



Jelena Dragaš

Assistant Professor,

Date of birth: May 14th 1986

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<http://imksus.grf.bg.ac.rs/nastava/NT/ConStruct/ConStruct%20Research%20Team.pdf>

Education & Work Experience

Faculty of Civil Engineering, University of Belgrade, Serbia

PhD, Civil Engineering, *Ultimate capacity of high volume fly ash reinforced concrete beams*, 2018

MSc, Civil Engineering, *Design of pedestrian bridge made of aluminum alloys according to Eurocode*, 2010

BSc, Civil Engineering, 2009

Faculty of Civil Engineering, University of Belgrade, Serbia – Assistant professor

Teaching assistant: January 2013 – January 2019

Assistant professor: February 2019 – present (Theory of concrete structures, Concrete bridges, Environmental aspects of concrete structures and green concretes)

VVČELIK d.o.o., Belgrade, Serbia

Civil Engineer, Design of steel structures: September 2010 – December 2012

Research projects

1. **Circ-Boost:** Horizon Europe Programme project that focuses on testing and upscaling circular solutions in buildings and the construction sector through five pilot projects deployed in different European regions (2023-2027). <https://circboostproject.eu/>
2. **Serbian Science and Diaspora Collaboration Program:** Hybrid Solution for Improved Green Concrete Performance. Knowledge exchange program with Technical University of Delft, The Netherlands (2021).
3. **SPS project 985402 (IMSAFE): Improved Security through Safer Cementation of Hazardous Wastes.** Research Project with University of Sheffield (UK) and Institute for multidisciplinary research (RS), Funded by The NATO Science for Peace and Security (SPS) Programme. (2018-2019).
4. **Making concrete green – customized concrete structures optimized for long-term loadings.** Cooperation with Ruhr University Bochum and Ss. Cyril and Mehtodius University in Skopje (2018).
5. **Energy and environmentally efficient resource use in the concrete construction industry.** Bilateral cooperation project with University of Lisbon (2018–2019).
6. **Fiber reinforced alkali activated concrete (properties and selected durability aspects).** Multilateral project with Brno University of Technology and Technical University Vienna (2017–2018).
7. COST Action TU 1301: **NORM for Building Materials** (2014-2017).
8. **Recycled aggregate and fly ash concrete: Economic and technologic study—from down cycling to urban ecology.** Joint Research SCOPES Project with ETH Zürich (2013-2016).
9. **Utilization of by-products and recycled waste materials in concrete composites in the scope of sustainable construction development in Serbia: investigation and environmental assessment of possible application.** Ministry for Education, Science and Technology, Republic of Serbia (2013 – 2020).

Selected publications

Peer-reviewed Journal articles (h-index 10, citation 471, 01/2024 Scopus)

1. **Dragas J.,** Marinkovic S., Ignjatović I., Tosic N., Kokovic V. Flexural behaviour and ultimate bending capacity of high-volume fly ash reinforced concrete beams. *Engineering Structures*, 277 (2023) 115446. [M21]. <https://doi.org/10.1016/j.engstruct.2022.115446>
2. Ildiko M., Poletanovic B., **Dragas J.,** Carevic V., Ignjatovic I., Komljenovic M. The Influence of Accelerated Carbonation on Physical and Mechanical Properties of Hemp-Fibre-Reinforced Alkali-Activated Fly Ash and Fly Ash/Slag Mortar. *Polymers* 14 (2022) 1799. [M21]. <https://doi.org/10.3390/polym14091799>
3. Tošić N., Pecić N., Mauro P., Antonio M., Lluís T., **Dragas J.** Extension of the ζ -method for calculating deflections of two-way slabs based on linear elastic finite element analysis. *Structural Concrete* 22 (2021) 1652-1670. [M22]. <https://doi.org/10.1002/suco.202000558>
4. Marinkovic S., Carević V., **Dragas J.** (2021) The role of service life in Life Cycle Assessment of concrete structures. *Journal of Cleaner Production*. 290 (2021) 125610. [M21a] <https://doi.org/10.1016/j.jclepro.2020.125610>
5. Poletanovic, B., Dragas, J., Ignjatovic, I., Komljenovic, M., Merta, I. Physical and mechanical properties of hemp fibre reinforced alkali-activated fly ash and fly ash/slag mortars. *Construction and Building Materials*, 259 (2020), 119677. [M21a]. <https://doi.org/10.1016/j.conbuildmat.2020.119677>
6. Stojanović G., Radovanović M., Krstić D., Ignjatović I., **Dragas J.,** Carević V. (2019) Determination of pH in powdered concrete samples or in suspension. *Applied Sciences*. 9 (16), pp.3257. DOI: 10.3390/app9163257 [M22]
7. Carević V., Ignjatović I., **Dragas J.** Model for practical carbonation depth prediction for high volume fly ash concrete and recycled aggregate concrete. *Construction and Building Materials*. 2019; 213, 194-208 [M21a]. <https://doi.org/10.1016/j.conbuildmat.2019.03.267>
8. Tosic N., Marinkovic S., Pecic N., Ignjatovic I., **Dragas J.** (2018) Long-term behaviour of reinforced beams made with natural or recycled aggregate concrete and high-volume fly ash concrete. *Construction and Building Materials*. 176 (), pp.344-358. [M21a] <https://doi.org/10.1016/j.conbuildmat.2018.05.002>
9. Marinkovic S., **Dragas J.,** Ignjatovic I., Tosic N. (2017) Environmental assessment of green concretes for structural use. *Journal of Cleaner Production*. 154 (), pp.633-649. [M21a] <https://doi.org/10.1016/j.jclepro.2017.04.015>
10. Nuccetelli C., Trevisi R., Ignjatovic I., **Dragas J.** (2017) Alkali-activated concrete with Serbian fly ash and its radiological impact. *Journal of Environmental Radioactivity*. 168 (), pp.30-37. [M22] <https://doi.org/10.1016/j.jenvrad.2016.09.002>
11. Ignjatovic I., Sas Z., **Dragas J.,** Somlai J., Kovacs T. (2017) Radiological and material characterization of high volume fly ash concrete. *Journal of Environmental Radioactivity*. 168 (), pp.38-45. [M22] <https://doi.org/10.1016/j.jenvrad.2016.06.021>
12. **Dragas J.,** Ignjatovic I., Tosic N., Marinkovic S. (2016) Mechanical and time-dependent properties of high-volume fly ash concrete for structural use. *Magazine of Concrete Research*. 68(12), pp.632-645. [M22] <https://doi.org/10.1680/jmacr.15.00384>



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Selected publications

Book chapters

1. Marinković S., **Dragas J.** (2018) Fly ash. In: Rafat Siddique and Paulo Cachim (eds.) Waste and Supplementary Cementitious Materials in Concrete. Characterisation, Properties and Applications. Woodhead Publishing Series in Civil and Structural Engineering, pp.325-360. [M13] doi: 10.1016/B978-0-08-102156-9.00011-0

Textbooks

1. Masovic S., Tanasic N., **Dragas J.** (2017) *Praktikum za vežbe iz betonskih mostova*. Akademska misao, Univerzitet u Beogradu, Građevinski fakultet, Beograd.

Other

- The Association of Structural Engineers of Serbia Award for PhD Thesis, 2020.
- The Serbian **Chamber of Commerce Award for best PhD Thesis** in 2018/2019.
- Invited lecturer in “**The Cambridge Tradition**” summer school 03.07.-03.08.2019., Cambridge, UK.
- Study visit at TU Wien, Faculty of Civil Engineering, Institute of Material Technology, Building Physics, and Building Ecology Research Unit of Building Materials and Technology – Multilateral scientific and technological cooperation in the Danube region, 2018.
- Member of the Serbian Association for Earthquake Engineering – SAE
- Member of the Executive Committee of Milutin Milankovic Association
- Member of the Serbia Green Building Council
- Member of the Serbian Demolition Association
- Lecturer in the program of Continuing education at Faculty of Civil Engineering, University of Belgrade
- Experience in structural design of mid-rise and high-rise reinforced concrete buildings, industrial halls, sport arenas and bridges