

INTERNATIONAL ASSOCIATION OF EXPERTS
ON EARTHQUAKE ENGINEERING

IAEEE

МЕЖДУНАРОДНАЯ АССОЦИАЦИЯ ЭКСПЕРТОВ
ПО СЕЙСМОСТОЙКОМУ СТРОИТЕЛЬСТВУ

PROGRAM

III – International Scientific and Practical Conference on Earthquake Engineering

July 4 – 9, 2022

Bishkek – Issyk-Kul, Kyrgyz Republic, 2022

icee.kg

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1. ABOUT IAEEE

The International Association of Experts on Earthquake Engineering (IAEEE) is a non-profit, non-political organization established by a voluntary association of legal entities.

The IAEEE was established in the summer of 2016 on the basis of a community of interests, mutual support of efforts to assist its members in implementing activities aimed at achieving seismic safety, developing a community of civil engineers, design and construction organizations, scientific-research and educational institutions.

The **IAEEE full members** are the, in the order of membership:

- International University of Innovation Technologies (IntUIT);
- JSC “Kazakh Scientific-Research and Design Institute of Construction and Architecture” (KazNIISA) - the Base Organization of the CIS member-states in the field of Earthquake Engineering (BOSS);
- OJSC “Promproekt” Design Institute;
- Kyrgyz State University of Construction, Transport and Architecture named after N.Isanov (KSUCTA);
- Russian Association for Earthquake Engineering and Protection against Natural and Manmade Hazards (RAEE);
- Regional Alliance for Analysis and Disaster Reduction (RADAR);
- State Institute on Earthquake-Resistant Construction and Engineering Design of Gosstroy KR under the Cabinet of Ministers of the Kyrgyz Republic (GISSIP of Gosstroy KR);
- LLC «Seido Systems» Trade Mark KARKAS KG

2. CONFERENCE GENERAL INFORMATION

The IAEEE holds international scientific-research and practical conferences on earthquake engineering, since 2016, has organized three conferences in 2016, 2018 and 2022.

International conferences are held to discuss, analyze and develop the ways of solutions regarding the challenges and issues related with seismic safety: seismic zoning and micro-zoning, seismic hazard, development of normative and technical or regulatory documentation for the construction of buildings and structures in seismic areas, earthquake engineering of buildings and structures, seismic (earthquake) resistance assessment and improvement, design standards, high-quality modeling and calculation, structural and seismic analysis of construction and engineering facilities under the seismic actions, including engineering inspection (survey) methods and seismic retrofitting of buildings and structures.

Within the framework of the conference - round tables and plenary meetings, the leading experts in the field of earthquake engineering are finding advanced methods and tools for implementing the many set goals and objectives that are set for the IAEEE, including its full members and partners.

Important for the IAEEE is the constant strengthening of the position by holding International Scientific and Practical Conferences on Earthquake Engineering; development of normative and technical or regulatory documents (SNiP or Building Codes, Special Design Criteria, manuals, recommendations and etc.) in the field of seismic safety, earthquake engineering, seismic risk, seismic isolation systems, seismic retrofitting; engineering inspection (survey) methodology and building designs expertise in compliance with the requirements of design standards and earthquake engineering; conducting theoretical research and experimental vibrational dynamic field testing; monitoring and evaluation the behavior of buildings in online regime.

3. CONFERENCE FORMAT, GOALS AND AREAS / TOPICS

Conference format:

leading scientists and specialists with extensive work experience in research, structural and seismic analysis, design of earthquake-resistant buildings and structures from the CIS countries and far abroad, representatives of leading scientific-research institutions, specialists of design organizations, expertise, young researchers, PhD students, master students and students youth of higher education universities are invited to the conference.

Conference goals:

- Expanding the communication and relations of scientists, researchers and specialists in the field of seismic safety of various countries in establishing contacts, experience exchanging of scientific-technical, research and commercial information;
- Creating dialogue and determining development paths in terms of attracting attention to the challenges and issues of seismic safety and earthquake engineering; popularization of engineering-construction and technical education; quality of modelling, calculations, structural and seismic analysis of load-bearing building structures; design, engineering inspection (survey) and retrofitting (strengthening) of buildings and structures;
- Formation of single space for interaction of experts in the field of earthquake engineering to develop effective approaches for improving seismic safety.

SCIENTIFIC-RESEARCH AND PRACTICAL CONFERENCE TOPICS / AREAS

1. Development of normative and technical documentation in the field of earthquake engineering;
2. Maps of seismic zoning and seismic microzoning;
3. Challenges of seismic safety and development paths of earthquake engineering;
4. Features of seismic isolation systems and their development;
5. Design, modelling, calculation and analysis of buildings and structures under seismic actions;
6. Innovative and advanced technologies in the field of earthquake engineering;
7. Seismic risk and seismic vulnerability, reduction of natural and technological effects of earthquakes; earthquake resistance of existing buildings and urban areas;
8. Engineering survey, retrofitting methods, restoration and reconstruction of load bearing building structures;
9. Earthquake resistance of hydraulic, transport and underground engineering structures;
10. Ways to ensure seismic safety of school buildings;
11. Geotechnics, engineering surveys and remote sensing;
12. Special session «EARTHQUAKE INSURANCE».

4. CONFERENCE GENERAL PROGRAM

Conference program includes plenary and thematic papers in breakout sessions, special presentations, advertising information.

5. CONFERENCE VENUE

Conference venue is divided into two parts:

1st part in Bishkek

- meeting of the Base Organization of the CIS member-states in the field of Earthquake Engineering (*participants are invited separately*);
- III ICEE Grand opening (inauguration), plenary papers; awards ceremony; round tables;
- technical tour / excursion;

“Jannat Regency” Hotel

Address: 720060, Kyrgyz Republic, Bishkek, Aaly Tokombaeva street 21/2
Tel.: +996 312 909 750 Mob: +996 555 772 688 Fax: +996 312 911 240
E-mail: jr.reception@jannat.kg Website: jannat.kg/en/regency

2nd part in Issyk-Kul

- breakout session (sectional meetings);
- final plenary session with adoption of the Conference resolution;

“Talisman Village” Hotel

Address: Kyrgyz Republic, village Bosteri, Issyk-Kul
Mob: +996 558 58 88 82 E-mail: talisman_village@bk.ru Website: talisman.kg

6. CONFERENCE ANNOUNCEMENT

- Conference program is available on the IAEEE website (iaeee.kg) and the Conference website (icee.kg);
- Information messages and invitations to participate in the upcoming conference will be send according to the conference organization schedule;
- Prior to the conference, the IAEEE Journal will be published, including materials from the III-International Scientific and Practical Conference on Earthquake Engineering;
- Speakers with research papers will be awarded diplomas;

Attention! Conference will also be held online for participants who will not be able to take part in person (offline).

7. CONFERENCE REGULATION

Working languages: Russian and English (accompanied by simultaneous translation).

PERFORMANCE / PRESENTATION TIME:

- Welcome speeches and short messages - up to 5 minutes;
- Plenary papers - up to 20 minutes;
- Scientific (research) papers in sections - up to 10 minutes.

8. REGISTRATION AND PUBLISHING FEES

Registration fee for local participant – 3 000 KGS for online and offline participation and publication of an article (for online participation: including VAT and transportation fees Bishkek - Issyk-Kul - Bishkek);

Registration fee for foreign participant – 10 000 KGS or in US dollars at the exchange rate on the day of payment for online and offline participation (for online participation: including VAT and transportation fees Bishkek - Issyk-Kul - Bishkek);

Abstracts and texts of scientific (research) papers will be accepted and published in the IAEEE Journal only subject to payment of the registration fee for participation in the conference;

In account of one paid fee, one author (including co-authors);

Cost for participation without a paper (with an obtain of the Conference participant certificate) is 2 000 KGS or in US dollars at the exchange rate on the day of payment;

Cost for publishing articles (without participation) is 5000 KGS or or in US dollars at the exchange rate on the day of payment;

Direct payment for registration to participate in the Conference and payment for publication, receipt of an invoice for payment, it is necessary to send:

If an individual, then full initials as Participant Name/Surname;

If a legal entity, then the organization full name, and Participant Name/Surname.

Conference participants without papers can receive certificates of participation.

The IAEEE Accountant Contacts: **Azharkan Asekovna**,
Mob: +996 707 75 25 57(WhatsApp) E-mail: dajara2562@gmail.com

9. CONFERENCE SCIENTIFIC AND ORGANIZING COMMITTEE

Akymbek Abdykalykov - Conference Co-Chair, Doctor of Technical Sciences, Professor, Rector - KSUCTA n.a. N.Isanov, Chairman - Rectors Board of Universities of the Kyrgyz Republic, Vice-President - International Association of Construction Universities of the CIS countries, Executive Committee Member - Universities Alliance "Silk Road", IAEEE Honorary Presidium Member, State Prize laureate of the Kyrgyz Republic in the field of science and technology

Askatbek Sydykov - Conference Co-Chair, Candidate of Technical Sciences, Director - Institute of Earthquake Resistant-Construction and Engineering Design of the Gosstroy of the Kyrgyz Republic under the Cabinet of Ministers of the Kyrgyz Republic

Begman Kulbaev - Conference Co-Chair, General Director / CEO - JSC "Kazakh Scientific-Research and Design Institute of Construction and Architecture" (KazNIISA), Head - Base Organization of the CIS member-states in the field of Earthquake Engineering (BOSS), Kazakhstan

Ulugbek Begaliev - Conference Chair, Doctor of Technical Sciences, President - IAEEE, Rector - International University of Innovation Technologies (IntUIT), IntUIT Professor

Abduhamit Abduzhabarov - Doctor of Technical Sciences, Professor, Department of Railway Engineering, Tashkent State Transport University, Uzbekistan

Akbermet Matyeva - Doctor of Technical Sciences, Professor, Vice-Rector - State Language, Innovation and Development, Director - Institute of Construction and Innovative Technologies, International University of Innovation Technologies (IntUIT)

Akira Wada - Doctor of Engineering, Professor Emeritus - Tokyo Institute of Technology (TITech) / Structural Engineering Research Center, Japan

Aleksei Kolesnikov - Technical Director - LLC "LIRA Soft", Russia

Alexsander Bubis - Deputy Head - Center for Earthquake Resistance Studies of the Central Scientific- Research Institute of Building Structures n.a. V.A. Kucherenko (TSNIISK) JSC "Scientific-Research Center "Construction", Vice-President - "Russian Association for Earthquake Engineering and Protection from Natural and Manmade Hazards" (RAEE), Member - International Association for the Seismic Response Dynamic Regulation and Seismic Isolation, Russia

Aliy Bespaev - Doctor of Technical Sciences, Professor, Head - Laboratory of Reinforced Concrete Structures, JSC "KazNIISA" Academician - National Engineering Academy of the Republic of Kazakhstan, Kazakhstan

Bairammurat Annamuratov - Deputy Head on Scientific-Research Work – Scientific-Research Institute on Earthquake Engineering of the Ministry of Construction and Architecture of Turkmenistan

Bektur Chukin - Candidate of Technical Sciences, Director - LLC "Scientific-Research and Design Laboratory "Sustainability of Geotechnical Objects"

Bolot Moldobekov - Candidate of Geological and Mineralogical Sciences, Director - Central-Asian Institute for Applied Geosciences (CAIAG)

Eraly Shokbarov - Candidate of Technical Sciences, Managing Director for Production - JSC "KazNIISA", Deputy Chairman - Base Organization of the CIS member-states in the field of Earthquake Engineering (BOSS), Expert - European Committee for Standardization (CEN) TK340 and TK250, National Delegate – International Association of Experts on Earthquake Engineering (IAEE, Japan), Honorary Builder of Kazakhstan, Honorary Professor - KSUCTA n.a. N.Isanov, IAEEE Honorary Presidium Member, Kazakhstan

Erik Besimbaev - Doctor of Technical Sciences, Professor, Department "Construction and construction materials", Institute of Architecture and Construction, Satbayev University, Honorary Professor - International University of Innovation Technologies (IntUIT), Kazakhstan

Fahraddin Gabibov - Doctor of Physical and Technical Sciences, Senior Researcher, Head - Laboratory of Foundations and Soil Mechanics, Azerbaijan Scientific-Research Institute of Construction and Architecture, Azerbaijan

Gennadiy Kosivtsov - Candidate of Technical Sciences, Head - Department of Earthquake Engineering, State Institute of Earthquake Resistant-Construction and Engineering Design of the Gosstroy of the Kyrgyz Republic

Ivan Vedyakov - Doctor of Technical Sciences, Professor, Director - Central Scientific-Research Institute of Building Structures n.a. V.A. Kucherenko (TSNIISK), JSC "Scientific-Research Center "Construction", Head - Laboratory of Steel Structures, President - "Russian Association for Earthquake Engineering and Protection against Natural and Manmade Hazards" (RAEE), Counselor - Russian Academy of Architecture and Construction Sciences (RAACS), Corresponding Member and Academician - Russian Engineering Academy, Honorary Builder of Russia, IAEEE Honorary Presidium Member, Russia

Kanat Abdrakhmatov - Doctor of Geological and Mineralogical Sciences, Professor, Director - Institute of Seismology of the National Academy of Sciences of the Kyrgyz Republic

Kamchybek Kenzhetaev - Candidate of Technical Sciences, Deputy Director - State Institute of Earthquake Resistant- Construction and Engineering Design of the Gosstroy of the Kyrgyz Republic

Kenzhebek Akmalaev - Doctor of Technical Sciences, Professor, Department "Construction and construction materials" / Institute of Architecture and Construction, Satbayev University, Honorary Professor - International University of Innovation Technologies (IntUIT) Kazakhstan

Marat Abdybaliev - Candidate of Technical Sciences, General Director / CEO - OJSC "Promproekt" Design Institute, Member - Scientific-Research and Technical Council of the Gosstroy of the Kyrgyz Republic, IAEEE Honorary Presidium Member

Mark Bresler - Regional Sales Director - GUS & Eastern Europe, MAURER SPS GmbH Germany

Mark Klyachko - Candidate of Technical Sciences, Professor, Chairman - Regional Alliance for Analysis and Disaster Reduction (RADAR), Intergovernmental Commission of the CIS / EAC countries on Earthquake Engineering and Mitigation of Natural and Technological Effects, Member - Interdepartmental Council on Seismology and Earthquake Engineering, Honored Builder of Russia, Russia

Mederbek Omuraliev - Candidate of Geological and Mineralogical Sciences, Head - Laboratory on Seismic Hazard Assessment, Institute of Seismology, National Academy of Sciences of the Kyrgyz Republic

Mirken Abakanov - Doctor of Technical Sciences, Professor, Advisor to the General Director on technical issues - JSC "KazNIISA", Kazakhstan

Mirzakhid Miralimov - Candidate of technical sciences, Associate Professor, Department "Bridges, tunnels and aqueducts", Tashkent Institute for Design, Construction and Operation of Highways", Uzbekistan

Muhamediy Kutuev - Doctor of Technical Sciences, Professor, Head - Department of "Mechanics", Institute of Construction and Technologies, KSUCTA n.a. N.Isanov

Muhtar Apsemetov - Candidate of Technical Sciences, Professor, Department of "Automobile Roads and Railways, Bridges, Tunnels", Institute of Construction and Technologies, KSUCTA n.a. N.Isanov

Mustafa Erdik - Doctor of Engineering, Professor Emeritus of Earthquake Engineering - Bogazici University / Department of Earthquake Engineering, Turkey

Nurzhan Madanbekov - Candidate of Technical Sciences, First Vice-Rector - KSUCTA n.a. N.Isanov

Pulod Aminzoda - Candidate of Technical Sciences, Director - Institute of Geology, Earthquake Engineering and Seismology of the National Academy of Science of Tajikistan

Qarayev Abdi Nazim oglu - Director – Azerbaijan Scientific-Research Institute of Construction and Architecture, Azerbaijan

Rayinkul Mendekeev - Doctor of Technical Sciences, Professor, Department “Operation of Transport and Technological Machines”, Institute of Transport and Ecology, KSUCTA n.a. N.Isanov, Corresponding Member - Engineering Academy of the Kyrgyz Republic

Rustam Akbiev - Candidate of Technical Sciences, Board Chairman - Eurasian SEISMO Association (EASA), Russia

Sagynbek Orunbaev - Candidate of Physical and Technical Sciences, Director - "Kyrgyz Association for the Safety of Large Dams", Director - Regional Institute of Geotechnics, Engineering Surveys and Remote Sensing IAEEE

Shamil Khakimov - Candidate of Technical Sciences, Head - Earthquake Engineering Department of the Tashkent Scientific-Research and Design-Survey Institute of Housing and Civil Engineering (JSC “ToshuyjoyLITI”), Honorary Professor - International University of Innovation Technologies (IntUIT), IAEEE Honorary Presidium Member, State-Prize laureate of the Republic of Uzbekistan, Uzbekistan

Sheishenaly Usupaev - Doctor of Geological and Mineralogical Sciences, Professor, Central-Asian Institute for Applied Geosciences (CAIAG)

Sobirjon Razzakov - Doctor of Technical Sciences, Professor, Deputy – Construction and Technological Faculty, Namangan Engineering and Construction Institute Uzbekistan

Sobit Negmatullaev - General Director / CEO - PMP International Ltd., Academician - Academy of Science of Republic of Tajikistan,

Svetlana Brzev - Doctor of Engineering, Structural and Earthquake Engineering, Adjunct Professor - University of British Columbia (UBC) / Department of Civil Engineering, Visiting Professor - Indian Institute of Technology Gandhinagar, Honorary Professor of International University of Innovation Technologies, Canada-Serbia

Svetlana Uranova - Candidate of Technical Sciences, Senior Engineer - RJC Engineers, Member - Earthquake Engineering Research Institute, 2000 (EERI, USA), Anti-Seismic Systems International Society (ASSISI, Italy), Canada

Tanatkan Abakanov - Doctor of Technical Sciences, Professor, UNESCO Expert on earthquake challenges, Academician – Kazakhstan National Academy of Natural Sciences, Kazakhstan

Tat'yana Belash - Doctor of Technical Sciences, Professor, Head - Department “Buildings”, Emperor Alexander I St. Petersburg State Transport University (PGUPS) Russia

Temir Bolotbek - Doctor of Technical Sciences, Professor, Head – Department of “Building Constructions, Buildings and Structures”, Institute of Construction and Technologies, KSUCTA n.a. N.Isanov

Turatbek Duishenaliev - Doctor of Physical and Mathematical Sciences, Professor, KSTU n.a. I.Razzakov, Honorary Professor – National Research University Moscow Power Engineering Institute (MPEI)

Turatbek Kasymov - Candidate of Technical Sciences, Vice-rector - Educational Work, Director - Institute of Design, Architecture and Textile, International University of Innovation Technologies (IntUIT)

Valentina Kurdyumova - Doctor of Technical Sciences, Professor, Department of “Building Constructions, Buildings and Structures”, Institute of Construction and Technologies, KSUCTA n.a. N.Isanov

Vasiliy Rozhdestvenskiy - Candidate of Physical and Mathematical Sciences, General Director - LLC “Lira Service” Russia

Vladimir Semenov - Doctor of Technical Sciences, Professor, Department “Architecture of Industrial and Civil Buildings”, KRSU n.a. B.N.Yeltsin

Zhakshylyk Kojobaev - Candidate of Technical Sciences, Professor - Kyrgyz-Turkish Manas University (KTU Manas)

Zhanybek Mamatov - Candidate of Physical and Mathematical Sciences, Professor, Director - Institute of Construction and Technologies, Head - Department "Design, Construction of Buildings and Earthquake Engineering", KSUCTA n.a. N.Isanov

Zhasulan Omarov - Candidate of Technical Sciences, Head - Laboratory "Seismic resistance of high-rise buildings" JSC "KazNIISA", National Delegate - International Association on Earthquake Engineering (IAEE, Japan), Kazakhstan

Yuri Nemchinov - Doctor of Technical Sciences, Professor, Director - State Enterprise "State Scientific-Research Institute of Building Constructions" (SE "NIISK"), Ukraine

EXECUTIVE ORGANIZING COMMITTEE

Aidarbek Stamov

Ainura Isakbaeva

Aizada Davletbekova

Ajarkan Duishokoeva

Arstanbek Duisheev

Askhat Abdykadyrov

Bahor Nazarov

Baktygul Kozhomuratova

Bermet Umetalieva

Cholpon Ryspaeva

Daniyar Abdykalykov

Dinara Berdibaeva

Elmira Ashirbaeva

Erkegul Biymyrsaeva

Erlan Korchubay uulu

Imanbek Kazakov

Kanat Kanbolotov

Kiyal Birimkulova

Maksat Sadykov

Melis Kochkonbaev

Nurzatbek Omorov

Rahat Musakov

Temirlan Sheraliev

Temirlan Mitalipov

10. CONFERENCE MAIN PROGRAM

CONFERENCE FIRST PART - Venue: "Jannat Regency" Hotel, Bishkek

July 1 - 4, 2022

- Conference participant's check-in and arrival

July 4, 2022 (Monday)

09:30 - 10:00 - registration of participants of the BOSS meeting and III ICEE

10:00 - 12:00 - session of the Supervisory Board of the Base Organization of the CIS member-states in the field of Earthquake Engineering

12:00 - 13:00 - lunch for the BOSS participants

12:00 - 13:00 - registration of participants of the III ICEE

13:00 - 13:30 - grand opening ceremony of the III International Scientific and Practical Conference on Earthquake Construction

13:30 - 15:00 - plenary sessions

15:00 - 15:30 - teatime

15:30 - 16:50 - plenary sessions

16:50 - 18:10 - plenary sessions

18:10 - 18:30 - ceremony of presenting awards and medals for contribution to the development of earthquake engineering

19:00 - dinner-banquet for the BOSS guests from the GISSIP of Gosstroy KR

July 5, 2022 (Tuesday)

10:00 - 12:00 - breakout sessions

12:00 - 13:00 - lunch + teatime

13:00 - 15:15 - breakout sessions

15:15 - 15:45 - teatime

15:45 - 18:00 - breakout sessions

18:00 - free time

July 6, 2022 (Wednesday)

9:00 - departure for technical excursions/tour from the "Jannat Regency" Hotel

9:00 - 12:00 - technical excursions/tour in Bishkek

12:00 - 13:00 - lunch in field conditions

13:00 - departure to Issyk-Kul from Bishkek, from GISSIP of Gosstroy KR

18:00 - 19:00 - arrival and accommodation at the "Talisman Village" Hotel, village Bosteri, Issyk-Kul

19:00 - 21:00 - dinner-banquet

CONFERENCE SECOND PART

- Venue: "Talisman Village" Hotel, Bosteri village, Issyk-Kul

July 7, 2022 (Thursday)

10:00 - 13:00 - breakout sessions

13:00 - 14:00 - break

14:00 - 16:45 - breakout sessions

16:45 - free time

July 8, 2022 (Friday)

10:00 - 11:00 - round table "Creation of laboratories network for joint experimental research by organizations - IAEEE full members"

11:00 - 12:00 - round table "Cooperation within the framework of the International Association of Experts on Earthquake Engineering"

12:00 - 14:00 - closing ceremony of the III International Scientific and Practical Conference on Earthquake Engineering; summing up and Conference Resolution Adoption

14:00 - free time

July 9-10, 2022 (Saturday and Sunday)

- Conference participant's departure

11. TECHNICAL TOUR

Performance Date: **July 6, 2022 (Wednesday)**

Performance Time: **9:00 - 12:00**

Performance Venue:

- Micro district 12, Bishkek

- Housing estate "Altyn Ordo", Bishkek

- Field for vibrational dynamic testing performance on the territory of a construction organization.

- Experimental site/field for conducting vibrational and dynamic full-scale/in-situ testing on the territory of the GISSIP of Gosstroy KR, Ch. Valikhanov street 2, Bishkek

CONFERENCE DETAILED PROGRAM
(Paper presentations demonstration)

Conference First Part - "Jannat Regency" Hotel, Bishkek

July 4, 2022 (Monday)

10:00 - 12:00 - session of the Supervisory Board of the Base Organization of the CIS member-states in the field of Earthquake Engineering (BOSS)

Session speaker's welcoming words and speeches with paper presentations:

Begman Kulbaev - Head of the Base Organization of the CIS member-states in the field of Earthquake Engineering, JSC "KazNIISA" General Director

Nurtazin Dzhetybaev - Director of the State Agency of Architecture, Construction and Housing-Communal Services under the Cabinet of Ministers of the Kyrgyz Republic
- "Construction industry development in the Kyrgyz Republic"

Askatbek Sydykov - Director of the State Institute of Earthquake-Resistant Construction and Engineering Design of the Gosstroy KR
- "Earthquake Engineering challenges and issues in the Kyrgyz Republic"

Tuna Onur - Seismic Risk Consultant and National Building Code of Canada's Standing Committee on Earthquake Design
- "Development of hazard maps to support seismic resistance in building codes in Central Asia"

Eraly Shokbarov - Deputy Head of the Base Organization of the CIS member-states in the field of Earthquake Engineering, JSC "KazNIISA" Managing Director
- "About the development work of the Unified Codes Model"

Opinions and speeches exchange scientists, researchers and specialists of the CIS countries in the field of earthquake engineering.

Summing up (*Resolution signing*).

Conference First Part Continuation – “Jannat Regency” Hotel

Conference ID for ZOOM: 896 3187 5491, Code: 111

13:00 – 13:30 – grand opening ceremony of the III International Scientific and Practical Conference on Earthquake Construction

Moderators:

Akymbek Abdykalykov - Conference Co-Chair, Doctor of Technical Sciences, Professor, Rector of the KSUCTA n.a. N.Isanov, IAEEE Honorary Presidium Member

Ulugbek Begaliev - Conference Chair, Doctor of Technical Sciences, IntUIT Professor, IAEEE President, IntUIT Rector

Welcoming speeches:

Nurtazin Dzhetybaev – Director of the State Agency of Architecture, Construction and Housing-Communal Services under the Cabinet of Ministers of the Kyrgyz Republic

Vitalyi Kryuchkov – Doctor of Economical Sciences, General Director of the JSC “Scientific-Research Center “Construction, Russia

Ivan Vedyakov - Doctor of Technical Sciences, Professor, Director of the Central Scientific-Research Institute of Building Structures n.a. V.A. Kucherenko (TSNIISK), JSC “Scientific-Research Center “Construction”, President of the “Russian Association for Earthquake Engineering and Protection against Natural and Manmade Hazards” (RAEE), Russia

Begman Kulbaev – JSC “KazNIISA” General Director, BOSS Head, Kazakhstan

Mustafa Erdik - Doctor of Engineering, Professor Emeritus of Earthquake Engineering, Bogazici University, President of the Turkish Earthquake Foundation, Turkey

Shamil Khakimov - Candidate of Engineering Sciences, IAEEE Honorary Presidium Member, Head - Earthquake Engineering Department of the Tashkent Scientific-Research and Design-Survey Institute of Housing and Civil Engineering (JSC “ToshuyjoyLITI”)

Victor Dosenko – President of the International Transport Academy, Russia

Leonid Bogomolov - Doctor of Physical and Mathematical Sciences, Institute of Marine Geology and Geophysics, Far Eastern Branch of the Russian Academy of Sciences, Russia

13:30 – 15:00 Conference ID for ZOOM: 896 3187 5491, Code: 111

SESSION 1 - EARTHQUAKE RESISTANCE OF EXISTING BUILDINGS AND URBAN AREAS

Moderators:

Akymbek Abdykalykov - Doctor of Technical Sciences, Professor, KSUCTA N.Isanov Rector

Ivan Vedyakov - Doctor of Technical Sciences, Professor, Director of the Central Scientific-Research Institute of Building Structures n.a. V.A. Kucherenko (TSNIISK),

13:30 – 13:50 Abdykalykov A., Abdybaliev M., Begaliev U., Kyrgyz Republic - The state or condition of experimental and theoretical research in the field of earthquake engineering

13:50 – 14:10 Moldobekov B., Kyrgyz Republic - Key mitigation measures for strong seismic events

14:10 – 14:30 Svetlana Brzev, Canada - Performance of masonry and reinforced concrete buildings in the recent earthquakes in Albania and Croatia

14:30 – 15:00 Akira Wada, Japan - 50 years' experience of earthquake disaster and next seismic design

15:00 – 15:30 – teatime

15:30 – 16:50 Conference ID for ZOOM: 896 3187 5491, Code: 111

PLENARY SESSION 2 - DEVELOPMENT OF NORMATIVE AND TECHNICAL DOCUMENTATION IN THE FIELD OF EARTHQUAKE ENGINEERING

Moderators:

*Aliy Bespaev, Doctor of Technical Sciences, Professor, JSC "KazNIISA" Head of laboratory
Shamil Khakimov – Candidate of Engineering Sciences, JSC "ToshuyjoyLITI" Head of Department*

15:30 – 15:50 Khakimov Sh., Republic of Uzbekistan - Challenges for Actualization of Certain Provisions of the Seismic Design Codes in the Conditions of Application for New Structural Systems

15:50 – 16:10 Pulod Aminzoda, Republic of Tajikistan - Consistent use of the probabilistic seismic hazard assessment results as a basis for the development of interstate seismic resistance standards

16:10 – 16:30 Shokbarov E., Republic of Kazakhstan - Ensuring seismic safety in the Republic of Kazakhstan

16:30 – 16:50 Bubis A., Russian Federation - List of changes introduced in the SP 14.13330.2018 seismic design code

16:50 – 18:10 Conference ID for ZOOM: 896 3187 5491, Code: 111

PLENARY SPECIAL SESSION 3 - EARTHQUAKE INSURANCE

Moderators:

*Mustafa Erdik - Doctor of Engineering, Professor Emeritus, Bogazici University
Eraly Shokbarov. – Candidate of Engineering Sciences, JSC "KazNIISA" Managing Director*

16:50 – 17:10 Mustafa Erdik, Turkey - From Earthquake Risk to Earthquake Insurance

17:10 – 17:30 Klyachko M., Russian Federation - From seismic prediction to seismic safety

17:30 – 17:50 Sinan Akkar, Turkey - CatMod: A computational platform for earthquake loss modeling of catastrophic events

17:50 – 18:10 Rodkin M., Russian Federation - Insurance Strategies - Dependence on the Type of Damage Distribution Law

18:10 – 18:30

CEREMONY OF PRESENTING AWARDS AND MEDALS FOR CONTRIBUTION TO THE DEVELOPMENT OF EARTHQUAKE ENGINEERING

Moderator – Elmira Ashirbaeva, IAEEE Executive Coordinator

19:00 – dinner-banquet for the BOSS guests from the GISSIP of Gosstroy KR

July 5, 2022 (Tuesday)

10:00 - 12:00 Conference ID for ZOOM: 896 3187 5491, Code: 111

PLENARY SESSION 4 - CHALLENGES OF SEISMIC SAFETY AND DEVELOPMENT PATHS OF EARTHQUAKE ENGINEERING

Moderators:

Erik Besimbaev, Doctor of Technical Sciences, Professor, Satbayev University

*Zhanybek Mamatov, Candidate of Technical Sciences, Professor, KSUCTA n.a. N.Isanov
Director of Institute*

10:00 - 10:15 Shakhzod Takhirov, University of California, Berkeley, USA - Modern and innovative approaches to seismic protection: experimental studies and numerical modeling

10:15 - 10:30 Bespaev A., Republic of Kazakhstan - Surface strengthening of reinforced concrete structures with composite materials

10:30 - 10:45 Gizyatullin I., Russian Federation - Seismic resistance of buildings made of frame-sheathed structures with a moment frame made of cold-formed galvanized steel profiles

10:45 - 11:00 Zeinalov A., Azerbaijan - Accounting for the seismicity of region in the development of stability passports for the Bailov landslide slope of the Baku city

11:00 - 11:15 Akmaliev K., Besimbaev E., Republic of Kazakhstan - Ensuring the seismic resistance of architectural monuments through installing seismic isolation systems

11:15 - 11:30 Omarov Zh., Republic of Kazakhstan - Vibrodynamic testing of a 9-storey precast reinforced concrete large-panel residential building in Tashkent

11:30 - 11:45 Nesterova O., Russian Federation - Setting up a dual-mass seismic or ground motion damper

11:45 - 12:00 Ivanova Zh., Bogdanov G., Rashektaev I., Russian Federation - Application of seismic protection special methods to improve the seismic resistance of existing buildings in the Magadan city

12:00 - 13:00 - break (lunch)

13:00 - 15:15 Conference ID for ZOOM: 896 3187 5491, Code: 111

PLENARY SESSION 5 - DESIGN, MODELLING, CALCULATION AND ANALYSIS OF BUILDINGS AND STRUCTURES UNDER SEISMIC ACTIONS

Moderators:

Askatbek Sydykov, Candidate of Technical Sciences, GISSIP of Gosstroy KR Director

*Alexander Bubis, Deputy Head of the Center for Earthquake Resistance Studies of the Central Scientific-Research Institute of Building Structures n.a. V.A. Kucherenko (TSNIISK) JSC
"Scientific-Research Center "Construction"*

13:00 - 13:15 Kolesnikov A., Russian Federation - Structural analysis features of buildings and structures for seismic actions

13:15 - 13:30 Vodopyanov R., Russian Federation - Approaches to seismic action analysis and their implementation in LIRA-SAPR software

13:30 – 13:45 Abdykalykov A.A., Mamatov Zh.Y., Kozhobaev Zh.Sh., Mamatov S.K., Kyrgyz Republic - Destruction process and damage modeling of low-rise buildings built from local materials

13:45 – 14:00 Apsemetov M., Kyrgyz Republic – Structural analysis features of beam bridges with seismic isolation for seismic actions

14:00 – 14:15 Shaumarov N., Republic of Uzbekistan - Forecast of the technical condition of a four-story residential building after an earthquake. Seismic action analysis by the limit-state method

14:15 – 14:30 Temiraliuly G., Republic of Kazakhstan - Numerical model of the testing masonry sample

14:30 – 14:45 Davronov O., Republic of Uzbekistan - About seismic resistance of buildings with energy efficient fences

14:45 – 15:00 Igor Timchenko, Georgia - Structural seismic design in conditions of topographic complexity

15:00 – 15:15 Sydykov A., Duisheev A., Kanbolotov K., Toktosunov A., Kyrgyz Republic - Use in engineering analysis of a reduction factor of 0.5 to the initial concrete modulus of elasticity for seismic actions

15:15 – 15:45 – teatime

15:45 – 18:00 Conference ID for ZOOM: 896 3187 5491, Code: 111

PLENARY SESSION 6 - GEOTECHNICS, ENGINEERING SURVEYS AND REMOTE SENSING

Moderators:

Leonid Bogomolov, Doctor of Physical and Mathematical Sciences, Institute of Marine Geology and Geophysics, Far Eastern Branch of the Russian Academy of Sciences, Russia

Sagynbek Orunbaev, Candidate of Physical and Mathematical Sciences, Director of the NGO "Kyrgyz Association for the Safety of Large Dams", Director of the Regional Institute of Geotechnics, Engineering Surveys and Remote Sensing IAEEE

15:45 – 16:00 Orunbaev S., Kyrgyz Republic - Dam safety: use of seismic monitoring devices on dams

16:00 – 16:15 Tojiev R., Razzakov S., Yunusaliev E., Abdullaev I., Republic of Uzbekistan - Gas-dynamic detonator for seismic resistance inspection of the operated buildings and structures

16:15 – 16:30 Manshtein Yu., Russian Federation - Electrical exploration modern methods for engineering surveys in the design and operation of buildings and structures on the example of diagnostics of soil dams

16:30 – 16:45 Dosenko V., Dosenko M., Russian Federation - Integrated or complex geographic information systems (GIS) for monitoring, construction and management of transport infrastructure, ensuring reliability

16:45 – 17:00 Gabibov F., Shokarev V., Shokbarov E., Azerbaijan - The use of earthquake energy in the deep compaction of loess settlement loams by hydraulic explosions

17:00 – 17:15 Abdujabarov A., Republic of Uzbekistan - Seismic resistance of arched gallery and determination of avalanche impacts

17:15 – 17:30 Lobodenko I., Fihieva L., Bugaev E., Esenov A., Russian Federation - Accounting for changes in the stress state of buildings and structures under seismic actions and modern vertical movements of the earth's crust at various stages of the NEF
17:30 – 17:45 Mihailov V., Russian Federation - An integrated or complex approach to survey and design of unique buildings
17:45 – 18:00 Orunbaeva S., Kyrgyz Republic - Mountain conditions and relief as a sustainable development of hydraulic structures

18:00 – free time

July 6, 2022 (Wednesday)

9:00 – departure for technical excursions/tour from the “Jannat Regency” Hotel
9:00 – 12:00 – technical excursions/tour in Bishkek
9:15 – 9:45 – technical excursion around the 12th micro district of Bishkek, where the existing seismically isolated buildings with sliding belt systems are located;
10:00 – 11:00 – technical excursion - vibration testing to determine the dynamic parameters of natural oscillations (ground motions) of a 2-storey building made of complex (confined) masonry structure, Altyn-Ordo housing estate, Bishkek;
11:15 – 12:00 – technical excursion - vibration testing of the platform GISSIP of Gosstroy KR, Ch. Valikhanov street 2, Bishkek;
12:00 – 13:00 – lunch in field conditions
13:00 – departure to Issyk-Kul from Bishkek, from GISSIP of Gosstroy KR
18:00 – 19:00 - arrival and accommodation at the “Talisman Village” Hotel, village Bosteri, Issyk-Kul
19:00 – 21:00 – dinner-banquet

Conference Second Part – “Talisman Village” Hotel, Issyk-Kul

July 7, 2022 (Thursday)

10:00 – 13:00 Conference ID for ZOOM: 869 3468 1926, Code: 490722

BREAKOUT SESSION 7 - ENGINEERING SURVEY, RETROFITTING METHODS, RESTORATION AND RECONSTRUCTION OF LOAD-BEARING BUILDING STRUCTURES OF BUILDINGS

Модераторы:

Akbermet Matyeva, Doctor of Technical Sciences, IntUIT Professor, Vice-rector on innovation and development, ISIT IntUIT Director

Zhasulan Omarov, Candidate of Technical Sciences, JSC “KazNIISA” Head of laboratory

10:00 – 10:15 Matyeva A., Mukanbet k. E., Kyrgyz Republic - Innovative solutions for seismic strengthening of buildings and structures
10:15 – 10:30 Marufiy A., Turdzhadieva E., Dzhusuev U., Kyrgyz Republic - Research of parameters that take into account conditions close to the real work of foundation structures

10:30 – 10:45 Melibaev S., Kyrgyz Republic - Experimental study of three-layer precast reinforced concrete large-panels wall for strength, stiffness and crack resistance
10:45 – 11:00 Bekbolotova Zh., Kyrgyz Republic – Challenges and issues for introducing BIM and digital design in Kyrgyzstan
11:00 – 11:15 Ubaidulloev M., Republic of Uzbekistan - Design of buildings and structures taking into account seismic actions in the Republic of Uzbekistan
11:15 – 11:30 Kalykov A., Kyrgyz Republic - Conditions for considering the construction site seismicity depending on the earth route structure
11:30 – 11:45 Ensebekov A., Kyrgyz Republic – Infills influence on the frame stiffness in the design of buildings and structures
11:45 – 12:00 Buzrukov Z., Republic of Uzbekistan - Work interaction of the "building-foundation-ground" system under seismic actions
12:00 – 12:15 Kanbolotov K., Kyrgyz Republic - Seismic risk assessment of the villages of the Orok ayil okmotu adjacent to the Issyk-Ata fault
12:15 – 12:30 Bondarev D., Russian Federation - Dynamic vibration damper TMD CVS to reduce seismic and wind loads on buildings
12:30 – 12:45 Anushenko A., Russian Federation – Structural analysis justification for the use of dynamic vibration damper TMD CVS to ensure dynamic comfort of a unique high-rise building
12:45 – 13:00 Kulzep A., Russian Federation - Comparative operation analysis of the seismic isolation various systems for buildings

13:00 – 14:00 – break

14:00 – 16:45 Conference ID for ZOOM: 869 3468 1926, Code: 490722

BREAKOUT SESSION 8 - INNOVATIVE AND ADVANCED TECHNOLOGIES IN THE FIELD OF EARTHQUAKE ENGINEERING

Moderators:

Kenzhebek Akmalaev, Doctor of Technical Sciences, Professor, Academician of the National Engineering Academy, Republic of Kazakhstan

Fahraddin Gabibov, Doctor of Physical and Technical Sciences, Professor, Azerbaijan Scientific-Research Institute of Construction and Architecture

14:00 – 14:15 Mambetaliev T., Ordobaev B., Kyrgyz Republic - Modern methods of construction in seismically hazardous areas

14:15 – 14:30 Mambetaliev T., Kyrgyz Republic - Engineering solutions and geology as factors in the formation of seismic risk

14:30 – 14:45 Mamatov Zh.Y., Kozhobaev Zh.Sh., Mamatov S.K., Beishev E.B., Kyrgyz Republic - Damage processes of low-rise buildings

14:45 – 15:00 Tinasilov M., Republic of Kazakhstan - Reconstruction and modernization of chemical industrial seismic production

15:00 – 15:15 Sadykov M., Kyrgyz Republic - Experimental determination of the natural (ground motion) frequency of a structure

15:15 – 15:30 Tinassilov R., Republic of Kazakhstan - Experiments and organization of medical and sanitary provision of the population in the aftermath of earthquakes

15:30 – 15:45 Kyshtobaev E., Kyrgyz Republic - Vibrodynamic testing of a building made of light steel thin-walled structures

15:45 – 16:00 Abdykalykov D., Kyrgyz Republic - Experimental determination of the natural oscillations dynamic parameters of buildings made of complex (confined) structures

16:00 – 16:15 Stamov A., Kyrgyz Republic – Structural analysis on the seismic safety coefficient of an existing building

16:15 – 16:30 Abdykadyrov A., Kyrgyz Republic - Experimental studies of nodal interfaces of thin-walled structures in compression

16:30 – 16:45 Kolesnikov A., Russian Federation – Modelling features of seismic isolation systems

16:45 – free time

July 8, 2022 (Friday)

10:00 – 11:00 – round table “Creation of laboratories network for joint experimental research by organizations – IAEEE full members”

Moderators: Shamil Khakimov, Marat Abdybaliev, Zhasulan Omarov, Alexander Bubis

11:00 – 12:00 – round table "Cooperation within the framework of the International Association of Experts on Earthquake Engineering”

Moderators: Ivan Vedyakov, Ulugbek Begaliev, Eraly Shokbarov

12:00 – 14:00 – closing ceremony of the III International Scientific and Practical Conference on Earthquake Engineering; summing up and Conference Resolution Adoption

Moderators: Akymbek Abdykalykov, Ulugbek Begaliev

14:00 – free time

12.SOCIAL EVENTS

*For leisure activities in your free time, at your free choice at will for a fee, **the Talisman Village Hotel** offers sights of Issyk-Kul, Cholpon-Ata.*

1) Hippodrome

An equestrian hippodrome is located on the shore of Lake Issyk-Kul, which is located 270 km from Bishkek. The hippodrome covers 25 hectares of territory and with a total capacity of 10,000 people. The hippodrome is a unique engineering structure, has national and international significance for the country. The III World Nomad Games were held at the hippodrome in 2016, prominent figures, as the President of Turkey, Recep Erdogan, the President of Kazakhstan, Nursultan Nazarbayev, the Hungarian Prime Minister, Viktor Orban and others, took part in the opening ceremony.



2) Cultural Center "Rukh Ordo" named after Ch. Aytmatov

The Cultural Center "Rukh Ordo" (translated as "the Spiritual Center") is an open-air museum located on the shores of Lake Issyk-Kul in Cholpon-Ata city. The complex was built in 2002 and was named in the name of the famous world writer of Kyrgyzstan, Chyngyz Aytmatov. The park includes 10 mini-museums, "Aytmatov's Museum House", "Kyrgyz Art and Culture Hall", "Sayakbay Karalayev's Arbor", "Knowledge Treasure trove" and five white chapels representing world religions, Islam, Catholicism, Orthodoxy, Buddhism and Judaism, characterizing uniqueness in the face of the Almighty God. The complex has dozens of sculptures, artifacts, arts and photo galleries, handicrafts made in different techniques that have been carefully passed from generation to generation. The exposition fund is constantly updated with new and interesting exhibitors. The complex provides with guides for conducting an hour and a half interactive tour to the culture, traditions, history and life of Kyrgyzstan and Kyrgyz people.



3) Museum of Petroglyphs

The Petroglyph Museum (or “Saimaluu Tash” - a stone garden) is located in the open air between the snow-capped mountains and Lake Issyk-Kul. It is an exhibition area that is part of the Issyk-Kul Historical and Cultural Museum-Reserve. The museum has a territory of 42 hectares, where 1,500 stones with ancient cave paintings are presented in the form of scenes of hunting, life and war, some of which are associated with the history of peoples, Scythians and Saks, some have images of a deer describing the legend of the mother of the deer as Bugu Ene. Some artifacts are from 30 cm to 3 m in size, about 4000 years old, relief images can be also found.



13. IAEEE CONTACTS

Address: *Kyrgyz Republic, 720038, Bishkek, micro district Dzhal-29, building 4/1*

Tel. / fax: +996 312 44 99 03

Mob tel. (phone) / WhatsApp:

+996 559 88 87 71, IAEEE President, **Ulugbek Begaliev**

+996 779 14 10 12, Executive Coordinator, **Elmira Ashirbaeva**

+996 776 17 19 71, Manufacturing Coordinator, **Daniyar Abdykalykov**

+996 705 90 89 41, Engineering Coordinator, **Aidarbek Stamov**

E-mail: seismokg@mail.ru