

Svitlana Shekhorkina

Date of birth: 28.08.1987

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ACADEMIC BACKGROUND

Prydniprovskaya State Academy of Civil Engineering and Architecture, (PSACEA), Dnipro

Doctoral thesis on the development scientific bases and methods of calculation of hybrid timber-reinforced multi-storey buildings. Manuscript, 2020. Thesis for the scientific degree of Doctor of Technical Sciences in specialty 05.23.01 «Building constructions, buildings and structures» (19 – Architecture and Civil Engineering).

Ph.D. thesis on the development of the rational design of low-rise floating buildings. Manuscript, 2013. Thesis for the scientific degree of Candidate (Ph.D.) of Technical Sciences in specialty 05.23.01 – «Building constructions, buildings and structures».

Corresponding member of the Academy of Construction of Ukraine, 2019.

WORK EXPERIENCE

Prydniprovskaya State Academy of Civil Engineering and Architecture, (PSACEA), Dnipro

Professor

2022 – present

Department of reinforced concrete and masonry structures, PSACEA, Dnipro

Teaching: fundamentals on the behavior of structural concrete and practical skills in the methods of design the reinforced concrete and masonry structures, applications of the various types of structural members in building systems, CAD systems and BIM in reinforced concrete structures design, methods of assessment the technical state and strengthening of reinforced concrete and masonry structures.

Associate Professor

2013 – 2021

Department of reinforced concrete and masonry structures, PSACEA, Dnipro

Teaching: fundamentals on the structural concrete and practical skills in the methods of design the reinforced concrete and masonry structures, applications of the various types of structural members in building systems, CAD systems in reinforced concrete structures design, methods of assessment the technical state and strengthening of reinforced concrete and masonry structures.

Assistant Professor

2011 – 2013

Department of reinforced concrete and masonry structures, PSACEA, Dnipro

Teaching: fundamentals of reinforced concrete structures design, computer aided design systems.

PROFESSIONAL EXPERTISE:

Key researcher in scientific research projects financed by the Ministry of Education and Science of Ukraine.

Member of the Subcommittee on Timber structures of Technical Committee on building constructions of the Ministry of Regional Development and Construction of Ukraine.

Designer of projects of the strengthening of reinforced concrete, masonry and steel structures.

Developer of structural design documentation for reinforced concrete and steel structures.

PROFESSIONAL INTERNSHIP:

2018 – 2019 Team member InStep Project. International Sustainable Engineering Practices (www.instep.cab.sk)

2020 – present Team member Horizon 2020 Precept Project (<https://www.precept-project.eu/>)

SCIENTIFIC EXPERIENCE

RESEARCH INTERESTS:

Resource-efficient and environmental friendly structures

Hybrid timber-reinforced concrete structures

Green construction

Sustainable design of buildings and structures

Carbon footprint of buildings and structures

PUBLICATIONS:

1. Adegov O., Shekhorkina S., Babenko M., Lyahovetska-Tokareva M., Kudryavcev O. Smart-Readiness Assessment of a Complex Residential Building in Ukraine. *Slovak Journal of Civil Engineering*. 2022. Vol.30 (2). P.1-11. URL: <https://doi.org/10.2478/sjce-2022-0009>.
2. Shekhorkina S., Butska O., Nikiforova T., Makhinko M. Investigating the strength and deformability of the node that connects precast slabs and monolithic joists in a flat precast-monolithic flooring slab. *Eastern-European Journal of Enterprise Technologies*. 2019. Vol. 4, № 1 (100). P. 14–25. URL: <https://doi.org/10.15587/1729-4061.2019.174476>
3. Shekhorkina S., Kesariisky A., Makhinko M., Nikiforova T., Savytskyi O. Experimental Investigation and FEM Modeling of Glued Timber Connections with Slotted-In Steel Plates. *Slovak Journal of Civil Engineering*. 2019. Vol. 27 (4). P. 18-23. URL: <https://doi.org/10.2478/sjce-2019-0027>
4. Shekhorkina S., Savytskyi M., Nikiforova T., Shliakhov K., Myslytska A. Design of the composite timber-reinforced concrete bending elements considering nonlinear behaviour of the connection. *Eastern-European Journal of Enterprise Technologies*. 2020. Vol. 5 (107). P. 14–21. URL: <https://doi.org/10.15587/1729-4061.2020.200527>.
5. Shekhorkina S., Savytskyi M., Yurchenko Y., Koval O. A methodology for carbon footprint assessment of buildings. *Environmental Problems*. Lviv, 2020. Vol. 5, № 3. P. 174–178. URL: <https://doi.org/10.23939/ep2020.03.174>.
6. Shekhorkina S. Yev., Adil Jabbar Abbas, Nikiforova T. D. Investigation of the stress-strain state of hybrid timber-reinforced concrete multi-storey buildings. *Bulletin of Prydniprov's'ka State Academy of Civil Engineering and Architecture*. Dnipro, 2020. № 5. C. 176-181. URL: <http://visnyk.pgasa.dp.ua/article/viewFile/215919/216094>
7. Shekhorkina S., Shliakhov K., Sopilniak A. Experimental investigation of load-bearing capacity and deflections of full-scale glued laminated timber beams. *Proceedings of Odessa Polytechnic University*. Odesa, 2020. Issue 2 (61). P. 5–11. URL: <https://pratsi.op.edu.ua/app/webroot/articles/1602237832.pdf>
8. Shekhorkina S. Yev. Assessment of the carbon footprint of multi-storey hybrid timber-reinforced concrete building. *Scientific Bulletin of Civil Engineering*. Kharkiv, 2020. № 3 (101). C. 121-127. URL: https://vestnik-construction.com.ua/images/pdf/3_101_2020/19.pdf.

PROFESSIONAL PROFILE

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<https://www.scopus.com/authid/detail.uri?authorId=57215410989>

<https://publons.com/researcher/4737443/svitlana-shekhorkina/>

LINGUISTIC COMPETENCIES

- Ukrainian (native speaker)
- Russian (native speaker)
- English (advanced)