aurelio Menéndez, gerente de Infraestructuras del sector transportes. Banco Mundial
- Alejandro Álvarez von Gustedt, representante Oficina de Europa. Oficina de Alianzas Estratégicas BID
- Román Escolano, vicepresidente del Banco Europeo de Inversiones (pendiente)
- José M^o Piñero, director general de Fondos Comunitarios
- Enrique García Rodríguez, presidente ejecutivo de la Corporación Andina de Fomento (pendiente)
- Eugenio Prieto, presidente de A.T. Kearney

11:30 h - Coffee break

12:00 h - **II. NATIONAL & INTERNATIONAL PROCUREMENT MODELS**

- Theme Rapporteur: Pablo Bueno Tomás, presidente de Fidic
- Panel overview: Jan Van der Putten, secretario general de EFCA
- Selected communications

- Round table discussion

- Reyes Juárez Del A., presidente de FEPAC (Federación Panamericana de Consultores)
- Representante de CICA (Confederation of International Contractors' Associations)
- José Luis Alfaro, Banco Europeo de Inversiones (BEI) (pendiente)
- Fidel Sáenz de Ormijana, director técnico de Ferrovial
- Mark W. Woodson, ASCE President (pendiente)

14:00 h - Lunch

16:00 h - **III. PROFESSIONAL MOBILITY & RECOGNITION**

- Theme Rapporteur: Consejo Mundial de Ingenieros Civiles. Alfonso González, presidente del WCCE
- Panel overview: Emilio Colon, *past president* del WCCE
- Selected communications
- Round table discussion
 - Cristina Machado, presidenta do Colégio Nacional de Engenharia Civil da Ordem dos Engenheiros de Portugal
 - José Tadeu Da Silva, Conselho Federal de Engenharia e Agronomia – CONFEA (Brasil)
 - Sergio Contreras, vicepresidente del Colegio de Ingenieros de Chile
 - Margarita de Lezcano-Mújica Núñez, Subd.Gral. de Títulos y Reconocimiento de Cualificaciones. M^o Educación
 - Diana María Espinosa Bula, presidenta Sociedad Colombiana de Ingenieros
 - Lamberto Ballí (TBPE- EEUU), presidente de la American Public Works Association - Texas Chapter

18:00 h - Coffee break

18:30 h - **Plenary session**: "Ingeniería, ética y objetivos de desarrollo sostenible".

- Blanca Jiménez Cisneros, directora de División de la UNESCO.

19:00 h - End of session

20:00 h - **Formal dinner**

- Acueducto de Segovia Award Honour Ceremony

PROGRAMME

3 MARCH 2016

CLIMATE, FINANCING & EDUCATION

09:00 h - **Opening ceremony**

- Ministro/a de Medio Ambiente
- Juan A. Santamera, presidente del Colegio

09:00 h - **IV. SUSTAINABLE DEVELOPMENT, INVESTMENT AND CLIMATE CHANGE**

- Theme Rapporteur: José Polimón López, presidente de Spancold
- Panel overview: Javier Manzanares, Fondo Verde del Clima (pendiente)
- Selected communications
- Round table discussion

- Felipe de la Morena Casado, embajador en Misión Especial para Asuntos Internacionales de Medio Ambiente (pendiente)
- Valvanera Ulargui Aparicio, directora general de la Oficina Española de Cambio Climático
- Arcadio Gutiérrez Zapico, director general del Club Español de la Energía
- Íñigo J. Losada. Instituto de Hidráulica Ambiental de Cantabria

11:00 h - Coffee break

11:30 h - **V. FINANCING, EVALUATION & INVESTMENT PRIORITY**

- Theme Rapporteur: Juan Ernesto Pérez Moreno, presidente de la Comisión de Infraestructuras del CICCOP
- Panel overview: Armando Ortuño, Comité de Infraestructuras CICCOP
- Selected communications
- Round table discussion

- Bernardo Urrutia, Mobility and Transport (Unit B4- Connecting Europe - Infrastructure Investment Strategies) (pendiente)
- Ginés de Rus Mendoza, catedrático de Economía Aplicada. Universidad de las Palmas de Gran Canaria, Universidad Carlos III, coordinador del Area de Infraestructuras y Transporte de FEDEA
- Andreu Ullied (ICCP), socio de MCRIT - director

- David Sartori, director de la Guía de Análisis Coste-Beneficio de Proyectos de Inversión (CSIL)

14:00 h - Lunch

16:00 h - **VI. TRAINING**

- Theme Rapporteur: Víctor Gómez Frías, profesor titular de l'Ecole nationale des Ponts et Chaussées
- Panel overview: Vicent Spenlehauer, director del Centro de Formación para la acción pública de l'Ecole nationale des Ponts et Chaussées

- Selected communications
- Round table discussion

- Francisco Martín Carrasco, director de la Escuela de Ingenieros de Caminos, Canales y Puertos de Madrid

- Jorge Abramian, presidente Consejo Profesional de Ingeniería Civil -Argentina

- Carmen Sicilia Fernández-Shaw, jefe Departamento Formación Permanente UNED

- José Vieira, presidente de FEANI (pendiente)

18:00 h - Coffee break

18:30 h - **Plenary session**: "Objetivos de desarrollo".

- Ángel Gurría, secretario general de la OCDE (pendiente)

19:00 h - **CLOSING SESSION**

- Conclusions
- José Polimón, presidente de Spancold
- José Javier Díez Roncero, secretario general del CICCOP
- Leopoldo Calvo Sotelo's Public Leadership Award Honour ceremony

20:00 h - **Closing cocktail party**

INFORMATION

PAPER SUBMISSIONS

Submissions presented may address any of the topics or subtopics presented in the Congress. It may develop general aspects of conceptual analysis of situations or future proposals regarding the objectives.

The communications must be original and must not have been published or presented at any other conferences, journals, etc. Joint papers should not be submitted by more than **THREE AUTHORS**. All documents submissions to the Congress will remain property of the author/s.

Submissions received, reviewed and accepted, will be published in the Conference Proceedings that will be issued to the Congress attendees along with the rest of the congress documentation. For its publication, it is imperative that at least one of the authors has registered its submission before

February 15, 2016

PAPERS

All arrangements regarding paper submissions should be communicated through the Congress website

www.ciccp.es

The website hold the submission form of proposals which requires the submission of a 200-word maximum paper abstract, indicating the thematic session applicable according to the author. Submission guidelines are available in the above mentioned website.

ABSTRACT SUBMISSION

Deadline for abstract submission

January 10, 2016

After reviewing the proposals of communications by the Technical Committee, the Congress Secretariat will notify the submission acceptance before:

January 15, 2016

PAPER SUBMISSION

Deadline for paper submission:

10 February 2016

Once reviewed by the Technical Committee, the Congress Secretariat will notify the paper's final acceptance before:

February 15, 2016

During the Technical Sessions, rapporteurs will summarize the papers received offering the possibility to present them in depth those selected by the Technical Committee. (Authors' presentation may be supported by a PowerPoint presentation format). The Congress Secretariat will contact such selected authors from 15 February 2016 onwards.

INFORMATION

LANGUAGE

The official language of the Congress will be Spanish

VENUE

The Congress will be held on the premises of the Colegio de Ingenieros de Caminos, Canales y Puertos

C/ Almagro 42 - 28010 Madrid

To access all Congress activities: Meeting room, lunch and coffee breaks and cocktail-dinner any attendees are to be properly accredited by the lanyards issued by the Congress Secretariat .

SECRETARIAT

Colegio de Ingenieros de Caminos, Canales y Puertos

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Email: jornadas@ciccp.es www.ciccp.es

CONGRESS FEES - VII CONGRESO DE INGENIERÍA CIVIL

| | Until February 1 | As of February 1 |
|---|---------------------|---------------------|
| Congress Attendee | 200 € | 250 € |
| Authors | € 150 | 150€ |
| Accompanying persons (only cocktail dinner) | € 75 | 75€ |

The congress attendee, author and scholar registration fees include conference documentation, Certificate of Attendance, Access to the site of the use sessions, free wi-fi, lunches and coffees

breaks for the two Congress days and March 2nd Cocktail-Dinner.

Accompanying persons fee includes only March 2nd Cocktail-Dinner.

Registration cancellation is subject to the following cancellation charges

- Before February 1, 2016 (inclusive), 10% of registration fee
- As of February 2, 2016, 100% of registration fee

All fees except the accompanying person's' fee, which includes a 21% VAT tax, are VAT tax free under Article 20 of Act 37/1992 December.



**Colegio de
Ingenieros de Caminos,
Canales y Puertos**



**FUNDACIÓN
CAMINOS**

CAMINOS QUE UNEN EL MUNDO



**Consejo de Asociaciones
Profesionales de Ingeniería Civil
de Habla Española y Portuguesa**



**Asociación de
Ingenieros de Caminos
Canales y Puertos**



**European Council
of
Civil Engineers**