

Koval Olena

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ACADEMIC BACKGROUND

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

Ph.D. thesis on energy efficiency of low-rise residential buildings of architectural constructive systems. Manuscript, 2012. Thesis for a Candidate (Ph.D). Degree in Technical Studies. Programme 05.23.01 «Building Constructions, Buildings and Structures»

Corresponding member of the Academy of Construction of Ukraine, 2012

WORK EXPERIENCE

Public enterprise «State Scientific-Research Institute of Building Structures», Kyiv

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

Director of the Institute of Innovation Technologies in Construction

2008 – present

PSACEA's Energy Innovation Hub Manager

Associate Professor

2012 – present

Department of reinforced concrete and masonry structures, PSACEA, Dnipro

Teaching: energy performance of buildings, energy efficiency in the building sector, energy efficiency and retrofit for older and traditional buildings, energy is used in every stage of building life cycle, zero energy and passive building modelling

PROFESSIONAL EXPERTISE:

Certified designer and expert in the field of energy saving

Official regional representative in the Dnipropetrovsk region

Member of an expert group for the development and implementation of educational programs on the reduction of energy consumption.

Corresponding member of the Academy of Construction of Ukraine,

The academic advisor of the International Academy of Engineering; a

Member of the Technical Committee on Energy efficiency of buildings and structures of the Ministry of Regional Development and construction of Ukraine

Co-author of the specific energy saving projects in construction

PROFESSIONAL INTERNSHIP:

2016 Internship on «Measuring Sustainability in Construction», Brandenburg University of Technology Cottbus-Senftenberg, Germany

2018 Internship on «Green Building», Slovak University of Technology in Bratislava, Slovak Republic

2019 Training on «Thermographische Gebaudeanalyse», Deutsche Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ), Feldafing, Germany

2019 – 2020 Project Energy Innovation Hub – a platform to train qualified specialists in the field of energy efficiency as part of the «Professional Qualification Component» of the «Energy Efficiency Reform in Ukraine», Deutsche Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ, Germany) & Federal Ministry of Economic Cooperation and Development of Germany (BMZ, Germany) & NGO «School of Energy Efficiency» (Ukraine), http://see.org.ua/wp-content/uploads/2021/01/Final-report_Short_ukr-en.pdf

2020 Training on «Qualification and Vocational Training in the Energy Efficiency (EE) Sector». Vienna, Austria

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

2021 Training on «Energy Efficiency Training and Auditing Project in Ukraine», National Fund for Environmental Protection and Water Management (NFOŚiGW, Poland) & Deutsche Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ, Germany)

SCIENTIFIC EXPERIENCE

RESEARCH INTERESTS:

Microclimate Parameters in the Residential Building

Energy performance of buildings

Nearly Zero Emission Buildings

Building physics

Heating, ventilation and air conditioning

PUBLICATIONS:

1. Yurchenko Yev., KuznetsovVal., Radkevich A., Koval O., Skrzyniarz M., Kruczek W., Kamil M., Mroczkowski Ł. / Comprehensive Study of the Microclimate Parameters in the Residential Building // Journal of KONBiN , 2021. Vol. 51, No. 3. Pp 87-96. <https://sciendo.com/article/10.2478/jok-2021-0036>

2. Shekhorkina S., Savytskyi M., Yurchenko Yev., Koval O. / Analysis of the environmental impact of construction by assessing the carbon footprint of buildings // Environmental Problems, 2020. Vol. 5, No. 3. Pp.174-178. (in Ukrainian) <https://science.lpnu.ua/ep/all-volumes-and-issues/volume-5-number-3-2020/analysis-environmental-impact-construction>

3. Kolokhov V.V., Adehov O.V. , Yurchenko Yev.L., Koval O.O., Gavryluk S.V. / Improving energy efficiency of constructive solutions for joints of prefabricated reinforced concrete structures // Physical Metallurgy and Heat Treatment of Metals, 2022. Vol. 1, No. 1 (96). Pp. 32-39. (in Ukrainian) <http://mtom.pgasa.dp.ua/article/view/258270>

4. Yurchenko Y. L., Koval O. O., Pipa V. V., Adegov A. V., Kovtun K. A. / The results of the energy audit of the administrative building // Innovative lifecycle technology of housing and civil, industrial and

transportation purposes, 2017. No. 100. Pp. 170-175 (in Russian)/
<http://smm.pgasa.dp.ua/article/view/114865>

5. Lyachovetska-Tokareva M.M., Yurchenko Y. L., Koval O. O. / The role of the microclimate system in buildings' thermal renovation // Abstracts of the XIX International Scientific and Practical Conference «Innovative Technologies in Construction, Civil Engineering and Architecture» Pp. 87-89. (in Ukrainian)
https://pgasa.dp.ua/wp-content/uploads/2022/08/Abstracts_ITCCEA2020.pdf

6. Holovaty V. D., Yurchenko Yev. L., Koval O. O., Mamon C. A. / The analysis of heat engineering parameters of building's thermal protection // Bulletin of Prydniprov'ska State Academy of Civil Engineering and Architecture, 2018. No 1. Pp. 68-73 (in Ukrainian).
<http://visnyk.pgasa.dp.ua/issue/view/8552>

7. Sustainable housing and human settlement: Monograph. Editors: Nikolaienko S., Kulikov P., Pshinko O., Savytskyi M., Radkevych A., Unchik S., Dukat S., Yurchenko Y., Babenko M., Koval O. Under the general editorship Savytskyi M. Dnipro – Bratislava: SHEE «Prydniprov'ska State Academy of Civil Engineering and Architecture» – Slovak University of Technology in Bratislava, 2018. 263 p.
<https://doi.org/10.15802/978-966-323-182-2>,
<http://eadnurt.diit.edu.ua/jspui/handle/123456789/10581>

PROFESSIONAL PROFILE

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<https://www.webofscience.com/wos/author/record/ABC-7368-2021>

<https://aea.org.ua/members/koval-olena-13/>

LINGUISTIC COMPETENCIES

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