Dear Sir or Madam,

**ACCOMODATION - ROOMS WILL DEPEND ON AVAILABILITY AFTER 25TH FEBRUARY 2019**

Please note that special room rates for WCF2019 participants have been negotiated with these suggested hotels: [https://www.wcf2019.org/hotel-accommodation/](https://www.wcf2019.org/hotel-accommodation/).

To take advantage of these rates and secure your accommodation, please make your booking by 25th February 2019. Please note that after this date rooms will depend on availability. Accommodation is booked on a “first-come, first-served” basis so participants are encouraged to book early.

**LETTER OF GUARANTEE & INVITATION LETTER**


Participants who require a visa to enter Slovenia need to request a letter of guarantee, which will be issued by the Conference Secretariat. A letter of guarantee has to be enclosed to your formal application for a Schengen visa.

The letter of guarantee is issued exclusively for the purposes of Visa arrangements and does not imply provision of any financial or other support. A letter of guarantee is issued only after receiving payment of the forum attendance fee.

In case you apply for a Visa at an Embassy, please fill in the form below in order to obtain the letter of guarantee and fax it to +386 1 241 72 96 or send it by e-mail to registration@cd-cc.si. Participants who already possess a valid Schengen visa type C or a valid residence permit issued by another Schengen country do not need to obtain an additional visa to enter Slovenia. For more information please see - [https://www.wcf2019.org/registration/](https://www.wcf2019.org/registration/).

In case you need an invitation letter please ask for it at the registration@cd-cc.si. Invitation letter does not imply provision of any financial or other support.

**INVITATION BY WFEO PRESIDENT DR. MARLENE KANGA**

President of the World Federation of Engineering Organisations, dr. Marlene Kanga: “I am delighted that the World Federation of Engineering Organisations is co-hosting the World Construction Forum 2019 with Slovenia. The forum will focus on several sustainable development goals: energy, innovation, sustainable infrastructure and action against climate change. We look forward to seeing you all in Ljubljana in April.”

Link to video - [https://www.youtube.com/watch?time_continue=45&v=9o4xOl1Qu2Q](https://www.youtube.com/watch?time_continue=45&v=9o4xOl1Qu2Q)

**FORUM THEMES – INTRODUCTION OF THEMES**

Today we would like to introduce you Theme 2 - Construction 4.0 – Advanced Construction Engineering

**THEME 2 – CONSTRUCTION 4.0 – ADVANCED CONSTRUCTION ENGINEERING**

**Scope of Theme**

Construction 4.0 is the construction industry’s version of Industry 4.0. Technically, industry 4.0 is about creating cyber-physical systems. In these systems the material world and the digital world merge and overlap into one – with the goal of creating not only high quality, inexpensive and sustainable, but also smart, interconnected and customized products for the end user. Construction 4.0 is achieved through the internet of people and their social
networks and internet of things where the material world is flooded with sensors and cameras; where machines are digitally controlled and include robots and 3D printing. Data (big data!) is collected and analysed using cognitive computing methods, artificial intelligence, high-performance computing, and cloud computing for storage and processing. A key technological element is a digital twin of the real world where the interaction of the digital with the real can be designed and simulated. In construction, this is called the Building Information Model.

Chair and Co-Chairs
Chair: Prof. Dr Žiga Turk, Slovenia, Faculty of Civil and Geodetic Engineering, University of Ljubljana
Co-Chair: Prof. Ke Gong, China, WFEO’s President-Elect and acting Vice President, Chair CEIT (Committee on Engineering for Innovative Technologies)
Co-Chair: Aris Chatzidakis, Greece, President of the European Council of Civil Engineers

Prof. dr. Žiga Turk
is a Professor of Construction Informatics and Documentation and Vice-Dean of the Faculty of Civil and Geodetic Engineering at the University of Ljubljana. Originally a structural engineer, he has M.Sc. in computer science and PhD in technical sciences. His academic interests include construction informatics, construction information technology, computer integrated construction, theoretical basis of process and building information management (BIM), engineering communication and the related aspects of technology and philosophy. He studies modern forms of learning, knowledge transfer, internet science and responsible researching. He published over 40 papers in scientific journals, delivered 20 keynotes and invited lectures and over 120 reviewed conference papers.

Section key-note speakers:
Prof. Dr Raimar Scherer: From Industrie 4.0 to Construction 4.0
M. Stefanova: Digitization of the Construction Industry. Engineering Organizations in Support of European Initiatives, BIM Standardization and Accelerating BIM Adoption
Z. Meyer: Analysis of Combined Pile Raft Foundation based on a static load test.

Other speakers in section:
R. Klinc: Perspectives for Industry 4.0 in Construction
V. Stankovski: Building smart and safe construction sites with dependable decentralised artificial intelligence applications
M. Komac: Public & free(?) access to spatial data
H. Ooging: New aspects of interdisciplinary cooperation based on OPEN BIM platform
J. Čestnik: Consistent and standard model content – a way towards utilization of advanced BIM use cases
V. Benko: Supporting measures of BIM from the perspective of professional institutions
A. Žnidarič: Using bridge-wim to measure bridge performance indicators
A. Gatti: GeoGuard: an innovative service to monitor the displacements of structures and ground, based on cost-effective GNSS sensors
P. Savic: Analysis of Frame Constructions of Morefloors Buildings with the Aspect on Distribution of Internal Forces
R. Žarnić: Optimization test study of connections and joints between elements of the hybrid timber-structural glass panel
J. Barbalic: Numerical models for verification of bearing capacity of the hybrid timber-structural glass panel
S. Stadniczenko: Project of railway Tunnel connecting three main stations Łódź
M. Mirkovic: Analysis of the function availability impact on construction system indicators in the infrastructural works
M. Jemec Auflič: GIMS: an innovative cost-effective system to monitor ground deformations, based on GNSS, InSAR and inertial measurement units

WFEO PROGRAMME
Before the official start of WCF 2019, Ljubljana will also host meetings of WFEO boards on Saturday, 6th of April, Sunday, 7th of April and Monday, 8th of April. Meetings on Saturday and Sunday will take place in the Grand Hotel Union. WFEO Extended Board meeting on Monday will be held at the University of Ljubljana before the official start and registration to World Construction Forum 2019.
ACCOMPANYING PERSONS PROGRAMME
Ljubljana Walking Tour
You will be able to discover the beauties of Ljubljana, the capital city of Slovenia, on the two hours long walking trip around the centre of the city. The old city centre has a unique architectural appearance, particularly due to a felicitous combination of Baroque and Art Nouveau architecture and masterful creations by the 20th-century architect Jože Plečnik. Our professional English-speaking guide will take you around the city.

REGISTRATION IN PROGRESS
The registration to the forum and to the WFEO meeting is fully in progress. Please register on-line: https://cankarjevdom.eventsair.com/2019-world-construct-forum/wcf-2019-registration-siteSite/Register

On-line registration enables you to register for the forum, the WFEO meeting, the social programme (accompanying events: technical visit, gala dinner), accommodation and sightseeing (trips).

More information on hotel accommodation, gala dinner, technical visit and sightseeing:
https://www.wcf2019.org/registration/

FOLLOW US ON FACEBOOK AND LINKEDIN
Up-to date information about organisation of WCF 2019 and other interesting information about Slovenia and Ljubljana can be found on Facebook and LinkedIn. We are kindly inviting you to join us and LIKE us at the Facebook page: https://www.facebook.com/WCFLJ2019/
And follow as on LinkedIn: https://www.linkedin.com/company/inzenirska-zbornica-slovenije/

ORGANIZERS & INFORMATION
Organizers:
Slovenian Chamber of Engineers
Faculty of Civil Engineering and Geodesy, University of Ljubljana
World Federation of Engineering Organizations

Information for speakers/authors:
Faculty of Civil Engineering and Geodesy, University of Ljubljana, secretariat@wcf2019.org

Information for WFEO Delegates:
Slovenian Chamber of Engineers, Ms Polona Okretic, E-mail: polona.okretic@izs.si, Phone: +386-1-547-33-17

Information on registration and accommodation:
Cankarjev dom, Cultural and Congress Centre, E-mail: registration@cd-cc.si, Phone: +386 1 241 7136, Fax: +386 1 241 7296

About forum: