

12. godišnja konferencija Društva za integritet i vek konstrukcija „Prof. dr Stojan Sedmak“

Dvanaesta godišnja konferencija (DIVK12) održana je od 17.-19. novembra 2024. godine u Beogradu, na Mašinskom fakultetu. Organizatori skupa bili su DIVK, Institut IMS i Inovacioni centar Mašinskog fakulteta, uz značajnu podršku Mašinskog fakulteta Univerziteta u Beogradu. Bitan doprinos uspehu konferencije su dali sponzori (Refit, Mont-R, Goša FOM, Veritas, MIP Čuprija, Sanacija i ispitivanje metala, DGNDT), a posebnu zahvalnost dugujemo Ministarstvu za nauku, tehnološki razvoj i inovacije na značajnoj materijalnoj podršci.

Učesnicima se prvo obratio dekan Mašinskog fakulteta, prof. dr Vladimir Popović, poželevši im dobrodošlicu. Prisutnima se obratio i prof. dr Nenad Zrnčić, direktor Inovacionog centra Mašinskog fakulteta, istakavši važnost konferencije u međunarodnim okvirima. Uspešan rad učesnicima skupa pozeleo je i dr Dragan Bojović, direktor Instituta IMS, istakavši neophodnost i važnost ovakvih naučnih skupova u cilju podizanja ugleda Srbije. Konferenciju je zvanično otvorio predsednik DIVK, prof. emeritus dr Aleksandar Sedmak. Ukupan broj učesnika je bio 160 (77 iz Srbije, 83 iz 24 inostrane države), od toga 104 sa radom (39 iz Srbije, 65 iz inostranstva), odnosno 110 učesnika na licu mesta i 50 onlajn.

Program skupa realizovan je u tri dana, od nedelje 17. novembra, kada je uz registraciju učesnika priređen koktel dobrodošlice, uz radni dao skupa 18. i 19. novembra. Plenarni predavači su bili Jose Correia, Filippo Berto, Francesco Iacoviello, Miloš Đukić, Grzegorz Lesiuk, Bojan Međo i Dorin Radu. Specijalno predavanje je održao i prof. emeritus dr Aleksandar Sedmak u čast prof. dr Mladena Berkovića (1936-1999). Tokom konferencijske svečane

večere, održana je ceremonija dodele nagrada DIVK, posvećenih legendama mehanike loma „Stojan Sedmak“ Blagoju Petrovskom, „Aleksandar Radović“ Vencislavu Grabulovu, „Mladen Berković“ Aleksandru Sedmaku, Tihoslav Tošić Institutu IMS, „Marko Rakin“ Bojanu Među. Posebna priznanja su dobili Jovo Jarić, počasni gost konferencije, za doprinos u teorijskom razvoju mehanike loma, Jianying He za doprinos u nanomaterijalima, Filippo Berto za doprinos u mehanici loma i Francesco Iacoviello za izuzetnu podršku DIVK-u, a Shengwen Tu za najbolji rad mladih autora. Detaljniji prikaz može da se vidi na www.divk12.com.

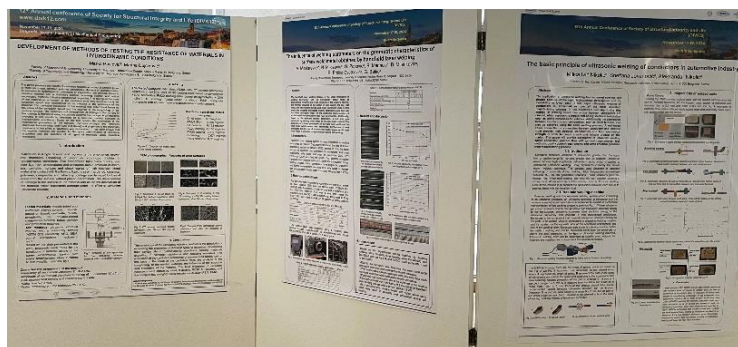
Na devet tematskih sesija razmatrani su svi važni aspekti mehanike loma i integriteta konstrukcija, sa naglaskom na inovacije i nove trendove, veštačkoj inteligenciji, multidisciplinarnom pristupu, kao i studijama slučaja, koje uključuju analizu rizika i bezbednosti, uzimajući u obzir uticaje na životnu sredinu, ponašanje materijala, njihovu karakterizaciju i specifičnost konstrukcija. Kvalitet plenarnih predavanja, kao i predavača u oba radna dana skupa, doprineo je otvaranju nekih novih tema i uvid u nove trendove u proceni integriteta konstrukcija - što je činilo i osnovnu ideju ovog skupa. Takođe je potrebno istaći i prisustvo predstavnika domaćih preduzeća, čime je ovaj skup prepoznat kao važan i u inženjerskim krugovima. E-verzija zbornika apstrakata je dostupna na web stranici <https://www.divk12.com/divk12/publications>, dok je poziv za radove u specijalnom izdanju časopisa *Procedia Structural Integrity* (Elsevier) otvoren do 25. decembra 2024. Odabranim autorima biće upućen poziv za specijalno izdanje *Engineering Fracture Mechanics* i za časopis *DIVK Structural Integrity and Life*.



Otvaranje skupa



Predavanje prof. Jianying



Poster sekcija



Veselo društvo u pauzi predavanja

A. Sedmak

1ST BIENNIAL ESIS-CSIC CONFERENCE ON STRUCTURAL INTEGRITY (BECCSI)

In Belgrade, Serbia, November 25-28, 2025

<https://www.beccsi2025.com>

The European Structural Integrity Society (ESIS) and the China Structural Integrity Consortium (CSIC) are proud to announce the biennial ESIS-CSIC conferences on Structural Integrity (BECCSI). This initiative is established following the signing of the Memorandum of Understanding on November 8, 2024, in Dongguan, during the 2024 International Symposium on Structural Integrity (ISSI2024). The BECCSI will alternate biennially between Europe and China, starting in 2025 in Europe. Belgrade, the capital of Serbia was chosen as the first venue and the Serbian Structural Integrity Society (DIVK) as the local organiser.

The 1st BECCSI will serve as a unique platform for the structural integrity community to explore novel solutions and manufacturing techniques, evaluate advancements in codes and standards, and address key technical challenges in the field of engineering. Furthermore, the event will seek to place these discussions in the broader context of environmental impact and the future landscape of manufacturing, all of it with the ultimate goal to prevent failure and ensure complete structural integrity.

The three-day conference will create a conducive environment for participants to network with international structural integrity leaders. It will facilitate subsequent discussions and the exchange of diverse views and information among attendees. Special focus of the conference will be on young researchers, including a competition for Best Student Paper Awards.

Presentations and posters will cover a range of fracture and fatigue topics with a special focus on:

- Structural integrity for advanced manufacturing
- Reliability-centred manufacturing
- Fatigue and fracture under extreme conditions
- Innovative non-destructive testing and monitoring techniques
- Multi-scale material testing, modelling and analysis
- Structural health monitoring and life extension
- Artificial intelligence and big data
- Numerical simulation of fracture and fatigue process

We invite you to propose thematic sessions for this conference, which needs to include:

- Title of the thematic session
- Name, affiliation, and email address of the proposer(s)
- Short description of the thematic session (not exceeding 100 words)

Chairmen

Aleksandar Sedmak, Professor Emeritus, University of Belgrade, Faculty of Mechanical Engineering; President of ESIS
Shan-Tung Tu, Professor Dr, East China University of Science and Technology, President of CSIC

Executive chairmen

Jianying He, NTNU Nanomechanical Lab, Norway
Branislav Djordjevic, Innovation Center of the Faculty of Mechanical Engineering, Belgrade, Serbia
Jian-Feng Wen, East China University of Science and Technology, China

Local organising committee

Aleksandar Sedmak, University of Belgrade, Serbia
Branislav Djordjević, Innovation Centre of the Faculty of Mechanical Engineering, Belgrade, Serbia
Simon Sedmak, Innovation Centre of the Faculty of Mechanical Engineering, Belgrade, Serbia
Ana Petrović, University of Belgrade, Serbia
Mhajlo Arandjelović, Innovation Centre of the Faculty of Mechanical Engineering in Belgrade, Serbia
Ivana Cvetković, University of Belgrade, Serbia
Stefan Dikić, University of Belgrade, Serbia
Dragan Bojović, IMS Institute, Belgrade, Serbia
Isaak Trajković, Innovation Centre of the Faculty of Mechanical Engineering, Belgrade, Serbia
Zoran Radaković, University of Belgrade, Serbia

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Željko Božić, University of Zagreb, Croatia
Zoran Radaković, University of Belgrade, Serbia

Important dates

Abstract submission deadline: July 1, 2025
Notification on abstract acceptance: July 10, 2025
Conference: November 25-28, 2025
Full paper submission (for PSI): after the conference ... date to be announced

Contact information

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