



## PROGRAM

International Scientific and Practical Conference on:

**“Modern trends in architecture and construction: energy efficiency, energy saving, BIM technologies, problems of urban environment”**

**Date:** April 10-12, 2019

**Location:** Kazakhstan, Almaty, 28 K.Ryskulbekov Street, KazGASA

**Objective:** to discuss current issues in the field of architecture and construction, their connection with modern trends of energy saving and energy efficiency, use of BIM technologies and solution of planning urban environment.

### **Day 1 April 10 - (Wednesday) 2019 - Plenary meeting**

International experts from Germany, scientists of scientific research institutes from Russia, Uzbekistan, Kyrgyzstan, Kazakhstan, university professors, Association of apartment owners' cooperative and editorial board of “Owner’s and entrepreneur’s Bulletin of Housing and Communal Services” will take part at Plenary meeting.

#### **Conference opening:**

Opening and welcome speech from **Kussainov Amirlan Aidarbekovich**, President of KazGASA, Doctor of Technical Sciences, Academician

Welcome speech from Prof. Dr.-Ing. **Armin Just**, Prorector for Study and Teaching, Professorship for Constructional Engineering, EBZ Business School GmbH, Germany

#### **Reports:**

1. **Prof. Dr.-Ing. Armin Just**, Prorector for Study and Teaching, Professorship for Constructional Engineering, EBZ Business School GmbH, Germany.  
“Strategies for energy efficient refurbishment of residential building stock”.
2. **Frank Belzer**, Planning and Construction Department/ Agency of Structural Engineering, City of Nuremberg, Germany.  
“Nuremberg - urban development and structural engineering”.
3. **U.T. Begaliyev**, Doctor of Technical Sciences, Professor (Kyrgyzstan), **Svetlana Nikolic-Brzev**, Professor of British Columbia University, Canada, President of Serbian Association for Earthquake Engineering.  
“Designing and construction of seismic retrofit and energy efficiency of school buildings”.
4. **E.M. Baitenov**, Doctor of Architecture, **G.A. Isabaev**, PhD in Architecture, IEC (KazGASA), Kazakhstan.  
“The use of techniques of Kazakh folk architecture in modern energy-efficient architecture (using the objects of architectural bureau at KazGASA as an example)”.
5. **Prof. Dr.-Ing. Michael Prytula**, University of Applied Sciences Potsdam, Germany.

“Energy and Resource Management as part of an integrated sustainable strategy in Munich”.

**6. Christian Rust**, Senior BIM & FM Consulting Manager, NavVis GmbH, Germany.

“BIM and the digital twin – From draft to building operation”

**7. Dr. Lina Uzsilaityte-Schulte**, Senior Expert Energy-efficient Buildings, Deutsche Energie-Agentur GmbH (dena), Germany.

“German energy efficiency policy in buildings” (German: Deutsche Energieeffizienz Politik in Gebäuden).

**8. A.D.Kayumov**, Doctor of Technical Sciences, Professor; **R.M. Khudaykulov**, PhD, R.Zh. Khakimova, senior lecturer of TIPSiEAD (Tashkent, Uzbekistan).

“Justification of calculated characteristic of saline soils mound of ground cover”

## **Day 2 - April 11 (Thursday) 2019 - Conference work by sections**

### **Section 1 – auditorium 219**

#### *Problems and prospects of construction industry development: designing, construction and operation of buildings and structures*

Chairman of section - Bessimbayev Erik Turashevich,  
Dr. of Technical Sciences, Academic Professor

1. **V.A. Lapin**, PhD in Technical Sciences, Corresponding Member of NIA RK and MIA, KazNIISA, Kazakhstan.

“Problems of application and development of seismic insulating constructive schemes in the cities of the Republic of Kazakhstan”.

2. **I.N. Dyusembayev**, PhD in Technical Sciences, Associate Professor, **A. Donets**, KazGASA, Kazakhstan.

“The use of BIM-technologies in concept “smart city” and automation processes”.

3. **I.M. Polyakova**, PhD in Technical Sciences, Associate Professor, KazGASA, Kazakhstan.

“The potential of using BIM technologies in creating social objects for disabled people”.

4. **Christian Rust**, Senior BIM & FM Consulting Manager, NavVis GmbH

“BIM & Information in the city”, Germany.

5. **V.A. Khomyakov**, Doctor of Technical Sciences, Associate Professor, **U. Konstantinova**, KazGASA, Kazakhstan.

“Problems of air environment of the cities in Kazakhstan being built up with high-rise buildings”.

6. **Z.E. Kabzhan, A. Nurgaliyev**, KazGASA, Kazakhstan.

“The Design and build procurement system and BIM”.

7. **K.D. Toybayev**, Doctor of Technical Sciences, Academic Professor, **G.T. Kasabekova**, KazGASA, Kazakhstan.

“Technical and ecological basis of water-saving technologies”.

8. **N.K. Kulmanova**, Doctor of Technical Sciences, Professor, **R.Zh. Tuleushova**, senior lecturer of Caspian Public University, Kazakhstan.

“Historical waste of mineral raw materials of the Republic of Kazakhstan - raw materials for refractories at welding joints of steel rails in metro and on railway transport”.

### **Section 2 - auditorium 544**

#### *Current issues of architecture and urban planning*

Chairman of section - Gludinova Mekhirbanu Bekrimzhanovna,  
Doctor of Technical Sciences, Associate Professor

1. **G.A. Isabayev**, PhD in Architecture, Associate Professor, KazGASA, Kazakhstan.

“The author's development of energy-efficient houses for northern and central regions of the Republic of Kazakhstan”.

2. **A.S. Galimzhanova**, Doctor of Architecture, Associate Professor, **M.B. Gludinova**, Doctor of Architecture, Associate Professor, KazGASA, **Kh.Kh.Truspekova**, PhD in Arts, Zhurgenev KazNAI, Kazakhstan.

“The context of “place identity” in the architecture of Western Kazakhstan”.

3. **N.Zh.Kozbagarova**, Doctor of Architecture, Academic Professor, KazGASA, Kazakhstan.

“The formation of sensory environment in landscape architecture”.

4. **G.S. Abdrasilova**, Doctor of Architecture, Academic Professor, **E.T. Murzagaliyeva**, KazGASA, Kazakhstan.

“Khoja Ahmed Yassawi Mausoleum is as a cultural, historical and architectural phenomenon”.

5. **Frank Belzer**, Planning and Construction Department/ Agency of Structural Engineering, City of Nuremberg, Германия.

«Nuremberg - urban renewal and operative challenges»

6. **Larisa Shrekkenbach**, Project Manager IVO, Berlin, Germany.

«Experience of eastern Germany in modernization of a residential fund».

“The formation principles of artificial light environment of pedestrian spaces in modern city”.

7. **L.T. Nurkusheva**, Doctor of Architecture, Academic Professor, KazGASA, Kazakhstan.

“The designing structure of environmental objects in the direction of ecological design”.

8. **E.E. Usembayeva**, KazGASA, Kazakhstan.

“Interactive installations in urban environment”.

### **Section 3 - auditorium 344**

#### ***Energy saving in housing complex, energy-efficient technologies and products in green construction***

Chairman of section - Kolesnikova Inna Vladimirovna,  
Doctor of Technical Sciences, Academic Professor

1. **A.T. Akhmedova**, Doctor of Architecture, Academic Professor, KazGASA, Kazakhstan.

“Experience in using energy-saving technologies in the reconstruction of existing housing fund in Almaty in the framework of the diploma project at design department of KazGASA”.

2. **I.V. Kolesnikova**, Doctor of Technical Sciences, Academic Professor, **A. Kanbabina**, KazGASA, Kazakhstan.

“Self-compacting concrete with using local raw materials for the production of reinforced concrete structures”.

3. **Prof. Dr.-Ing. Michael Prytula**, University of Applied Sciences Potsdam, Germany.

«Sustainable neighbourhood development in the age of digitalization (the example "das-neue-gartenfeld" in Berlin)».

4. **Prof. Prof. Dr.-Ing. Armin Just**, Prorector for Study and Teaching, Professorship for Constructional Engineering, EBZ Business School GmbH., Germany.

«Strategies for planning efficient buildings».

5. **Dr. Lina Uzsilaityte-Schulte**, Senior Expert Energy-efficient Buildings, Deutsche Energie-Agentur GmbH (dena), Германия.

«German building energy efficiency policy».

6. **Sivachenko L.A.**, BRU, Belarus, **G.M. Abdukalikova**, **G.M. Utepbergenova L.M.**, Gumilev ENU, Kazakhstan.

“Energy-efficient spring devices for joint processes of deep compaction and mechanical activation of concrete mixtures”.

7. **Zh. Sharipov**, K. Satpaev KazNRTU, **K.K. Alimova**, **I.R. Sabitbek**, KazNII PiSA “Problems of energy saving and energy efficiency in construction sector”.

8. **Kalbagayeva E.O.**, Leading Specialist, Scientific Research Institute «Almatygenplan».

"Energy efficiency of the existing housing stock".

## Section 4 - auditorium 340

### *Modern trends and prospects for the development of education in architecture, construction, design*

Chairman of section - Takenova Zhanar Sarsenbayevna, dean of DGED

1. **G.R. Iskhodjanova**, PhD in Architecture, **U.A. Altynbekova**, KazGASA, Kazakhstan.  
“Methodical aspects of educational programs in the training specialists in BIM design”.
2. **E. Supotaeva**, PhD in Philological Sciences, Associate Professor KAO (Kyrgyzstan), **B.A. Abilova**, PhD in Pedagogical Sciences, Associate Professor, **Sadykanova S.Kh.**, KazGASA, Kazakhstan.  
“Modern Strategies of Teaching Russian”
3. **G.K. Ibrayshina**, PhD in Arts, Associate Professor, KazGASA, Kazakhstan.  
“Main trends in women's fashion of 2018-2019”.
4. **R.Kh.Kabilova**, PhD in philosophical sciences, Associate Professor, KazGASA, Kazakhstan.  
“Architecture of Kazakhstan in International space on the basis of new technologies: philosophy of synthesis”.
5. **L.N. Kassymova**, PhD in Sociological sciences, Associate Professor, KazGASA, Kazakhstan.  
“Problems of Urban science in Kazakhstan: Sociological Reflection”.
6. **A.A. Kurmankozhaeva**, PhD in Information sciences, Associate Professor, KazGASA, Kazakhstan.  
“Modern optimization methods: genetic algorithms”.
7. **Mangazina Zh.R.**, KazGASA, Kazakhstan.  
“Peculiarities of teaching foreign language regardless of the specific conditions of teaching”.
8. **Massanov E.Zh.**, PhD, Associate Professor, KazGASA, Kazakhstan.  
“Modern semiological analysis of the text of city”.

### Conference Regulations:

#### 10.04.2019

- 9<sup>00</sup>-9<sup>30</sup> - Registration of conference participants, in the lobby on the 3<sup>rd</sup> floor of SJS
- 9<sup>30</sup>-11<sup>00</sup> - Plenary meeting, Hall of Academic Council
- 11<sup>00</sup>-11<sup>30</sup> - Coffee break, foyer on the 2<sup>nd</sup> floor, MAB
- 11<sup>30</sup>-13<sup>00</sup> - Plenary meeting
- 13<sup>00</sup>-14<sup>00</sup> - Dinner
- 14<sup>00</sup>-15<sup>30</sup> - Plenary meeting
- 15<sup>30</sup>-16<sup>00</sup> - Coffee break, foyer on the 2<sup>nd</sup> floor, MAB
- 16<sup>00</sup>-17<sup>00</sup> - Plenary meeting

#### 11.04.2019

- 9<sup>00</sup>-9<sup>30</sup> - Registration of conference participants by sections
- 9<sup>30</sup>-11<sup>00</sup> - Section work (219, 544, 344, 340)
- 11<sup>00</sup>-11<sup>30</sup> - Coffee break, foyer on the 2<sup>nd</sup> floor, MAB
- 11<sup>30</sup>-13<sup>00</sup> - Section work
- 13<sup>00</sup>-14<sup>00</sup> - Dinner
- 14<sup>00</sup>-15<sup>30</sup> - Section work
- 15<sup>30</sup>-16<sup>00</sup> - Coffee break, foyer on the 2<sup>nd</sup> floor, MAB
- 16<sup>00</sup>-17<sup>00</sup> - The results of conference (reports of the Chairmen of sections)

#### 12.04.2019

- 09:30 - 11:30 Workshop with participants from Germany (8 persons) and the representatives of KasGASA. Discussion of future projects

## Information about the organizers



Kazakh Leading Academy of Architecture and Civil Engineering is a leading institution of higher education in Kazakhstan, which provides training specialists in the field of architecture, design, construction, production of building materials and products, engineering systems, wood processing technology, geodesy and cartography, economics and management.

**The mission of KazGASA** is to give students the opportunity to get education at all levels, prepare highly intelligent individuals with a broad outlook and they will be able to find their place in society and in a rapidly changing world.



**PRO HOUSE** - professional housing management in Kazakhstan and Uzbekistan

The project is carried out under the aegis of European Union.

Coordinator of PRO HOUSE Project – Initiative of Housing Management in Eastern Europe (IWO), Berlin Germany.



The main objective of three-year project is to expand opportunities for the companies of small and medium-sized business in the sector of housing management in Kazakhstan and Uzbekistan. There are also such tasks as increasing professionalism, establishing cooperation between European, Kazakh and Uzbek organizations, the discovery of organizational and institutional capacities of private companies that deal with housing and energy efficiency in buildings.



EBZ Business School is a University of Applied Sciences of real estate management and housing located in Bochum, Germany. It is a non-profit institution with around 70 employees and more than 1000 students. As one of the leading

institutions of higher education for the real estate and housing sector in Germany, it aims at enhancing the state of research and knowledge in these fields and at preparing talented students for their career. Particular emphasis is placed on individual mentoring, practical relevance of studies and excellent quality of teaching. Website: <https://www.ebz-business-school.de/>



National chamber of entrepreneurs of the republic of Kazakhstan “Atameken” is a non-commercial organization. It was created to strengthen the negotiating power of business with the Government of the Republic of Kazakhstan and government agencies.

The Chamber of Entrepreneurs represents the interests of small, medium and large business, encompassing all areas of entrepreneurship, including domestic and foreign trade. The main task of “Atameken” is to protect the rights and interests of business and provide wide coverage and involvement of all entrepreneurs in the process of forming legislative and other regulatory rules for business operations.