RESOLUTION

III International Scientific and Practical Conference on Earthquake Engineering

Bishkek – Issyk-Kul July 8, 2022

From July 4 to 9, 2022, the International Association of Experts on Earthquake Engineering (IAEEE) held the III International Scientific and Practical Conference on Earthquake Engineering (ICEE) in Bishkek and Issyk-Kul, the Kyrgyz Republic.

The Association’s full members are: from the Kyrgyz Republic: State Institute of Earthquake-Resistant Construction and Engineering Design of the Gosstroy of the Kyrgyz Republic under the Cabinet of Ministers of the Kyrgyz Republic (GISSIP of the Gosstroy KR), Kyrgyz State University of Construction, Transport and Architecture named after N.Isanov (KSUCTA n.a. N.Isanov), Promiproekt, Seido Systems – Trade Mark KARKAS.KG, International University of Innovation Technologies (IntUIT), from the Republic of Kazakhstan: Kazakh Scientific-Research and Design Institute of Construction and Architecture (KazNIISA), from the Russian Federation: Russian Association of Earthquake Engineering and Protection against Natural and Man-made Hazards (RAEE), Regional Alliance for Analysis and Disaster Reduction (RADAR) and with support of the World Bank.

Within the framework of the conference, the first visiting meeting of the Supervisory Board of the Base Organization of the CIS Member States in the field of Earthquake Engineering - KazNIISA was held.

The active participants of the conference were as follows:


From the Republic of Azerbaijan – Azerbaijan Scientific-Research and Design Institute on Construction and Architecture (AzNIISA), GeoEngineering;

From the Republic of Kazakhstan - KazNIISA, Kazakh National Technical University named after. K.I. Satpayev (Satbayev University), LIRALAND_KZ LLP, Institute of Seismology
of the Ministry of Emergency Situations of the Republic of Kazakhstan, Kazakh Leading
Architecture and Civil Engineering Academy, Kazakh-Russian Medical University;

From the Republic of Tajikistan - Institute of Geology, Earthquake Engineering and
Seismology of the National Academy of Sciences of Tajikistan;

From the Republic of Uzbekistan - Tashkent Scientific-Research and Design-Survey
Institute of Housing and Civil Engineering (ToshuyjoyLITI), MASSHTAB, Namangan Civil
Engineering Institute, Yeoju Technical Institute in Tashkent, Tashkent State Transport
University, Samarkand State Architectural and Civil Engineering Institute;

From the Russian Federation – Scientific-Research Center “Construction”, Central
Scientific-Research Institute of Building Structures n.a. V.A. Kucherenko (TSNIISK), Ministry
of Construction and Housing-Communal Services of the Russian Federation (TsNIIP, Ministry
of Construction of Russia), RADAR, NIPIGAS, Emperor Alexander I St. Petersburg State
Transport University, Scientific and Engineering Centre for Nuclear and Radiation Safety
(SECNRS), Institute Hydroproject, CKTI-Vibroseism (CVS), Building Academy of Design,
Expertise and Assessment, Pogrebnyak and Partners, LIRA soft, St. Petersburg State
University of Architecture and Civil Engineering, Institute of Marine Geology and Geophysics of the
Russian Academy of Science, Institute of Earthquake Prediction Theory and Mathematical
Geophysics of the Russian Academy of Science, International Transport Academy,
St. Petersburg Mining University, KB Electrometry, Institute for the Design of Transport

From Georgia: Igor Timchenko, Professor Assistant, Ilia State University; Progresi;

From Belarus: Yanka Kupala State University of Grodno;

Other extra-regional specialists, experts and scientists, researchers are: from Japan: Prof.
Akira Wada, Tokyo Institute of Technology and president of the Structural Engineers World
Congress (SEWC); from Turkey: Prof. Mustafa Erdik, Bogazici University, Dr. Abdulhamid
Ulker, Ulker Engineering Ltd. CEO, Prof. Sinan Akkar, Turk Reinsurance Inc., from Canada:
Prof. Svetlana Brzhev, University of British Columbia, Dr. Tuna Onur, Onur Seemann Consulting
Principal, from the USA: Prof. Shakhzod Takhirov, University of California, Berkeley, from
Germany: Dr. Mark Bresler, Maurer SPS GmbH, Regional Director, Rakhim M. Tinassilov,
Rhenish Friedrich Wilhelm University.

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

The main conference goals were:

- 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 a medium for interaction of experts in the field of earthquake engineering to develop effective approaches for improving seismic safety.

These international scientific and practical conferences in the field of earthquake engineering were previously held twice in 2016 and 2018.

Every year, the IAEVEE conference attracts the attention of an increasing number of leading scientists, researchers and experts from scientific-research and design institutes in the field of earthquake engineering and, construction companies from Kyrgyzstan, as well as from near and far countries.

The conference program included presentation of scientific papers in plenary, sectional and special sessions by prominent scientists, researchers and specialists from the USA, Canada, Japan, Europe (Germany, Turkey, Georgia, Belarus), as well as the CIS (Russia, Kazakhstan, Kyrgyzstan, Uzbekistan, Azerbaijan, Tajikistan), with extensive research and practical experience in the field of earthquake engineering.

As a result of the discussion and considering presented papers and articles, two IAEVEE Journals (Bulletins) were published, as well as round table meetings were held, at which the bilateral agreements signing ceremony on international cooperation in the field of earthquake engineering and cooperation within the framework of the International Association of Experts on Earthquake Engineering was held. The round table meetings also included discussion on specific issues, proposals and recommendations in the field of earthquake engineering and seismic safety, including the establishment of the laboratories network for performing joint and mutually recognized experimental research by organizations – the IAEVEE full members.
According to the results of the work carried out, the conference participants consider it necessary to:

1. Establish an International group of specialists-experts with extensive work and scientific-research experience in the field of earthquake engineering to solve challenges and issues related to seismic safety of the population.

2. Develop, improve and update the building and seismic design codes and regulations of interested participating countries within the framework of the IAEEE and bring them to a single regional standard, taking into account the National applications of each country following the Eurocode model.

3. Expand the circle of the Association members and invite civil engineers, structural and earthquake engineers to cooperate in the field of earthquake engineering on practical aspects.

4. On behalf of the conference and the Association, apply to the National Attestation Commission of the Kyrgyz Republic on the establishment of an Interstate Dissertation Board for the defense of candidate and doctoral dissertations in engineering seismology and earthquake engineering.

5. Conduct joint scientific-research works and publish the results in distinguished peer-reviewed journals.

6. To resume the introduction and implementation of seismic isolation systems with the involvement of prominent scientists and leading specialists from developed countries.

7. Recommend seismologists and geotechnical specialists to apply a unified methodology in the process of developing of the seismic zoning and micro zoning maps.

8. Include earthquake engineering investigations related to the development of earthquake insurance and re-insurance systems in the research agenda of the IAEEE.

9. Announce the projects competition or student graduation works on earthquake engineering. (Note: the competition terms are to be developed and distributed by November 30, 2022 and the results will be announced at the next conference.)

IAEEE President                                      Ulugbek Begaliev
IAEEE Engineering Coordinator                       Aidarbek Stamov