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INTERNATIONAL ASSOCIATION OF EXPERTS
ON EARTHQUAKE ENGINEERING

IAEEE

ЭЛАРАЛЫК СЕЙСМОТУРУШТУУ КУРУЛУШ
БОЮНЧА ЭКСПЕРТТЕРДИН АССОЦИАЦИЯСЫ

INTERNATIONAL ASSOCIATION OF EXPERTS ON EARTHQUAKE ENGINEERING
ЭЛАРАЛЫК СЕЙСМОТУРУШТУУ КУРУЛУШ БОЮНЧА ЭКСПЕРТТЕРДИН АССОЦИАЦИЯСЫ
МЕЖДУНАРОДНАЯ АССОЦИАЦИЯ ЭКСПЕРТОВ ПО СЕЙСМОСТОЙКОМУ СТРОИТЕЛЬСТВУ

HYATT REGENCY

PROGRAM

IV INTERNATIONAL SCIENTIFIC & PRACTICAL
CONFERENCE ON EARTHQUAKE ENGINEERING

Kyrgyz Republic Bishkek 3-5 April 2023

**INTERNATIONAL ASSOCIATION OF EXPERTS
ON EARTHQUAKE ENGINEERING**

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**МЕЖДУНАРОДНАЯ АССОЦИАЦИЯ ЭКСПЕРТОВ
ПО СЕЙСМОСТОЙКОМУ СТРОИТЕЛЬСТВУ**

PROGRAM

IV International Scientific and Practical Conference on Earthquake Engineering

CONFERENCE WORK REGULATION

Date, time (GMT+6, Bishkek) and venue

April 3 - online and offline format in English and Russian with simultaneous translation from 13:00 to 17:00, Hyatt Regency Hotel, Bishkek, Kyrgyzstan

April 4 - online format from 13:00 to 18:00

April 5 - offline format from 10:00 to 13:00, IntUIT large assembly hall, 1/17 Ankara Street, Bishkek, Kyrgyzstan

Speech and presentation time

Welcome speeches and short messages – **3-5 minutes**

Key papers – **15 minutes**

Thematic papers – **10 minutes**

The duration of presentations includes time to provide answers for audience's questions

The allotted time for asking a question is no more than 1 minute, if the (additional) time for answers is left after the presentation

Round Table Meeting

Each participant of the meeting will receive an individual invitation to the round table

12:00 – 13:00 Participant's Registration

April 3, 2023 – online and offline

[13:00 – 17:00 Conference ID for online connection: 812 0057 8852, password: 79 22 87](#)

13:00 – 13:30 – Grand Opening Ceremony - IV International Scientific and Practical Conference on Earthquake Engineering

Moderators:

Akymbek Abdykalykov A. – Conference Co-Chairman, Doctor of Technical Sciences, Professor, State Prize Laureate of the Kyrgyz Republic on Science and Technology, IAEEE Presidium Honorary Member

Ulugbek Begaliev T. – Conference Co-Chairman, Doctor of Technical Sciences, IntUIT Rector and Professor, IAEEE President

Welcome speeches:

- *Jogorku Kenesh of the Kyrgyz Republic;*
- *Ministry of Emergency Situation of the Kyrgyz Republic;*
- *State Agency on Architecture, Construction, Housing and Communal Services under the Cabinet of Ministers of the Kyrgyz Republic;*
- *World Bank Office in the Kyrgyz Republic;*
- *Conference Organizers;*

13:30 – 14:45 Key papers FIRST session “EXPERIMENTAL AND THEORETICAL STUDIES ON THE SEISMIC RESISTANCE OF STRUCTURES”

Moderators:

Akymbek Abdykalykov A., Doctor of Technical Sciences, Professor, State Prize Laureate of the Kyrgyz Republic on Science and Technology, IAEEE Presidium Honorary Member

Marat Abdybaliev K., Candidate of Technical Sciences, CEO – Promproekt JCS, IAEEE Presidium Honorary Member

Invited paper

13:30 – 14:00 Dr. Svetlana Brzev, Adjunct Professor – University of British Columbia, Canada, President - Serbian Association for Earthquake Engineering (SUZI-SAEE), Serbia - Design Requirements for Ductile Seismic Behavior of Reinforced Concrete Frame Structures

Key papers:

14:00 – 14:15 Shamil Khakimov A., Candidate of Technical Sciences, Professor, State-Prize Laureate of the Republic of Uzbekistan, Laboratory Head - ToshUyjoyLITI JSC, Uzbekistan - *Practice of design and construction of civil buildings in seismic regions of Uzbekistan (current state and development prospects)*

14:15 – 14:30 Eraly Shokbarov M., Candidate of Technical Sciences, Managing Director and Zhasulan Omarov A., Candidate of Technical Sciences, Laboratory Head – Kazakh Scientific-Research and Design Institute of Construction and Architecture JSC (KazNIISA), Kazakhstan – *Vibrational dynamical testing in the Republic of Kazakhstan*

14:30 – 14:45 Aleksander Bubis A., Candidate of Technical Sciences, Deputy Head - Center for Earthquake Resistance Studies - “Scientific-Research Center “Construction”, Central Scientific-Research Institute of Building Structures n.a. V.A. Kucherenko (TSNIISK), Vice-President - Russian Association for Earthquake Engineering and Protection against Natural and Manmade Hazards (RAEE), Russia - *Experimental studies on seismic resistance of structures*

14:45 – 15:00 *Coffee-Break*

15:00 – 17:00 Key papers SECOND session “SEISMIC RISK AND HAZARD ASSESSMENT. CONSTRUCTION AND DESIGN TECHNOLOGIES OF BUILDINGS AND STRUCTURES”

Moderators:

Marat Abdybaliev K., Candidate of Technical Sciences, CEO – Promproekt JCS, IAEEE Presidium Honorary Member

Aleksander Bubis A., Candidate of Technical Sciences, RAEE Vice-President

Key papers:

15:00 – 15:15 Kanat Abdrakhmatov E. - Doctor of Geological and Mineralogical Sciences, Professor, Corresponding Member and President - National Academy of Sciences (NAS) of the Kyrgyz Republic, Director - Institute of Seismology of the NAS KR - *Seismic zoning of Kyrgyzstan based on Probabilistic Seismic Hazard Analysis (PSHA) – a balance between safety and economic efficiency*

15:15 – 15:30 Bolot Moldobekov D. - Candidate of Geological and Mineralogical Sciences, Co-Director - Central-Asian Institute for Applied Geosciences (CAIAG), Sheishenaly Usupaev E., Doctor of Geological and Mineralogical Sciences, Professor, Kyrgyz Republic – *Comprehensive Seismological Research and the Early Warning System Development on the territory of the Kyrgyz Republic*

15:30 – 15:45 Vladimir Shkatov P., CEO - Allbau Software GmbH, Berlin Germany – *Seismic Resistance Structures in Allplan - BIM from Germany. Examples of the International projects. BIM - expensive or profitable?*

15:45 – 15:50 *Cooperation Agreement signing between the Allbau Software GmbH, Berlin Germany and the International University of Innovation Technologies, Kyrgyz Republic*

15:50 – 16:05 Eraly Shokbarov M., Candidate of Technical Sciences, Managing Director – KazNIISA JSC, Zhasulan Omarov A., Candidate of Technical Sciences, Laboratory Head –

KazNIISA JSC, Kazakhstan – *Design of high-rise buildings in seismic regions of the Republic of Kazakhstan*

16:05 – 16:20 Ashat Abdykadyrov, CEO - Seido Systems JSC TM Karkas.KG, Kyrgyz Republic

16:20 – 16:35 Thanuja Ranawaka, BScEng, MSc, PhD, MIEAust, CPEng, NER, RPEQ, Structural Engineer, Scottsdale Construction Systems, New Zealand - *Bracing options in the LGS Industry*

16:35 – 16:50 Igor Salmin A., Atlant Anker Systems LLP, Kazakhstan - *Strengthening of soils to increase seismic resistance*

16:50 – 17:00 *Awarding Ceremony of the IAEEE medals for contribution to the earthquake engineering development*

17:00 – *Conference's first day completion*

April 4, 2023 – online

09:30 – 12:00

Round Table “Design and Construction of High-Rise Buildings”

Participants are invited individually (IAEEE Full Members)

[13:00 – 18:00 Conference ID for online connection: 812 0057 8852, password: 79 22 87](#)

13:00 – 14:15 FIRST plenary session “SEISMIC SAFETY. EARTHQUAKE LESSONS”

Moderators:

Shamil Khakimov A., Candidate of Technical Sciences, Laboratory Head - ToshUyjoyLITI JSC, State-Prize Laureate of the Republic of Uzbekistan

Zhasulan Omarov A., Candidate of Technical Sciences, Laboratory Head - KazNIISA JSC

Key papers:

13:00 – 13:15 Mark Klyachko A., Candidate of Technical Sciences, Professor, Chairman – RADAR ANO, Russia - *Operative assessment of the intensity and disaster parameters of the Kahramanmaras earthquake*

13:15 – 13:30 Felix Aptikaev F., Doctor of Geological and Mineralogical Sciences, Schmidt Institute of Physics of the Earth – Russian Academy of Sciences, Russia - *Initial data for calculation the seismic resistance of high-rise buildings*

13:30 – 13:45 Pulod Aminzoda, Candidate of Technical Sciences, Director – Institute of Geology, Earthquake Engineering and Seismology of the National Academy of Science of Tajikistan, Tajikistan - *Comparative Analysis of Structure Response in Calculations Based on Normative Spectra and Spectra of Probabilistic Seismic Hazard Assessment*

13:45 – 14:00 Mirken Abakanov S., Doctor of Technical Sciences, Professor, Kazakhstan - *Consequences of strong earthquakes that occurred in Armenia and Turkey*

14:00 – 14:15 Aleksei Kolesnikov V., Technical Director - LIRA Soft LLC, Russia - *Linear and Nonlinear Acceleration Spectra of Real Earthquakes*

14:15 – 14:20 – *break time*

14:20 – 15:40 SECOND plenary session “INNOVATION TECHNOLOGIES AND TRENDS ON EARTHQUAKE ENGINEERING”

Moderators:

Eraly Shokbarov M. - Candidate of Engineering Sciences, Honorary Civil Engineer, Managing Director - KazNIISA JSC, IAEEE Presidium Honorary Member

Daniyar Abdykalykov D. - IAEEE Managing Coordinator

14:20 – 14:30 Akymbek Abdykalykov A., Doctor of Technical Sciences, Professor, Marat Abdybaliev K., Candidate of Technical Sciences, Professor, Ulugbek Begaliev T., Doctor of Technical Sciences, IntUIT Professor - *Vibration testing as a basis for experimental studies of seismic resistance of structures*

14:30 – 14:40 Zhanybek Mamatov Y., Candidate of Physical and Mathematical Sciences, Professor, Director – Kyrgyz Engineering and Construction Institute n.a. N.Isanov - Kyrgyz State Technical University n.a. I.Razzakov - *Several structural - design features and technology to build houses from local materials*

14:40 – 14:50 Rayimkul Mendekeev A., Doctor of Technical Sciences, Professor, Director – Scientific-Research Institute “Earthquake Engineering”, Kyrgyz Engineering and Construction Institute n.a. N.Isanov - Kyrgyz State Technical University n.a. I.Razzakov - *Challenges and Prospects for Resuming the Operation of Engineering Seismometric Stations in the Kyrgyz Republic*

14:50 – 15:00 Aidarbek Stamov K., IAEEE Engineering Coordinator – *Calculation of seismic resistance factor of existing buildings*

15:00 – 15:10 Daniyar Abdykalykov D., IAEEE Managing Coordinator – *Dynamical Testing of the 2-3 storey buildings made of complex masonry structure*

15:10 – 15:20 Iliya Borel V., Zhanna Ivanova V., Emperor Alexander I St. Petersburg State Transport University, Russia – *BIM-Technologies Application on Earthquake Engineering*

15:20 – 15:30 Abdyjalil Kalykov S., Engineer – GISSIP of the Gosstroy KR - *Theoretical prerequisites for early earthquake prediction taking into account the plate tectonics of the earth's crust and possible ways to solve them*

15:30 – 15:40 Murat Mailyakov U., State Expertise of the Gosstroy KR – *Analysis and experience of using the Seismic Design Code 20-02:2018*

**15:40 – 18:00 THIRD plenary session “SEISMIC ISOLATION SYSTEMS.
ENGINEERING SOLUTIONS AND INNOVATIONS”**

Moderators:

*Erik Besimbaev T. - Doctor of Technical Sciences, Professor, Satbayev University, Kazakhstan
Zhanybek Mamatov Y., Candidate of Physical and Mathematical Sciences, Professor, Director –
Kyrgyz Engineering and Construction Institute n.a. N.Isanov - Kyrgyz State Technical University
n.a. I.Razzakov*

15:40 – 15:50 Erik Besimbaev T., Akmalayev K.A., Dyusembayev I.N., Shadkam A.S., Doctor of Technical Sciences, Professor, Satbayev University, Kazakhstan - *Providing seismic resistance of existing buildings with geotechnical seismic isolation*

15:50 – 16:00 Fahraddin Gabibov G, Doctor of Physical and Technical Sciences, Professor, Laboratory Head – Azerbaijan Scientific-Research Institute of Construction and Architecture (AzNIISA), Azerbaijan - *The use of seismic protection screens in the compaction of subsidence soils with the energy of explosions*

16:00 – 16:10 Fahraddin Gabibov G, Doctor of Physical and Technical Sciences, Professor, Laboratory Head – AzNIISA, Azerbaijan, Eraly Shokbarov M., Candidate of Technical Sciences, Managing Director – KazNIISA, Kazakhstan - *Kinematic foundation with a complex rubber-metal rolling elastic-damper limiter*

16:10 – 16:20 Ilnur Gizyatullin, Head of Sector - Laboratory of Earthquake-Resistant Structures and Innovative Methods of Seismic Protection, Center for Earthquake Resistance Studies - “Scientific-Research Center “Construction”, TSNIISK V.A. Kucherenko, Russia – *Study of change in the buildings dynamic characteristics with seismic isolation systems in the form of rubber-metal supports during operation and its effect on seismic resistance*

16:20 – 16:30 Beishenbek Ordobaev S., Candidate of Technical Sciences, Professor, Head of Department – KRSU n.a. B.N. Yeltsin, Taalaibek Mambetaliev S., Director - STEER LLC - *Engineering solutions and geology as factors in the seismic risk formation*

16:30 – 16:40 Beishenbek Ordobaev S., Candidate of Technical Sciences, Professor, Head of Department – KRSU n.a. B.N. Yeltsin - *Study of the buildings destruction forms in seismic regions*

16:40 – 16:50 Galina Bogdanova A., Zhanna Ivanova V., Emperor Alexander I St. Petersburg State Transport University, Russia - *Increasing the seismic resistance of high-rise buildings by traditional methods of seismic protection*

16:50 – 17:00 Muhtar Apsemetov Ch., Candidate of Technical Sciences, Professor, Nurbek Osmonkanov A., Kyrgyz Engineering and Construction Institute n.a. N.Isanov - Kyrgyz State Technical University n.a. I.Razzakov – *Seismic Isolation of Beam Bridges*

17:00 – 17:10 Muhtar Tinasilov D., Doctor of Economical Sciences, Professor, Kazakh-Russian Medical University, Rakhim Tinasilov M., Kazakh National University, Kazakhstan – *Providing medical health care during earthquakes*

17:10 – 18:00 *Discussions*

18:00 – *Conference Completion*

April 5, 2023 – offline, 10:00, IntUIT, 1/17 Ankara Street

Seminar on the topic: “**INNOVATIVE DEVELOPMENT VECTORS OF THE CONSTRUCTION INDUSTRY WITH THE HELP OF THE BIM TECHNOLOGIES**. Solutions from Germany for all participants in the construction process - designers, customers, contractors, experts, reinforced concrete factories”, which is organized as part of the IV International Scientific and Practical Conference on Earthquake Engineering in Bishkek, Kyrgyzstan.

Moderators:

Akbermet Matyeva K. – Doctor of Technical Sciences, Professor, Director – Institute of Construction and Innovation Technologies and Vice-Rector on State Language, Innovation and Development IntUIT
Vladimir Shkatov P., CEO - Allbau Software GmbH, Berlin Germany

The seminar aims to show how thought using modern BIM technologies from the Nemetschek Allplan GmbH (Munich/Germany), the entire construction process saves time and financing resources for all its participants.

Company [Allbau Software GmbH](#), Berlin, the general partner of the Nemetschek Allplan GmbH in the CIS countries, is pleased to present localized BIM solutions from Germany, including the design, construction and production of reinforced concrete structures for housing construction and infrastructure facilities.

Allplan – this is:

- [End-to-end design](#) - specialists from all departments are working on the project in a single environment at the same time. Ease of making changes to the project. Accelerating the work, for example, structural engineer on reinforced concrete structures by 3-4 times.
- [Design of bridges, tunnels and hydraulic engineering in Allplan Bridge](#). Parametric modeling, built-in and external structural calculations, connection with calendar planning.
- [Design of precast reinforced concrete products for individual architecture in Allplan Precast](#). Combining the design on reinforced concrete products with production, logistics and economics at the plants of Large-Panel / Reinforced Concrete Structure.
- [Interesting BIM projects in the world and Russia/CIS made in Allplan](#). Buildings and structures from large projects to kindergartens.
- **Cloud integration platform for all participants of the bimplus project**. The customer, contractor, expert, and supplier - all rely on the single model data, coordinating the project development.
- [Automated control of project design solutions in the Allcheck expert system](#). Automation work of the Bureau Head, incoming control of the customer's Project Design and Technical Department, expert.
- [Feasibility study and cost estimates based on the model](#).

The participants will also touch upon the specifics on seismic resistance of construction projects, as well as the economics and sources of the BIM payback, and a round table will be hold. The seminar's time is from 10:00 to 13:00 (duration - 3 hours).

The Allbau Software GmbH, Berlin, organizes the seminar. The papers will be both overview (for managers) and technical (for specialists). Participation in the seminar is free. Seats are limited, please register in advance (at seminar@allbau-software.de or at www.allbau-software.de).



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