

II International Conference «Civil, Industrial and Urban Construction 2025»

CONFERENCE PROGRAM

April 2, 2025

St. Petersburg



Scientific Committee:

- 1. Marina Petrochenko Director of the Civil Engineering Institute, PhD, SPbPU (Russia)
- 2. Galina Kozinets Director of the Higher School of Hydrotechnical and Power Engineering, D.Sc. (Eng.), SPbPU (Russia)
- 3. Yuri Lazarev Director of the Higher School of Industrial, Civil and Road Construction, D.Sc. (Eng.), SPbPU (Russia)
- 4. Andrei Andreev Director of the Higher School of Technosphere Safety, PhD, SPbPU (Russia)
- 5. Margarita Perkova Director of the Higher School of Design and Architecture, Doctor of Architecture, SPbPU (Russia)
- 6. Maya Uspenskaya Professor of the Higher School of Industrial, Civil and Road Construction, D.Sc. (Eng.), SPbPU (Russia)
- 7. Vladimir Lalin Professor of the Higher School of Industrial, Civil and Road Construction, D.Sc. (Eng.), SPbPU (Russia)
- 8. Natalya Politaeva Professor of the Higher School of Hydraulic and Energy Construction, D.Sc. (Eng.), SPbPU (Russia)
- 9. Vladimir Rybakov Associate Professor of the Higher School of Industrial, Civil and Road Construction, D.Sc. (Eng.), SPbPU (Russia)
- 10. Viktor Elistratov Professor of the Higher School of Hydraulic and Energy Construction, D.Sc. (Eng.), SPbPU (Russia)
- 11. Oleg Zaitsev Professor of the Department of Infrastructure Energy Systems, D.Sc. (Eng.), Southwestern State University (Russia)
- 12. Sergey Kornienko Head of the Department of "Architecture of Buildings and Structures", D.Sc. (Eng.), Volgograd State Technical University (Russia)
- 13. Nikita Fomin Director of the Institute of Construction and Architecture, Head of the Department of Industrial, PhD, Associate Professor, Civil Construction and Real Estate Expertise of the Ural Federal University (Russia)
- 14. Olga Golushkova, Dean of the Civil Engineering Faculty, PhD, Assoc. Prof., Belarusian-Russian University (Republic of Belarus)
- 15. Li Zhihua, Vice Director of Office of International Affairs, Professor of School of Environmental and Municipal Engineering, Xi'an University of Architecture and Technology (China)
- 16. Li Xiaolong, Executive Dean of College of Urban Development and Modern Transportation, Professor of Urban Planning, Xi'an University of Architecture and Technology (China)
- 17. Emil Akkoziev, Professor of the Department of Non-traditional and Renewable Energy Sources, D.Sc. (Eng.), Kyrgyz-Russian Slavic University named after B. N. Yeltsin (Kyrgyzstan)

- 18. Galina Frolova, Head of the Department of Water Resources and Engineering Disciplines, PhD, Assoc. Prof., Kyrgyz-Russian Slavic University named after B. N. Yeltsin (Kyrgyzstan)
- 19. Muradulla Mukhammadiev, Professor of the Department of Hydraulics and Hydropower Engineering, D.Sc. (Eng.), Tashkent state technical University named after Islam Karimov (Uzbekistan)
- 20. Mukhlis Gadzhiev, Professor, Head of the Department of Building Constructions, D.Sc. (Eng.), Azerbaijan University of Architecture and Construction (Azerbaijan)
- 21. Elgiz Gasanov, Acting Dean of the Faculty of Water Management and Engineering Communication Systems, PhD, Assoc. Prof., Azerbaijan University of Architecture and Construction (Azerbaijan)
- 22. Sine Diakité, Professor, Director of the Higher Institute of Architecture and Urban Planning (Guinea Republic)
- 23. Esaii Daou, Professor, Rector of the University of Segou (Mali)
- 24. Bezzazi Boudjeme, Professor, Rector of Tahri Mohammed University (Algeria)

Organizing Committee:

- 1. Marina Petrochenko Director of the Civil Engineering Institute
- 2. Andrei Andreev Director of the Higher School of Technosphere Safety
- 3. Galina Kozinets Director of the Higher School Hydrotechnical and Power Engineering
- 4. Yuri Lazarev Director of the Higher School of Industrial, Civil and Road Construction
- 5. Margarita Perkova Director of the Higher School of Design and Architecture
- 6. Mikhail Romanov Associate Professor of the Higher School Hydrotechnical and Power Engineering
- 7. Issa Togo Associate Professor of the Higher School Hydrotechnical and Power Engineering
- 8. Tatiana Koryakovtseva Associate Professor of the Higher School of Hydrotechnical and Power Engineering
- 9. Dmitrii Zotov Leading Programmer of the Higher School of Hydrotechnical and Power Engineering
- 10. Ekaterina Linnik Assistant of the Higher School of Industrial, Civil and Road Construction, Editor-in-Chief Editorial Board of the "Engineering and Construction Journal"
- 11. Anna Zanina Senior Lecturer of the Higher School of Industrial, Civil and Road Construction
- 12. Alexander Panfilov. Associate Professor, Higher School of Hydrotechnical and Power Engineering
- 13. Oleg Stolyarov Associate Professor, Higher School of Hydrotechnical and Power Engineering
- 14. Olga Gamayunova Associate Professor, Higher School of Industrial, Civil and Road Construction
- 15. Evgeniya Zavodnova Senior Lecturer, Higher School of Industrial, Civil and Road Construction
- 16. Natalia Bokovaya Lead Engineer, Higher School of Industrial, Civil and Road Construction
- 17. Daniil Zanin. Programmer, Higher School of Industrial, Civil and Road Construction

II International Conference «Civil, Industrial and Urban Construction - 2025»

Responsible for the section: Tatiana Koryakovtseva, PhD, Associate Professor

Moderators: Marina Petrochenko, PhD, Director of the Civil Engineering Institute; Mikhail Romanov, PhD, Associate Professor; Issa Togo, PhD, Associate Professor; Anna Dontsova, Assistant

Date, time and place: April 2, 2025, beginning 10:00 (Moscow time), room 411, Hydrobuilding – 2

Registration of participants starts at **9:00 (Moscow time)**Remote connection for participants **09:30 (Moscow time)**

10:00	WELCOMING SPEECHES
	Yuri Fomin, Vice-Rector for Research of Peter the Great St. Petersburg Polytechnic University
	Marina Petrochenko, Director of the Civil Engineering Institute
	Elgiz Hasanov, Acting Dean of the Faculty of Water Management and Engineering Communication Systems, Azerbaijan University of Architecture and Construction
	Olga Golushkova, (online) Dean of the Civil Engineering Faculty of the Belarusian-Russian University
	Hongzhe Pan (online)
10:15	Identifying Urban River Pollution Sources from Wet-Weather Discharges Using an Integrated Deep Learning and Data Assimilation Approach
	China, Nanjing, Hohai University
10:30	Yaning Wang (online)
	Can water level regulation of reservoirs in southern China effectively mitigate the risk of sudden black water pollution?
	China, Nanjing, Hohai University
10:45	Li Junyuan (online)
	Characterization of changes in soil microbial communities during nitrate groundwater irrigation
	China, School of Water and Environment, Chang'an University

11:00	Luo Pingping (online)
	Urban 2D Hydrodynamic Modelling for Extreme Rainfall Based on GPU and CPU
	China, School of Water and Environment, Chang'an University
11:15	Zhinhua Li (online)
	Development and Application of Bio-Ecological Coupling Technology Based on Microalgal-Bacterial Symbiosis System
	China, School of Environmental and Municipal Engineering, Xi'an University of Architecture and Technology
	Muradulla Mukhammadiev, Victor Elistratov (online)
11:30	Development of hydropower complexes in Uzbekistan
11:50	Uzbekistan, Tashkent, Tashkent State Technical University Russia, StPetersburg, Peter the Great StPetersburg Polytechnic University
	Elena Afanasyeva (online)
11:45	Verification of the Ritz method for discrete approximation of displacements
	St Petersburg State University of Architecture and Civil Engineering
	Amenah Hasan Felaih (online)
12:00	Earthquake Resistance Systems and Global Design Strategies for Highway Bridges
10	Iraq, Baghdad,University of Thi Qar
	Tatyana Khlebtsova (online)
12:15	Construction Study of the Rheological Properties of Concrete Mixtures Using Additives—Modifiers
	Russia, Kaliningrad, Immanuel Kant Baltic Federal University
	Benoudjafer Ibtissam (online)
12:30	When the recycled materials using for thermal insulation and enhanced energy efficiency in residential building located in hot arid region
	Algeria, Béchar, Tahri Mohamed University
	Nabil Bella (online)
12:45	Geotechnical and environmental Modelisation of Coal Waste in Road Construction
	Algeria, Béchar, Tahri Mohamed University
	Yacouba Daou (online)
/	
13:00	Volumetric stress state with stress features. Evaluation of its strength

	Samake Mamoutou (online)	ė
13:15	Adoption of modern irrigation systems in Sahel region	
	Mali, University Hamed Baba (Bamako)	

Break 30 minutes (13:30-14:00)

14:00	Valeriya Lapshina
	Assessment of the Comprehensive Safety of a Construction Site at the Stage of Development of a Construction Master Plan
	Russia, StPetersburg, Peter the Great StPetersburg Polytechnic University
14:15	Lunis Gallyamov
	Model for Increasing the Efficiency of Resource and Calendar Planning for the Construction of Residential Buildings
	Russia, Kazan, Kazan State University of Architecture and Engineering
14:30	Artem Shitokhin
	Quality Management of Design and Working Documentation using Artificial Intelligence
	Russia, StPetersburg, LLC "QUALITY ENGINEERING"
	Elgiz Hasanov
14:45	On the stability and durability of concrete structures used in coastal marine protection structures
	Azerbaijan University of Architecture and Construction
15:00	Galina Kozinets
	The research of the safety of hydraulic engineering structure
	Russia, StPetersburg, Peter the Great StPetersburg Polytechnic University
	Pavel Kozinets
15:15	Calculation of Response Spectra of Concrete Damps
	Russia, StPetersburg, Peter the Great StPetersburg Polytechnic University
15:30	Leonid Yakunin
	Study of the Processes of Formation and Treatment of Surface Wastewater from University Campuses
	Russia, StPetersburg, Peter the Great StPetersburg Polytechnic University
	•

15:45	Kirill Zubarev (online)
	Temperature and Humidity Conditions of Building Envelopes
	Russia, Moscow, Moscow State University of Civil Engineering, RUDN University, Research Institute of Construction Physics of the Russian Academy of Architecture and Construction Sciences
16:00	Sergey Chuikin (online)
	Heat Transfer during the Flow of a Thin Liquid Film on a Horizontal Plate under the Action of Shear Forces from the Air Flow
	Russia, Voronezh, Voronezh State Technical University
	Oleg Zaitsev
16:15	Autonomous life support systems in residential complexes with limited energy supply
	Russia, Kursk, Southwestern State University
	Natalia Rydalina (online)
16:30	Study of Heat Transfer Parameters in Heat Exchangers with Porous Intensifiers
	Russia, Tyumen, Tyumen Industrial University
	Sergey Kornienko
16:45	Bioclimatic Analysis of Livestock Buildings in the Summertime
10	Russia, Volgograd, Volgograd State Technical University
	Vitaly Savvateev
17:00	New Design and Technological Solutions for Waterproofing Working Joints of Concreting Using Metal Waterstops
	Russia, Yekaterinburg, Ural Federal University named after B.N. Yeltsin
17:15	Musa Abubakar Abdullahi
	The Potential of Plastic Fiber-Reinforced 3D Printed Concrete in Energy- Efficient Construction
	Russia, StPetersburg, Peter the Great StPetersburg Polytechnic University

Discussion and summary of the conference (17:30-17:45)