European Council
of
Civil Engineers

2018

European Year of Civil Engineers

by Wlodzimierz Szymczak, ECCE Immediate Past President

&

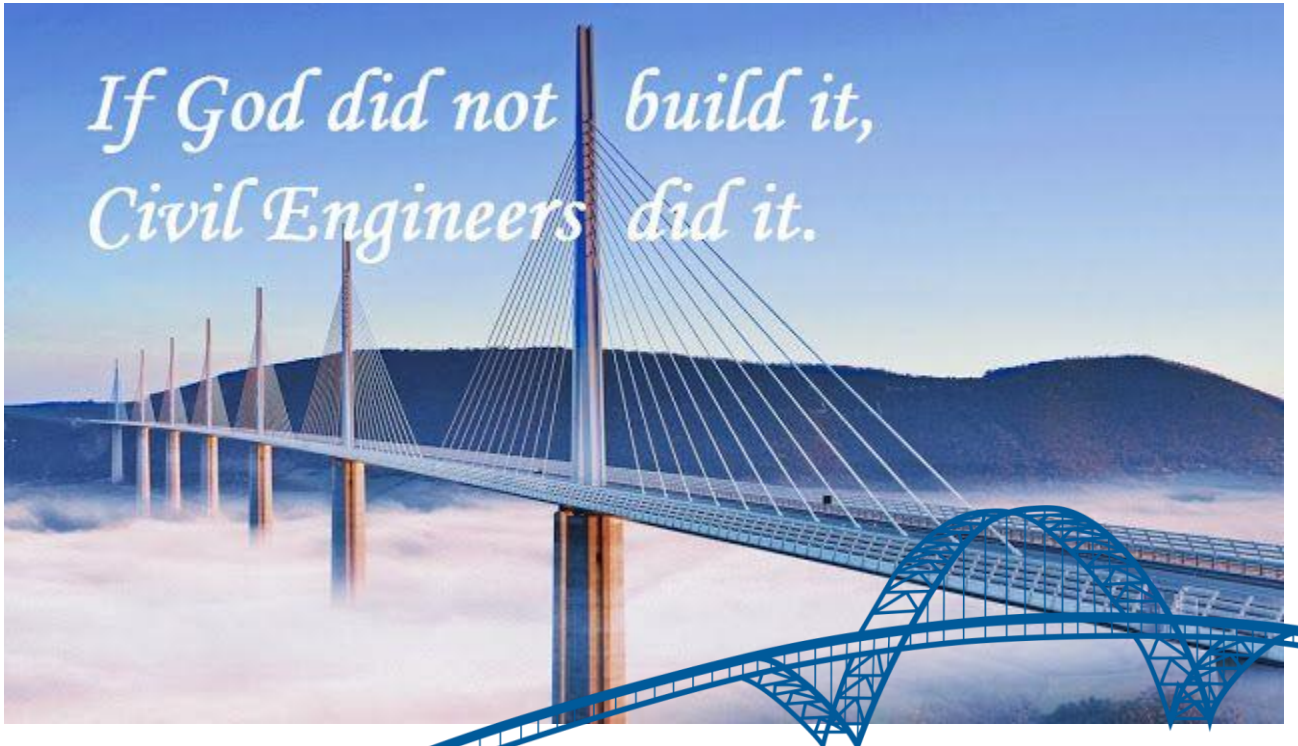
Maria Karanasiou, ECCE General Secretary

Podgorica, 31 May 2019

European Council of Civil Engineers

2018 the European Year of Civil Engineers

The European Council of Civil Engineers (ECCE) decided to proclaim year 2018 as the **European Year of Civil Engineers (2018 EYCE)**. The main goals of this proclamation have been to reinforce the fundamental role of civil engineers in society in improving the standard of human life, to make the case for the prestige of the civil engineering profession in the social community of European countries and to stress the pivotal role that civil engineers will play in addressing the challenges that will face society in the future.



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Background Information

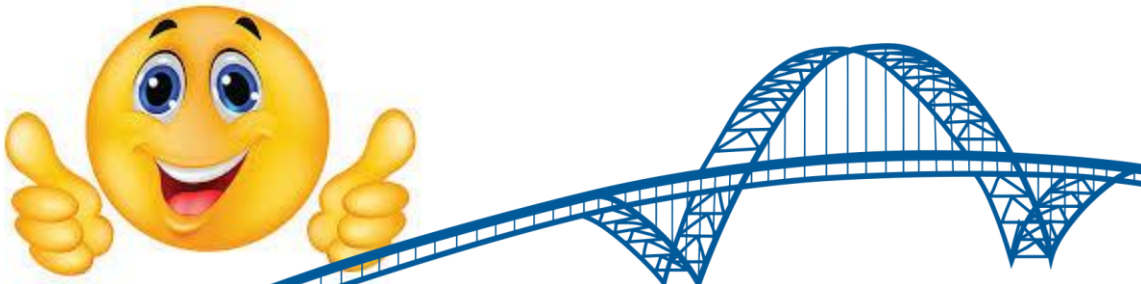
ECCE 2018 EUROPEAN YEAR OF CIVIL ENGINEERS

2014:
Conception of the idea by President of the Polish Chamber of Civil Engineers, Andrzej Dobrucki during our 60th ECCE General Meeting in Warsaw.

2016:
63rd ECCE General Meeting in Madrid. Zygmunt Meyer presents the idea of organizing the European Year of Civil Engineers in 2017 starting from Warsaw. Idea was ratified by the General Assembly.
64th ECCE General Meeting in Athens. Proposal by ICE to designate the year 2018 as the European Year of Civil Engineers in combination with the 200th Anniversary of ICE. ECCE agrees with the proposal.

2017:
65th ECCE General Meeting in Antalya. Commencement of organization of the 2018 EYCE

2018:
The EYCE was realized!



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What we wanted to achieve

EC CE 2018 EUROPEAN YEAR OF CIVIL ENGINEERS

- Pay **social attention** to the fundamental **role of civil engineers** in the progress of the standards of the human life.
- Showcase **what civil engineers are and do** to the European citizens.
- **Raise the prestige of civil engineers** in the European society.
- **Raise the visibility** of the civil engineering profession across Europe.

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How we achieved it

EC CE 2018 EUROPEAN YEAR OF CIVIL ENGINEERS

- Proclamation of the 2018 EYCE has been widely disseminated.
- Special logo was used throughout 2018.
- Standard presentation about the civil engineering delivered during all events of 2018 EYCE.
- Organization of series of events related to the civil engineering profession across Europe by our members in their countries.
- Marketing of the idea through press, media, website, e-journal, etc.
- Communication of our initiative to the European authorities.

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Formation of Working Group

EC CE 2018 EUROPEAN YEAR OF CIVIL ENGINEERS

A special Working Group was formed in July 2017 consisting of the following:

- Wlodzimerz Szymczak (leader)
- Paul Coughlan (U.K.)
- Platonas Stylianou (Cyprus)
- Wojciech Radomski (Poland)
- Maria Karanasiou (Gen. Sec.)

The tasks of the Working Group were:

- Preparation of the EYCE Proclamation
- Preparation of the EYCE logo
- Preparation of the EYCE standard presentation

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EYCE Proclamation

EC CE 2018 EUROPEAN YEAR OF CIVIL ENGINEERS

PROCLAMATION

Dear Community of Civil Engineers, Dear Colleagues,

Civil engineering belongs to the oldest domains of human activity – its history is as long as the history of civilization. The social role of civil engineering in the development of mankind has always been of fundamental importance because the standard of human life has been so highly dependent on its progress. This can be observed from the beginning of human history up to the present day. Civil engineering deals with all aspects of the built environment (either physical or natural) and can be dated to the first time someone placed a roof over his or her head or laid a tree trunk across a river to make it easier to get across. And we can be confident that the role of civil engineering will continue to grow into the future.

Civil engineering as a domain of technological activity is a key element of the national and international economy. Economic progress is impossible without adequately developed social and physical infrastructure, including, for example, buildings, water distribution networks, and service and transport infrastructure networks.

Contemporary achievements of civil engineering, thanks to the progress of building knowledge and science, are spectacular. This is exemplified by numerous tall buildings, dams, large bridge structures, water infrastructure, motorways, sport stadiums and halls, theater houses, etc., constructed in the last decades and strongly influencing urban and extra-urban areas and landscapes. On the other hand, we should also note less spectacular but equally important achievements for social and economic reasons, such as residential buildings, smaller bridges, roads, industrial buildings, etc. The first field can be considered as extraordinary examples of civil engineering, illustrating its especially high level of achievement, while the second one can be considered as 'the work of the day' of civil engineers. Both of them are equally important.

The social, economic and cultural progress of every country is impossible without the contribution of civil engineers, based on their education, professional knowledge and experience. The impacts of their activity can be evidently observed in the form of buildings and structures of various types. Civil engineers are in general socially accepted or in many cases admired. In spite of its dynamic development and its very considerable modern achievements, civil engineering is commonly treated as a rather traditional domain of technology. This situation can be observed in many countries world-wide including in Europe.

However, the reality is that the role of civil engineers in advancing social, economic and cultural progress is especially high. Moreover, civil engineering is a profession that enjoys the highest level of public confidence. Civil engineers are ultimately responsible for the safe utilization of buildings and structures. This is an especially important and often forgotten aspect of the social role of civil engineers. Apart from their technological activities, civil engineers also increasingly consider the social effects of engineering decisions. To meet this condition, civil engineers continue to widen their knowledge of the economic and social sciences.

Ultimately, civil engineering is a very exciting profession. At the end of the day civil engineers can see the results of their work, whether this is a completed bridge, a port, a high-rise building, a subway station, a tunnel, a highway, a hydroelectric dam or even a small house.

Looking to the future, the civil engineering profession will play a fundamental role in dealing with many of the challenges that society will face. The world is becoming increasingly and relentlessly urbanized and this is bringing with it unprecedented social, economic and environmental stresses. Added to this will be the impacts of climate change and environmental degradation. While all aspects of civil engineering will be put to the test, there will be a particular focus on the areas of transportation, energy and water. Civil engineers will be tasked with providing infrastructure which is both sustainable and resilient to address these challenges.

The profession will also be challenged to proactively address the opportunities and efficiencies which will be brought about by the digital revolution, also known as the fourth industrial revolution. Digital technology will drive increasing automation in our industry and there will be opportunities to use the rapidly expanding ocean of data to better design, construct, operate and maintain physical infrastructure.

Taking into account the situation briefly presented above, the European Council of Civil Engineers (ECCE) has decided to proclaim year 2018 as the European Year of Civil Engineers (2018 EYCE). The main goals of this proclamation have been to reinforce the fundamental role of civil engineers in society in improving the standard of human life, to make the case for the prestige of the civil engineering profession in the social community of European countries and to stress the pivotal role that civil engineers will play in addressing the challenges that will face society in the future.

Acting President of ECCE

Włodzimierz Szymczak

Proclamation widely distributed

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EYCE special logo

EC CE 2018 EUROPEAN YEAR OF CIVIL ENGINEERS

EYCE special logo used throughout 2018

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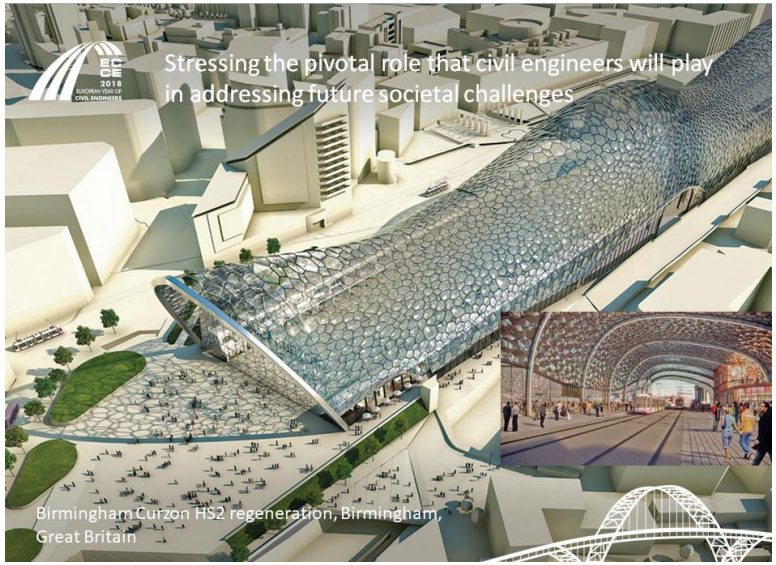
EYCE standard presentation



EYCE standard presentation delivered during the events

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Events organized by our members throughout 2018 as part of the EYCE

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More than 30 events organized in Cyprus, Slovenia, Poland, Slovakia, Hungary, Lithuania, Bulgaria, Estonia, Latvia, Portugal, Georgia, France, Greece, United Kingdom and Bolivia

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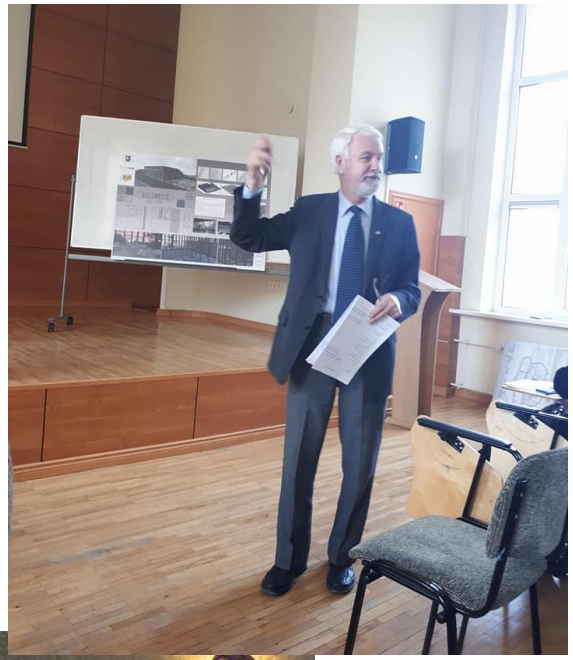
Events organized by our members throughout 2018 as part of the EYCE



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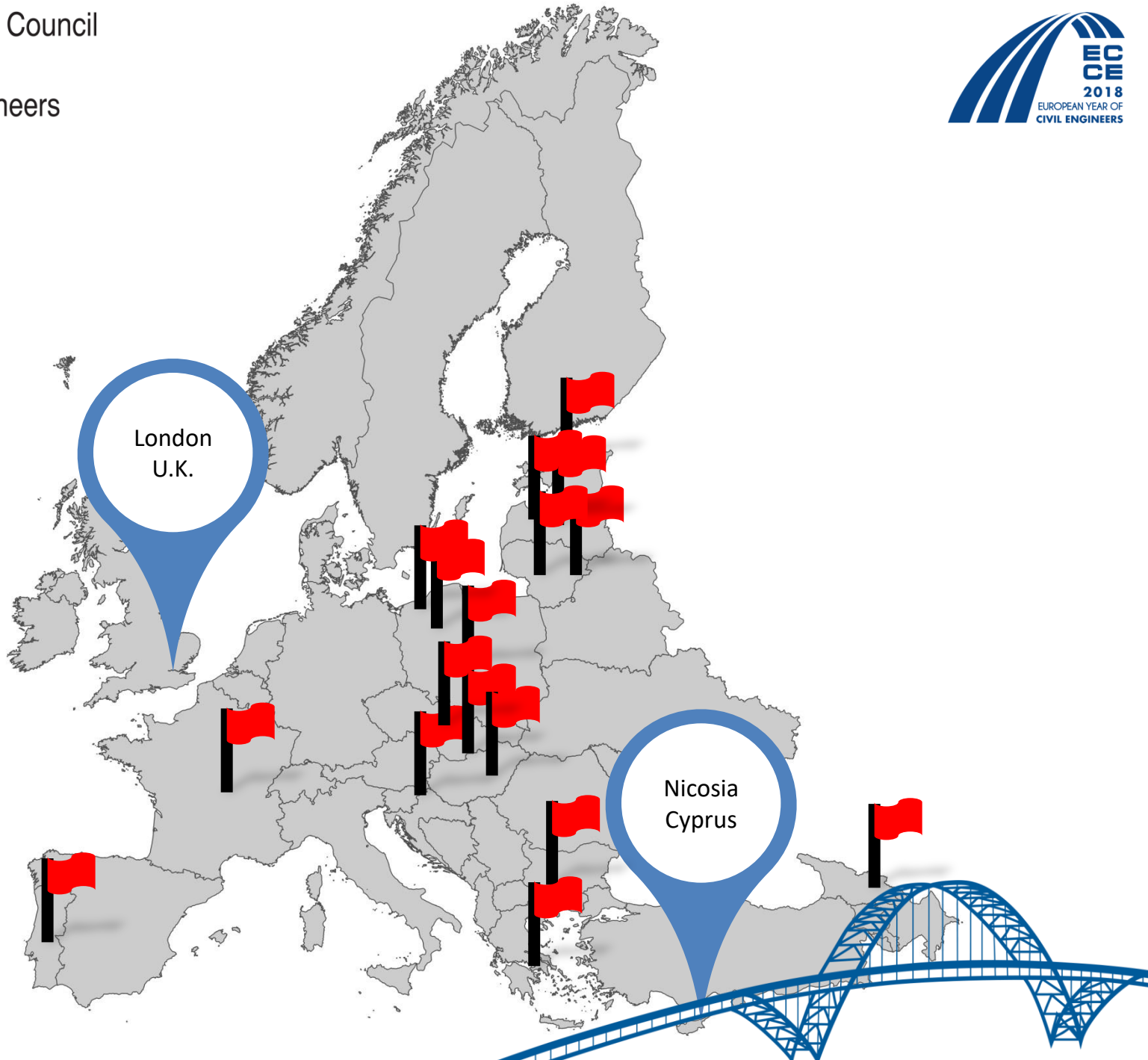

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Marketing of the EYCE

ECCE 2018 EUROPEAN YEAR OF CIVIL ENGINEERS

- Announcement on the ECCE website
- Announcement in the ECCE e-journal
- Announcement in websites and newsletters of various engineering organizations
- Announcement in the websites, e-journals and newsletters of our members
- Announcement in engineering magazines

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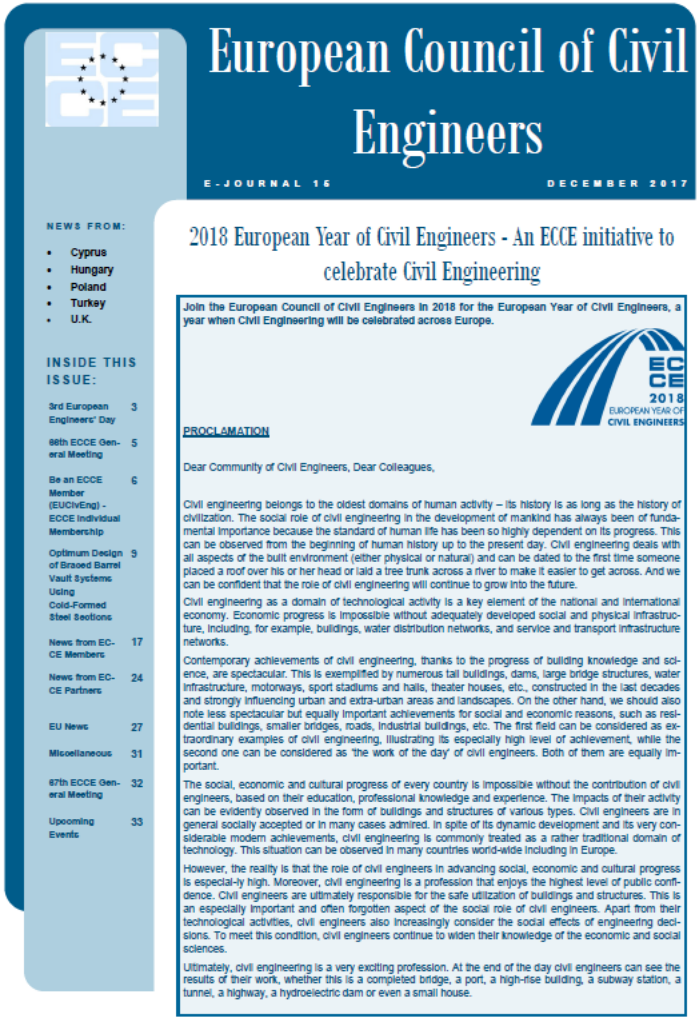
Marketing of the EYCE



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E-JOURNAL 16 DECEMBER 2017

NEWS FROM:

- Cyprus
- Hungary
- Poland
- Turkey
- U.K.

INSIDE THIS ISSUE:

2018 European Year of Civil Engineers - An ECCE initiative to celebrate Civil Engineering

Join the European Council of Civil Engineers in 2018 for the European Year of Civil Engineers, a year when Civil Engineering will be celebrated across Europe.

PROCLAMATION

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Contemporary achievements of civil engineering, thanks to the progress of building knowledge and science, are spectacular. This is exemplified by numerous tall buildings, dams, large bridge structures, water infrastructure, motorways, sport stadiums and halls, theater houses, etc., constructed in the last decades and strongly influencing urban and extra-urban areas and landscapes. On the other hand, we should also note less spectacular but equally important achievements for social and economic reasons, such as residential buildings, smaller bridges, roads, industrial buildings, etc. The first field can be considered as extraordinary examples of civil engineering, illustrating its especially high level of achievement, while the second one can be considered as 'the work of the day' of civil engineers. Both of them are equally important.

The social, economic and cultural progress of every country is impossible without the contribution of civil engineers, based on their education, professional knowledge and experience. The impacts of their activity can be evidently observed in the form of buildings and structures of various types. Civil engineers are in general socially accepted or in many cases admired. In spite of its dynamic development and its very considerable modern achievements, civil engineering is commonly treated as a rather traditional domain of technology. This situation can be observed in many countries world-wide including in Europe.

However, the reality is that the role of civil engineers in advancing social, economic and cultural progress is especial-ly high. Moreover, civil engineering is a profession that enjoys the highest level of public confidence. Civil engineers are ultimately responsible for the safe utilization of buildings and structures. This is an especially important and often forgotten aspect of the social role of civil engineers. Apart from their technological activities, civil engineers also increasingly consider the social effects of engineering decisions. To meet this condition, civil engineers continue to widen their knowledge of the economic and social sciences.

Ultimately, civil engineering is a very exciting profession. At the end of the day civil engineers can see the results of their work, whether this is a completed bridge, a port, a high-rise building, a subway station, a tunnel, a highway, a hydroelectric dam or even a small house.

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2018 European Year of Civil Engineers

An ECCE Initiative to celebrate Civil Engineering

Join the European Council of Civil Engineers in 2018 for the **European Year of Civil Engineers**, a year when Civil Engineering will be celebrated across Europe.

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Civil engineering as a domain of technological activity is a **key element of the national and international economy**. The social, economic and cultural progress of every country is impossible without the contribution of civil engineers, based on their education, professional knowledge and experience. The impacts of their activity can be evidently observed in the form of buildings and structures of various types. In spite of its dynamic development and its very considerable modern achievements, civil engineering is commonly treated as a rather traditional domain of technology. This situation can be observed in many

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Marketing of the EYCE

IABSE Nantes 2018 is supported by the European Year of Civil Engineers (EYCE)

IABSE Symposium Nantes 2018 is listed on the Calendar of the 2018 European Year of Civil Engineers, an initiative by the European Council of Civil Engineers (ECCE) to celebrate Civil Engineering across Europe. The goals of the 2018 EYCE are to:

- Reinforce the fundamental role of civil engineers in society in improving the standard of human life.
- Make the case for the prestige of the civil engineering profession in the community of European countries.
- Stress the pivotal role that civil engineers will play in addressing the challenges that will face society in the future.

As part of this celebration, the ECCE is providing FREE of charge the two ECCE book editions "Civil Engineering Heritage in Europe" and "Footbridges - Small is beautiful" in electronic format.

Read the 2018 EYCE Proclamation.

More about the 2018 EYCE here..

'Towards a Resilient Built Environme
Risk and Asset Management'
March 27-29, 2019

IABSE New York 2019
'The Evolving Metropolis'
Save the date:
September 4-6, 2019

JCSS Course:
April 4-11, 2018

IABSE *News*

IABSE's 40th Symposium in Nantes 2018: A Report

IABSE's 40th Symposium on "Tomorrow's Megastructures" 19–21 September, 2018

F. Branco (President), with B. Godart (OC, Chair); during the Opening Ceremony in La Cite de Nantes Events Centre

The beautiful city of Nantes welcomed all participants at the La Cite de Nantes Events Centre, with almost 600 delegates from 40 countries, including practitioners, researchers, and policy-makers, from 19 to 21 September 2018. The Symposium was on the topic "Tomorrow's Megastructures" and was organized by the French Group of IABSE, in cooperation with the French Association of Civil Engineering (AFGC).

Prior and while the Annual Meetings of IABSE were ongoing, three Workshops took place, which were all very well attended:

1. Structural Failures—cases, causes, investigations, lessons learned, by J. Duntemann, F. Palmisano and R. Ratay and D. Breysse
2. Designing with UHPFRC based on most recent standard, by F. Toutlemonde, E. Bruehwiler, K. Habel, Z. Hajar, B-S. Kim, J. Resplendino, and J-M. Weill
3. Practice of Finite Elements Calculation, by C. Le Quéré and D. Guth

Opening Ceremony

On 19th September, Chair of the Organizing Committee Bruno Godart officially opened the Symposium with a short presentation on the European year of Civil Engineers and an address by Ms. Christine Orain representing the President of the Loire-Atlantique Dept., Philippe Grosvalet. IABSE President, Fernando Branco gave a warm Welcome Address to all the participants and presented the IABSE Awards 2018 where all the awardees received their diplomas on stage (please refer to the article on IABSE Awards 2018).

Tobia Zordan, Chair of IABSE Foundation presented its recent joint project with the Bridge to Prosperity, providing sponsorship and construction of a footbridge in a remote community in Namawukulu-Uganda.

Andre Orcesi, SC Secretary presented the technical programme prepared by the Scientific Committee for the next 3 days of the Symposium. The Symposium continued in full swing with the first Keynote lecture by Ibrahim Mahlab, Former Prime Minister of Egypt and President of Arab Contractors Company moderated by Jacques Combault, former President of IABSE. The Scientific Committee was chaired by Christian Cremona.

Keynote Lectures

- Mega Projects towards Egyptian Construction Renascence
  Ibrahim Mahlab, Egypt
- The One-Kilometer Tall Jedda[illegible]
  Robert Sinn, US
- The New Coastal Road in La Reunion Island (France): From the Design Process to Construction
  Jean-Marc Tanis, France
- The Chernobyl Shelter: A Mega-Structure for a Safe Confinement
  Denis Etienne, France
- The Portier Cove Seaward Extension Project in Monaco
  Regis Adeline, Monaco
- Long Span Bridges
  Michel Virlogeux, France

Over the three days of the Symposium; 6 Keynotes, 64 parallel sessions were presented. Out of 503 abstracts received, 467 were accepted, and 301 full papers were finalized out of which 295 papers were presented at the Symposium. There were almost 600 attendees in the Symposium with a demographic distribution of the attendees: 66% from Europe, 25% from Asia, 4% from North America, and 5% from rest of the world.

The authors were given 15 min to present their papers which gave ample time to answer questions from the floor or even a debate. To encourage networking during the symposium, coffee breaks and standing lunches were served at the exhibition [illegible] provided plenty of opportunities [illegible] participants and exhibitors from different parts of the

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Marketing of the EYCE

Wlodzimierz SZYMCZAK*

dr. Branko ZADNIK**

LETO EVROPSKIH GRADBENIH INŽENIRJEV

2018 EYCE OD 02. 12. 2017 DO 26. 10. 2018

Spoštovana skupnost evropskih gradbenih inženirjev,spoštovani kolegi

Zgodovina gradbeništva je tako dolga kot zgodovina civilizacije. Gradbeništvo sodi med najstarejša področja človeških dejavnosti. Družbena vloga gradbeništva v razvoju človeške skupnosti je bila vedno temeljnega pomena saj je bil življenjski standard vedno močno odvisen od njenega razvoja. To je zakonitost, ki jo je možno opazovati od samega pričetka našega zgodovinskega spomina do današnjih dni. Gradbeništvo se ukvarja z vsemi področji grajenega okolja, fizičnega ali naravnega, in to od prvotnih dni, ko si je naš prednik prvič postavil primitivno streho nad glavo ali pa podrl drevo preko potoka, da ga je lažje prečkal. Tudi v prihodnosti lahko pričakujemo konstantno rast pomena gradbeništva kot osnovne tehnične panoge v družbi.

Gradbeništvo kot eno izmed področij tehnološke dejavnosti je ključni element nacionalnega in mednarodnega gospodarstva. Ekonomski napredek ni mogoč brez ustrezno razvite družbene in fizične infrastrukture, vključno z zgradbami, omrežji za distribucijo vode, energije, storitvene in prometne infrastrukture.

Sodobni dosežki gradbenega inženirstva so spektakularni tudi zaradi napredka v stroki in v znanosti. Dokaz za to so številne visoke stavbe, vodne pregrade, veliki mostovi, vodna infrastruktura, avtoceste, športni stadioni in dvorane, gledališke hiše, itd., ki so bili zgrajeni v zadnjih desetletjih in močno vplivajo na urbana in zunaj urbana območja in pokrajine. Po drugi strani pa so gradbene aktivnosti zelo močno vplivale na urbanizirana območja ter pokrajine tudi z manj spektakularnimi, vendar iz socialnih in družbeno ekonomskih vidikov zelo pomembnimi gradnjami kot so stanovanjske stavbe, majhni mostovi, ceste, industrijske zgradbe. Medtem ko opazno izstopajoče in izredno zahtevne gradnje dokazujejo visoko tehnološko raven in kvaliteto gradnje, pa ostale, manj spektakularne, predstavljajo »vsakodnevno delo« gradbenih inženirjev in so zelo pomembne za zagotavljanje blagostanja prebivalstva ter prav zaradi tega enakovredne presežnim.

Družbeni, gospodarski in kulturni napredek države je nemogoče pričakovati brez prispevka gradbenih inženirjev, ki so primerno izobraženi in imajo strokovna znanja in izkušnje. Rezultati njihovega delovanja se nedvomno odražajo v stavbah in v drugem grajenem okolju in so v splošnem v družbi dobro sprejeti ali celo občudovani. Vendar pa v številnih primerih ugotavljamo, da v širši družbeni skupnosti vloga gradbenih inženirjev ni primerno upoštevana. To nam pokaže tudi primerjava z nekaterimi drugimi poklici, kot so npr. odvetniki, zdravniki, ekonomisti ali umetniki, v okviru tehničnih poklicev pa tudi arhitekti, elektroniki, računalničarji, nanotehnologi. Kljub dinamičnemu razvoju in sodobnim dosežkom se gradbeništvo običajno in praviloma obravnava kot tradicionalna domena tehnologije. Takšno stanje

* Włodzimierz SZYMCZAK, C.Eng. (PL.), M.Sc.(Eng.), ECCE, European Council of Civil Engineers, Registered Office 1 Great George Street (Westminster) London, SW1P 3AAA, UK, Acting President

** dr. Branko ZADNIK, univ.dipl.inž.grad.**, IZS MSG, Jarška 10b, 1000 Ljubljana, nacionalni delegat v ECCE

EVROPSKO LETO GRADBENIH INŽENIRJEV 2018

2018 EYCE

2. 12. 2017–26. 10. 2018

Spoštovana skupnost evropskih gradbenih inženirjev, spoštovani kolegi!

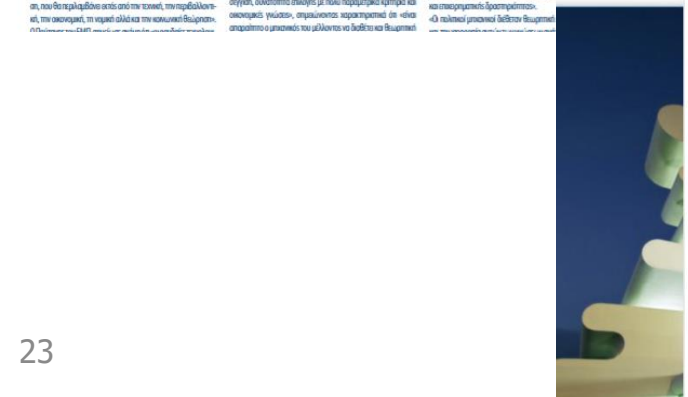
European Council of Civil Engineers

Marketing of the EYCE

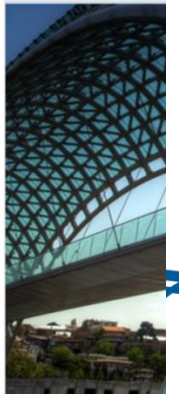
ΕΚΔΗΛΩΣΗ ΤΕΕ – ECCE : «ΑΠΟ ΤΟ ΠΑΡΕΛΘΟΝ ΣΤΟ ΜΕΛΛΟΝ, ΑΠΟ ΤΗΝ ΑΡΧΑΙΑ ΕΛΛΗΝΙΚΗ ΤΕΧΝΟΛΟΓΙΑ ΣΤΙΣ ΕΞΥΠΝΕΣ ΠΟΛΕΙΣ»

Wlodzimierz Szymczak Πρόεδρος του Ευρωπαϊκού Συμβουλίου Πολιτικών Μηχανικών – ECCE: «Πρωταγωνιστικός ο ρόλος των πολιτικών μηχανικών στον ενεργειακό τομέα των κτιρίων και στην αντιμετώπιση της Κλιματικής Αλλαγής»

Ιωάννης Γκόλιας, Πρύτανης του ΕΜ Πολυτεχνείου: «Οι πολιτικοί μηχανικοί ήταν και θα παραμείνουν οι πρωταγωνιστές στις σημαντικές εξελίξεις της ανθρωπότητας»



The 68th ECCE General Meeting was held on 22nd –23rd October 2018, in London, U.K., hosted by the Institution of Civil Engineers (ICE). This meeting has been held in parallel with the Global Engineering Congress (GEC) that was organized as part of the ICE 200 bicentenary programme, the 50th anniversary of WFEO and the UK Government's



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Communication of the EYCE to the EU Authorities

EC CE 2018 EUROPEAN YEAR OF CIVIL ENGINEERS

Congratulations and support letters received by the following:

- **European Commission President Jean – Claude Juncker**
- Deputy Director General **Irmfried Schwimann** (Internal Market, Industry, Entrepreneurship and SMEs) on behalf of **Commissioner Elżbieta Bieńkowska**
- **Commissioner Carlos Moedas** (Research, Science and Innovation)
- **Commissioner Tibor Navracsics** (Education, Culture, Youth and Sport)

Congratulations letters received by the following:

- **Commissioner Mariya Gabriel** (Digital Economy and Society)
- **European Commission First Vice – President Frans Timmermans**
- **Commissioner Dimitris Avramopoulos** (Migration, Home Affairs and Citizenship)

European Council of Civil Engineers

ECCE's additional contribution to the European Year of Civil Engineers

ECCE 2018 EUROPEAN YEAR OF CIVIL ENGINEERS

- The ECCE Executive Board decided to contribute to the EYCE by granting free access to the two ECCE book editions **"Civil Engineering Heritage in Europe"** and **"Footbridges – small is beautiful"**.

- The two books can be downloaded via the ECCE website at the following links:

  - **"Civil Engineering Heritage in Europe"**
    http://www.ecceengineers.eu/news/2018/ECCE_CEHE_book.pdf"

  - **Footbridges – small is beautiful"**
    http://www.ecceengineers.eu/news/2018/ECCE_Footbridges_book.pdf

- Preparation of an ECCE booklet **"Notes on the history of civil engineering".** The book was published on time and it was presented and distributed at the closing event of the EYCE, in London.

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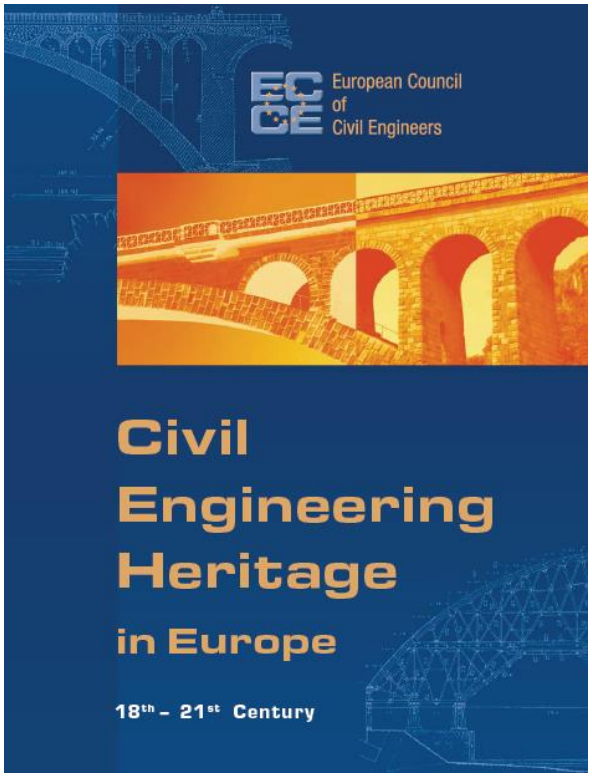
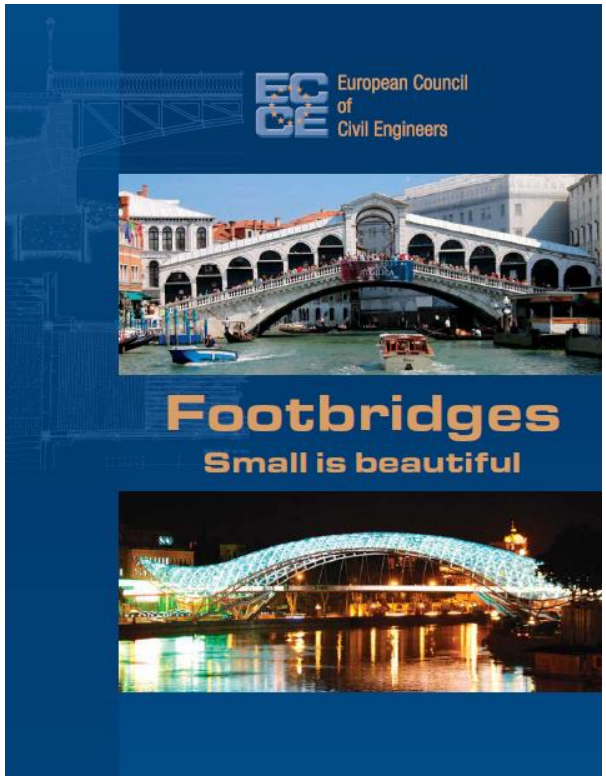
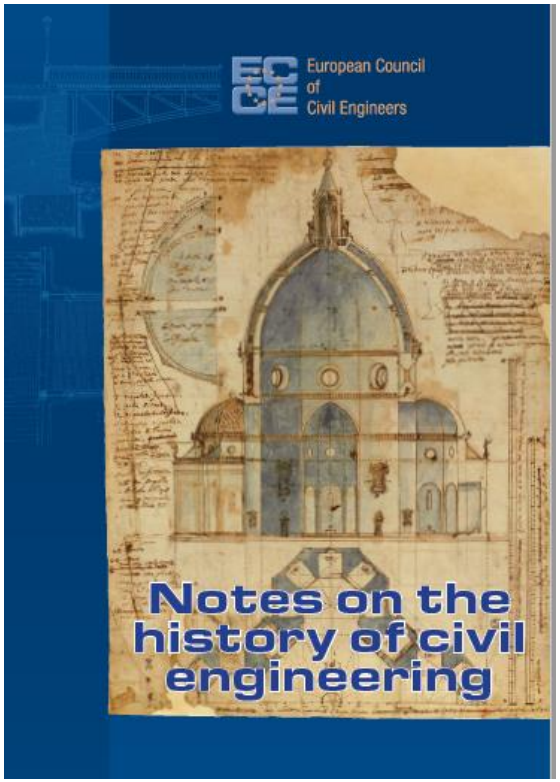
ECCE 2018 EUROPEAN YEAR OF CIVIL ENGINEERS







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Thank you for your contribution in marking 2018 as the European Year of Civil Engineers and making our profession more visible to the world!