

# 2022

28 - 30 September 2022

Hotel Izvor, Arandjelovac, Serbia

# 16<sup>th</sup> CONGRESS

OF THE ASSOCIATION OF STRUCTURAL ENGINEERS OF SERBIA - ASES

in a cooperation with the University of Belgrade – Faculty of Civil Engineering and University of Novi Sad – Faculty of Technical Sciences

## The Organizing Committee

prof. dr Zlatko Marković (president), Lazar Marković (vice-president), assoc. prof. dr Ivan Ignjatović (general secretary), prof. dr Boško Stevanović (secretary), Dimitrije Aleksić, assist. prof. dr Vedran Carević, assoc. prof. dr Jelena Dobrić, assist. prof. dr Jelena Dragaš, assist. prof. dr Nina Gluhović, Milan Grčić, assist. prof. dr Đorđe Jovanović, Branko Knežević, assoc. prof. dr Danijel Kukaras, prof. dr Đorđe Ladinović, assoc. prof. dr Selimir Lelović, Miroslav Mihajlović, assoc. prof. dr Branko Milosavljević, assoc. prof. dr Marija Nefovska-Danilović, Đorđe Pavkov, Darko Popović, assoc. prof. dr Milan Spremić, prof. dr Dragoslav Stojić, assist. prof. dr Marija Todorović, Duško Tomić, assoc. prof. dr Vladimir Vukobratović.

## The Scientific Committee:

prof. dr Svetlana Brzev (Canada), assist. prof. dr Gordana Broćeta (BiH), prof. dr Meri Cvetkovska (North Macedonia), assoc. prof. dr Jelena Dobrić (Serbia), prof. dr Michael Fardis (Greece), prof. dr Miguel Fernández Ruiz (Spain), prof. dr Radomir Folić (Serbia), prof. dr Nenad Ivanišević (Serbia), assoc. prof. dr Ivan Ignjatović (Serbia), assoc. prof. dr Vojkan Jovičić (Slovenia), prof. dr Miloš Knežević (Montenegro), prof. dr Đorđe Ladinović (Serbia), assoc. prof. dr Selimir Lelović (Serbia), assist. prof. dr Jože Lopatič (Slovenia), prof. dr Duško Lučić (Montenegro), prof. dr Snežana Marinković (Serbia), assoc. prof. dr Miroslav Marjanović (Serbia), prof. dr Zlatko Marković (Serbia), prof. dr Goran Markovski (North Macedonia), assoc. prof. dr Branko Milosavljević (Serbia), assoc. prof. dr Primož Može (Slovenia), assoc. prof. dr Marija Nefovska-Danilović (Serbia), prof. dr Vlastimir Radonjanin (Serbia), prof. dr Marina Rakočević (Montenegro), assoc. prof. dr Andrija Rašeta (Serbia), prof. dr Boško Stevanović (Serbia), prof. dr Dragoslav Stojić (Serbia), prof. dr Nina Štirmir (Croatia), assist. prof. dr Trayana Tankova (Portugal), prof. dr Milan Veljković (Nederland), assoc. prof. dr Zlatko Zafirovski (North Macedonia).

## OTHER CONGRESS ACTIVITIES

- ① **The Charter** for Lifetime Achievement assignment to the outstanding creators in the field of structural engineering;
- ② **Awards** assignment for the best scientific and technical achievements in the field of structural engineering for 2020 and 2021;
- ③ **Round table** discussion about the most interesting topics for structural engineering in Serbia

## Accompanying program

- ① Special session with presentations of research ideas of doctoral students; the best ideas judged by the audience and experts will be awarded;
- ② Exhibition of books, computer programmes, new materials, construction solutions and other technical and technological achievements by domestic and international companies;
- ③ Exciting touristic programme for all interested participants of the Congress as well as for the accompanying person.

## IMPORTANT DATES:

- 01.04.2022. Submission of abstract
  - 01.05.2022. Acceptance of abstract
  - 15.06.2022. Submission of full papers
  - 01.08.2022. Information about acceptance of paper
- Registration and paper submission (in Serbian or English) will be available through the Association's website <http://dgks.grf.bg.ac.rs>  
Papers that are not being made in accordance with the instructions will be returned to authors for additional correction. The number of pages: 6 -12 (always even number of pages).

## MAIN TOPICS IN STRUCTURAL ENGINEERING

1. Theoretical and experimental research in structural engineering
2. Calculation and modelling of structures
3. Aseismic design and construction
4. New construction materials and technologies
5. Information and BIM technologies in construction
6. Design and execution of structures

7. Estimate of state, rehabilitation and reconstruction of the existing building structures
8. Technical regulations for structures
9. Follow up of the state, maintenance and durability of structures
10. Foundation engineering and geotechnical works
11. Design management
12. Environmental impact of construction

## OPENING LECTURES

Opening lectures will be held by remarkable scientists and professionals:

### • Dr Michael Fardis

Professor of Concrete Structures, University of Patras, Greece

### • Dr Miguel Fernández Ruiz

Professor of Structural Design, Universidad Politécnica de Madrid, Spain

### • Dr Vojkan Jovičić

Professor of Geotechnical Engineering, University of Ljubljana, Slovenia

### • Dr Viktor Markelj

Director, PONTING, Maribor, Slovenia

### • James Pawlikowski

Director of Engineering, REX Engineering Group, Chicago, USA

### • Jesper Pihl

Senior Bridge Specialist, COWI, Denmark

### • Dr Trayana Tankova

Assis. Professor of Structural Mechanics, University of Coimbra, Portugal.

## REGISTRATION

Registration fee: 150 EUR

(students of master and doctoral courses as well as young engineers up to 30 years 75 EUR)

\* The payment should be in Serbian dinars (RSD) according to the middle exchange rate at the date of payment. The members of ASES have a 10% discount.

The registration fee includes:

- publishing of paper in the Proceedings of the Congress
- a promo material at the Congress
- the cocktail party at the opening ceremony,
- lunches on 29th and 30th of September
- refreshment during breaks and the gala dinner.

Registration fee can be paid electronically through the website <https://dgks.grf.bg.ac.rs> in the section "Congress 2022" or according to the following instructions:

Structural Engineers Association of Serbia - ASES  
Bulevar kralja Aleksandra 73, 11000 Belgrade, Serbia  
Account No.: Banca Intesa  
Dinar Account: 160-372745-57  
Foreign currency  
account: 00-540-0000237.5  
IBAN: RS35160005400000237553

\* In Proceedings of the Congress 2022 will be published only the papers of those participants who have paid the registration fee. One registration fee covers maximum two papers.



## HOTEL ACCOMMODATION

All participants will be accommodated in the Hotel Izvor, Arandelovac.

The prices for half-board (breakfast and dinner) per person, per day, are as follows:

Room type	Price per person, for a certain number of persons in a room (1, 2 or 3)		
	1	2	3
single bed (18m <sup>2</sup> )	85 €	-	-
room suitable for disabled people	85 €	47.5 €	-
double bed (25m <sup>2</sup> )	105 €	57.5 €	-
triple bed (40m <sup>2</sup> )	130 €	70 €	60 €
suite (60m <sup>2</sup> )	170 €	90 €	73.3 €

The showed privileged prices can be used until 28.07.2022.

We kindly ask all participants to book the room as soon as possible, taking into account the limited availability of alternative accommodation (out of hotel Izvor).

Prices showed above include the use of Spa&Wellness center (Inner swimming pools with natural mineral water, steam bath, Finnish dry sauna, bio sauna, relax room, Russian spa, tepidarium, joyful showers, fitness center).

Wi-fi internet of standard speed is included in the price. Accommodation tax of 1.0 EUR per person and day is not included in the above given prices.

Reservation for the participants of Congress should be made individually by email or phone. Participation at the Congress must be noted in order to use privileged prices

- e-mail: tamara.milojevic@ahoteli.com
- телефон: +381 63 10 28 046



## CALL FOR SPONSORS

Organizer of the Congress, The Association of Structural Engineers of Serbia – ASES, announces a call for sponsors and donators to take a part into the work of the 15th ASES Congress and contribute to the success of the Congress.

The list of the sponsors that financially supported the Congress will be announced in the Congress Proceedings Book and visibly prominent during the Congress. Companies and institutions which would like to organize a presentation (exhibition) of their achievements or products during the Congress should inform the Organizing Committee (in written form) before 1st of July 2022 about the character of the presentation and the space needed for these activities. More details about the details on sponsor benefits and opportunities for exhibitors can be found at the official ASES's website <https://dgks.grf.bg.ac.rs>.

Contact persons for all additional information:

General Secretary of ASES: Assoc. Prof. Ivan Ignjatović  
Phone: 011 328 546, e-mail: ivani@grf.bg.ac.rs



## CALL FOR NOMINATION OF CANDIDATES FOR THE ASES AWARDS

1. LIFETIME ACHIEVEMENT CHARTER
2. BEST SCIENTIFIC AND TECHNICAL ACHIEVEMENTS IN STRUCTURAL ENGINEERING OF SERBIA FOR 2020 AND 2021

Detailed information about the content and applying process for The Charter for Lifetime Achievement candidates and The best scientific and technical achievements candidates will be available on the ASES website

<https://dgks.grf.bg.ac.rs> under the group "Awards".

Candidate nomination for both awards, with all relevant information, should be submitted no later than March 15th 2022, to the Presidency of ASES on the following address: Institute of Materials and Structures – Faculty of Civil Engineering, 11000 Belgrade, Bulevar kralja Aleksandra 73, (room 7a). Applications can be sent by mail or submitted in person.

For additional information please visit <https://dgks.grf.bg.ac.rs>, through which you can also join ASES or renew the membership.

Several oportunities for sponsorships:

- platinum sponsor 400.000 dinars
- gold sponsor 200.000 dinars
- silver sponsor 100.000 dinars
- bronze sponsor 50.000 dinars



+ Faculty of Civil Engineering University of Belgrade  
+ Faculty of Technical Sciences University of Novi Sad

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## DATE

September  
28 - 30  
2022

## VENUE

Hotel Izvor  
Arandjelovac  
Serbia

2<sup>nd</sup> INFORMATION  
March 2022.



Association of Structural Engineers of Serbia

Technical Secretary of ASES: Ms. Stoja Todorović-Saška  
phone: 011/3218-610, 011/3218-505, e-mail: dgks@grf.bg.ac.rs

## CONGRESS PROGRAM

ASES Congress is a traditional gathering place for structural engineers where they can sum up the results achieved in the last two years, announce important events and future projects and give a review of current achievements in science, research and practice in the field of structural engineering. Considering the regional importance of the Congress and its international character, it is expected that, besides the participants from our country, a considerable number of structural engineers from abroad will participate in the work of the 16<sup>th</sup> Congress.

The most important achievements in structural engineering in the field of design, execution, maintenance and rehabilitation of building structures will be presented at the Congress. Special attention will be taken on the recently changes in technical rules in the field of design, construction and maintenance of structures, which are based on the use of European standards – Eurocodes. Significant space is dedicated to the development and use of modern materials, building technologies, information and BIM technologies. In addition, it is planned to present the results of the latest theoretical and experimental research of interest for theory and practice in structural engineering. Our and worldwide findings, skills and experiences in modern construction, maintenance and rehabilitation of structures will be presented.

The 16<sup>th</sup> Congress, as it has always been before, will provide an opportunity to establish direct contacts and to mix and meet old friends and new people, as well as to exchange professional and scientific experiences.

Scientific and professional achievements of the Congress participants will be presented in the Proceedings and on posters. The authors of papers will be allowed to present their papers to the Congress participants at an up-to-date technical level with the time reserved for discussion.

Since ASES takes special care of the scientific youth, there will be special session organised. Young authors' research presentations will be presented and the best ones, selected by the jury and the audience, will be awarded. The top three papers presented at the Congress by young authors (younger than 30 years) will be published in the national journal Building Materials and Structures (M24).

## KEYNOTE LECTURES



### **Dr Michael Fardis**

DESIGN OF RC BUILDINGS ACCORDING TO THE FIRST AND THE SECOND GENERATION OF EUROCODE 8: TECHNICAL DEVELOPMENTS AND PRACTICAL IMPLEMENTATION



### **Dr Vojkan Jovičić**

GEOTEHNIČKI ASPEKTI GRAĐEVINARSTVA



### **James Pawlikowski**

TALL BUILDING DESIGN STRATEGIES



### **Dr Trayana Tankova**

STABILITY DESIGN OF HIGH STRENGTH STEEL MEMBERS



### **Dr Miguel Fernández Ruiz**

SCIENCE AND ENGINEERING. OBSERVATION AND MAKING



### **Dr Viktor Markelj**

RAILWAY VIADUCT PESNICA - FROM CONCEPTUAL TO DETAILED DESIGN



### **Jesper Pihl**

THE DESIGN OF THE 1915 CANAKKALE BRIDGE