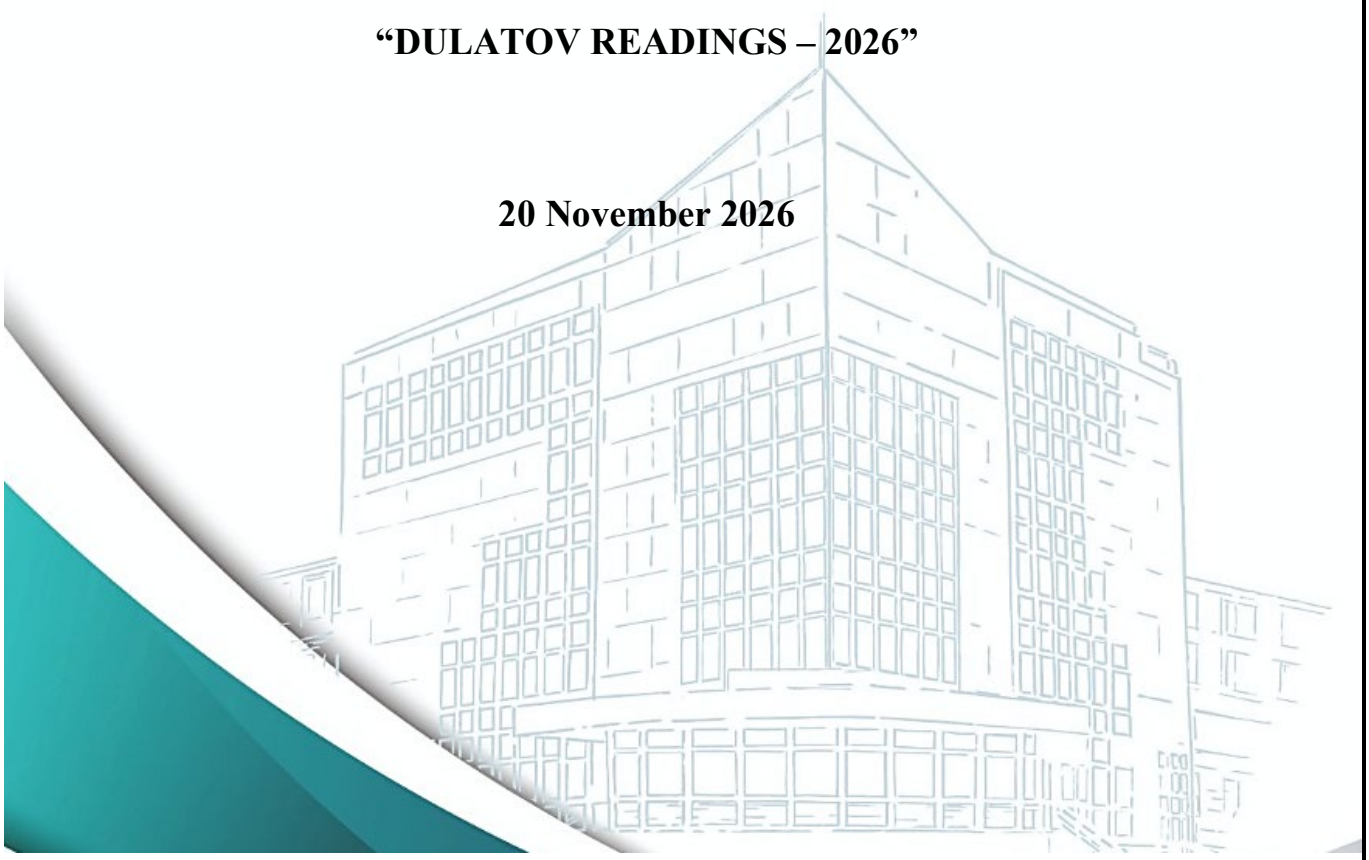
Kostanay Engineering and Economics University named after M. Dulatov

PROGRAMME

XVIII International Scientific and Practical Conference
“Development of Science: New Trends and Innovations”,
dedicated to the 35th anniversary of the Independence of the Republic of Kazakhstan

As part of KEnEU International Week – 2026

“DULATOV READINGS – 2026”



20 November 2026

Kostanay 2026

PROGRAMME
XVIII International Scientific and Practical Conference
"Development of Science: New Trends and Innovations",
dedicated to the 35th anniversary of the Independence of the Republic of Kazakhstan

As part of KInEU International Week – 2026

"DULATOV READINGS – 2026"

Organizer:
Kostanay Engineering and Economics University named after M. Dulatov

Participants:
Faculty members of higher education institutions, researchers from research institutes, college teachers, master's students, postgraduate students and doctoral students, as well as representatives of the business community.

Venue and date:
Kostanay Engineering and Economics University named after M. Dulatov,
59 Chernyshevsky Street.
20 November 2026.

Working languages: Kazakh / Russian / English.

Purpose: to discuss current issues, new trends and innovations in the development of science.

Objectives:
- to discuss current issues, new trends and innovations in the development of science;
- to exchange experience in the field of science development.

Conference sections:
Section 1 – Mirzhakyp Dulatov – poet, writer and public figure;
Section 2 – Power Engineering and Technical Sciences;
Section 3 – Information Technology and Digitalization;
Section 4 – Economic Sciences;
Section 5 – Agricultural Sciences.

CONFERENCE PROGRAMME

Time (Astana time)	
20 November 2026	**Event**
10:00–11:00 Main Assembly Hall	Plenary session of the XVIII International Scientific and Practical Conference “Development of Science: New Trends and Innovations”
11:00–13:00	*Parallel sessions:*
11:00–13:00 As scheduled in the conference programme	Section sessions: Section 1 – Power Engineering and Technical Sciences; Section 2 – Information Technology and Digitalization; Section 3 – Economics and Social Sciences; Section 4 – Agricultural Sciences.
11:00–13:00 Room 304, Main Building	Discussion of the internship programme in Türkiye
13:00–14:00	*Lunch*
14:00–15:30 Main Assembly Hall	Award ceremony for participants of KEnEU International Week 2026 and closing of the XVIII International Scientific and Practical Conference “Development of Science: New Trends and Innovations”

Moderator: Nurgul Kaliyevna Uderbayeva – Vice-Rector for Research, Innovation and Artificial Intelligence at Kostanay Engineering and Economics University named after M. Dulatov.

PLENARY SESSION PROGRAMME

Venue: Main Assembly Hall

10.00-10.10	Welcome address	**Zhuldyz Oryntaykyzy Oshakbayeva** Vice-Rector for Academic Development
10.10-10.20	Biological methods of plant protection in organic agriculture in the Republic of Kazakhstan	**Orynbay Takhirovich Aliyev** Director of the Kostanay Branch of the Kazakh Research Institute of Plant Protection and Quarantine named after Zhazken Zhiyembayev LLP
10.20-10.30	How do digital transformation and ESG affect the competitiveness of production?	**Alimshan Fayzulaev** Ph.D., Director of the ESG Centre, Director of Research, Associate Professor of Finance, Bang College of Business, KIMEP University
10.30-10.40	Application of QGIS to delimiting the seabed of the Caspian Sea between neighbouring states	**Serzh Alexandrovich Lorens** Candidate of Physical and Mathematical Sciences, Associate Professor, Department of Cryptology, L.N. Gumilyov Eurasian National University
10.40-10.50	National values in the works of Mirzhakyp Dulatuly: historical continuity and resonance with contemporary society	**Altyn Konysbayevna Toleuova** Master of Humanities, Kostanay Social and Technical University named after Academician Zulkarnai Aldamzhar
10.50-11.00	Closing of the plenary session	**Nurgul Kaliyevna Uderbayeva** Vice-Rector for Research, Innovation and Artificial Intelligence

SECTION SESSIONS

Time (Astana time)	*Section and moderator*	*Room*
11.05 – 13.00	**Section 1 –** Power Engineering and Technical Sciences **Moderator** – Olga Viktorovna Voitsekhovskaya, Senior Lecturer, Department of Power Engineering and Mechanical Engineering, Kostanay Engineering and Economics University named after M. Dulatov	***Room 302, Main Building***
11.05 – 13.00	**Section 2 –** Information Technology and Digitalization **Moderator** – Mikhail Yuryevich Zarubin, Candidate of Technical Sciences, Professor, Department of Information Technology and Automation, Kostanay Engineering and Economics University named after M. Dulatov	***Library Reading Room***
11.05 – 13.00	**Section 3 –** Economics and Social Sciences **Moderator** – Venera Ravilovna Zarubina, Candidate of Economic Sciences, Professor, Department of Socio-Economic Disciplines, Kostanay Engineering and Economics University named after M. Dulatov	***Room 305, Main Building***
11.05 – 13.00	**Section 4 –** Agricultural Sciences **Moderator** – Daulet Rashidovich Kabdolla, Senior Lecturer, Department of Standardization and Food Technologies, Kostanay Engineering and Economics University named after M. Dulatov	***Room 303, Main Building***

Section 1 – Power Engineering and Technical Sciences – ***Room 302, Main Building***

Moderator: Olga Viktorovna Voitsekhovskaya – Senior Lecturer, Department of Power Engineering and Mechanical Engineering, Kostanay Engineering and Economics University named after M. Dulatov

PAPERS

1. **Paper title:** Opportunities for using alternative automated sources of electrical energy in the regions of Northern Kazakhstan.
   Yuri Vladimirovich Klassen – Candidate of Technical Sciences, Associate Professor, Department of Power Engineering and Mechanical Engineering, Kostanay Engineering and Economics University named after M. Dulatov.
2. **Paper title:** Assessment of technological processes using the criterion of bioenergy efficiency.
   Oleg Aleksandrovich Rostislavov – Senior Lecturer, Master's degree holder, Department of Power Engineering and Mechanical Engineering, Kostanay Engineering and Economics University named after M. Dulatov.
3. **Paper title:** Constitutional foundations and strategic priorities for ensuring the energy security and energy independence of the Republic of Kazakhstan.
   Alena Sergeevna Gorbenko – Senior Lecturer, Master's degree holder, Department of Power Engineering and Mechanical Engineering, Kostanay Engineering and Economics University named after M. Dulatov.
4. **Paper title:** Effective use of the transport potential of the Republic of Kazakhstan in the era of digital rules
   Natalia Alekseevna Kamysheva – Corresponding Member of the National Engineering Academy of the Republic of Kazakhstan, Senior Lecturer, Master of Technical Sciences, Department of Transport and Service, Kostanay Engineering and Economics University named after M. Dulatov.
5. **Paper title:** Features of implementing a quality management system at automotive industry enterprises.
   Zarina Baurzhanovna Tleubayeva – Doctoral student, Senior Lecturer, Department of Standardization and Food Technologies, Kostanay Engineering and Economics University named after M. Dulatov.
6. **Paper title:** Digital twin of the soil thermal regime: verification and prediction of interactions with engineering facilities.
   Alexander Alekseevich Rumyantsev – Candidate of Technical Sciences, Associate Professor, Department of Industrial Thermal Power Engineering, Tyumen Industrial University.
7. **Paper title:** Intelligent methods for diagnosing and improving the reliability of 10–35 kV electrical networks, taking climatic impacts into account.
   Nuredin Maratovi Abashov – second-year Master's student, educational programme 7M07101 "Electric Power Engineering", Akhmet Baitursynuly Kostanay Regional University (academic supervisors: Igor Koshkin, Candidate of

Technical Sciences, Associate Professor; Yuri Klassen, Candidate of Technical Sciences, Associate Professor).

Rauan Bekbulatovich Zharkenov – second-year Master's student, educational programme 7M07101 "Electric Power Engineering", Akhmet Baitursynuly Kostanay Regional University (academic supervisors: Igor Koshkin, Candidate of Technical Sciences, Associate Professor; Yuri Klassen, Candidate of Technical Sciences, Associate Professor).

8. **Paper title:** Improving the energy efficiency of power supply systems at industrial enterprises.

   Kairzhan Meyrambekovich Amantaev – second-year Master's student, "Electric Power Engineering" educational programme, Akhmet Baitursynuly Kostanay Regional University (academic supervisors: Igor Koshkin, Candidate of Technical Sciences, Associate Professor; Yuri Klassen, Candidate of Technical Sciences, Associate Professor).

9. **Paper title:** Assessment of energy savings and payback of variable-frequency drives for grain storage ventilation units, taking capacity and annual operating hours into account.

   Roman Igorevich Ogorodnik – second-year Master's student, "Electric Power Engineering" educational programme, Akhmet Baitursynuly Kostanay Regional University (academic supervisors: Igor Koshkin, Candidate of Technical Sciences, Associate Professor; Yuri Klassen, Candidate of Technical Sciences, Associate Professor).

10. **Paper title:** Study of seasonal changes in electrical loads and operating modes of 10–35 kV distribution networks in the agricultural areas of Kostanay Region.

    Asemgul Serikkyzy Serikova – second-year Master's student, educational programme 7M07101 "Electric Power Engineering", Akhmet Baitursynuly Kostanay Regional University (academic supervisors: Igor Koshkin, Candidate of Technical Sciences, Associate Professor; Yuri Klassen, Candidate of Technical Sciences, Associate Professor).

    Makhabbat Khamitovna Tolegenova – second-year Master's student, educational programme 7M07101 "Electric Power Engineering", Akhmet Baitursynuly Kostanay Regional University (academic supervisors: Igor Koshkin, Candidate of Technical Sciences, Associate Professor; Yuri Klassen, Candidate of Technical Sciences, Associate Professor).

11. **Paper title:** Intelligent classification of the condition of 35–110 kV power transformers based on gas chromatographic analysis.

    Pavel Viktorovich Kiriy – second-year Master's student, educational programme 7M07101 "Electric Power Engineering", Akhmet Baitursynuly Kostanay Regional University (academic supervisors: Igor Koshkin, Candidate of Technical Sciences, Associate Professor; Yuri Klassen, Candidate of Technical Sciences, Associate Professor).

Section 2 – Information Technology and Digitalization – ***Reading Room of the Library***

Moderator: Mikhail Yuryevich Zarubin – Candidate of Technical Sciences, Professor, Department of Information Technology and Automation, Kostanay Engineering and Economics University named after M. Dulatov.

PAPERS

1. **Paper title:** The use of artificial intelligence methods in modern robotic crop production: from civilizational trends to experimental aeroponic platforms.
   Mikhail Yuryevich Zarubin – Candidate of Technical Sciences, Professor, Department of Information Technology and Automation, Kostanay Engineering and Economics University named after M. Dulatov.
2. **Paper title:** Digital transformation of standardization in the Republic of Kazakhstan.
   Zhuldyzai Bakhitbekovna Ketebayeva – Senior Lecturer, Department of Standardization and Food Technologies, Kostanay Engineering and Economics University named after M. Dulatov.
3. **Paper title:** Statistical analysis of digital tools in accounting vacancies on hh.kz in Kazakhstan that are open to candidates with no work experience.
   Aruzhan Meyrambekkyzy Sagieva – Master's degree holder, Lecturer, Department of Information Technology and Automation, Kostanay Engineering and Economics University named after M. Dulatov.
4. **Paper title:** Digital analysis of electricity consumption based on time series and load profile indicators.
   Ene Mamedovna Orazberdieva – Lecturer, Department of Electrical Engineering, State Energy Institute of Turkmenistan.
5. **Paper title:** The use of digital educational resources in training industrial training instructors.
   Irina Vladimirovna Zolotovskaya – Lecturer in specialized disciplines, Kostanay College of Digital Industry.
6. **Paper title:** The use of digital measurement systems in physics laboratory classes.
   Aibolek Garyagdyyevna Annaeva – Senior Lecturer, Department of General Physics, State Energy Institute of Turkmenistan.
7. **Paper title:** Development of an intelligent adaptive system for managing production processes based on artificial intelligence and a digital twin of an industrial enterprise.
   Madina Dauletzhanovna Musina – Master's degree holder, Senior Lecturer, Department of Information Technology and Automation, Kostanay Engineering and Economics University named after M. Dulatov.
8. **Paper title:** Comparative analysis of machine learning algorithms for detecting phishing websites.
   Danil Vadimovich Ivanov – Master's degree holder, Lecturer, Department of Information Technology and Automation, Kostanay Engineering and Economics University named after M. Dulatov.
9. **Paper title:** Intelligent detection of anomalies in network traffic: a comparative analysis of machine learning methods.

Rodion Romanovich Babich – Master's degree holder, Lecturer, Department of Information Technology and Automation, Kostanay Engineering and Economics University named after M. Dulatov.

10. **Paper title:** Challenges in MVP architectural design: the case of web applications using AI agents.
    Vitaly Borisovich Bega – Master's degree holder, Senior Lecturer, Department of Information Technology and Automation, Kostanay Engineering and Economics University named after M. Dulatov.
11. **Paper title:** The use of generative artificial intelligence in teaching students the fundamentals of programming.
    Aigerim Berikovna Babakaeva – Master's degree holder, Senior Lecturer, Department of Information Technology and Automation, Kostanay Engineering and Economics University named after M. Dulatov.
12. **Paper title:** Automatic detection of defects in 3D-printed parts using computer vision and machine learning methods.
    Ainur Koishykyzy Kazova – Master's degree holder, Senior Lecturer, Department of Information Technology and Automation, Kostanay Engineering and Economics University named after M. Dulatov.
13. **Paper title:** Diagnosis of pre-failure conditions in rolling bearings using an ensemble of gradient boosting and a one-dimensional convolutional neural network (1D-CNN) based on physically informed features.
    Dinara Tulengaliyevna Aldasheva – Master's degree holder, Senior Lecturer, Department of Information Technology and Automation, Kostanay Engineering and Economics University named after M. Dulatov.
14. **Paper title:** Innovative digital technologies in organizing practical training for students of technical specialties.
    Irina Nikolaevna Shagun – Lecturer in specialized disciplines, Kostanay College of Digital Industry.

Section 3 – Economics and Social Sciences – ***Room 305, Main Building***

Moderator: Venera Ravilovna Zarubina – Candidate of Economic Sciences, Professor, Department of Socio-Economic Disciplines, Kostanay Engineering and Economics University named after M. Dulatov.

PAPERS

1. **Paper title:** Digital transformation of the economy of the Republic of Kazakhstan: legal mechanisms for regulation and protection of public interests.
   Zaure Bayadilovna Aubakirova – Senior Lecturer, Department of Socio-Economic Disciplines, Kostanay Engineering and Economics University named after M. Dulatov.
2. **Paper title:** The pedagogical legacy of the great thinker Al-Farabi and its reflection in modern education.
   Aigul Tanatkanovna Fazylakhmetova – Senior Lecturer, Department of Socio-Economic Disciplines, Kostanay Engineering and Economics University named after M. Dulatov.
3. **Paper title:** The extralinguistic context of discursive construction of the university's global identity.
   Alena Viktorovna Tkalia – Senior Lecturer, Department of Socio-Economic Disciplines, Kostanay Engineering and Economics University named after M. Dulatov.
4. **Paper title:** Engineering students' understanding of STEM disciplines: the integrated CLIL approach (Content and Language Integrated Learning).
   Gulziya Kabzhanovna Yeskatova – Senior Lecturer, Department of Socio-Economic Disciplines, Kostanay Engineering and Economics University named after M. Dulatov.
5. **Paper title:** Organizing the implementation of an electronic document management system and assessing its economic efficiency.
   Gleb Berikovich Ikhlasov – second-year Master's student, educational programme 7M04122 "Management", Kostanay Engineering and Economics University named after M. Dulatov.
6. **Paper title:** Investment Portfolio Managers in Kazakhstan: new opportunities for managing pension savings.
   Assel Aidarbekovna Artykbaeva – Senior Lecturer, Department of Socio-Economic Disciplines, Kostanay Engineering and Economics University named after M. Dulatov.
7. **Paper title:** Modelling the spatial transformation and location of productive forces in Kostanay Region amid digital transformation and the ESG transition.
   Zhanara Asylbekovna Tastemirova – first-year doctoral student, educational programme 8D01101 "Economics", Akhmet Baitursynuly Kostanay Regional University.

8. **Paper title:** Assessing the economic efficiency of financial instruments supporting the agro-industrial complex (the case of Kostanay Region).
   Marzhan Serikovna Sultanbekova – second-year Master's student, educational programme 7M04104 "Finance", Akhmet Baitursynuly Kostanay Regional University.
9. **Paper title:** Innovative game-based technologies for teaching and socializing students with special educational needs in history lessons.
   Gulshat Aitanovna Kulambaeva – Master of Pedagogical Sciences, History Teacher, General Secondary School No. 21, Kostanay.
   Zhanara Bakytzhanovna Ispulova – History Teacher, General Secondary School No. 16.
10. **Paper title:** ReadWorks as a digital resource for developing English reading skills among students in non-language degree programmes.
    Alena Viktorovna Tkalia – Master of Humanities, Senior Lecturer at Kostanay Engineering and Economics University named after M. Dulatov, doctoral student at Akhmet Baitursynuly Kostanay Regional University.
11. **Paper title:** The extralinguistic context of discursive construction of the university's global identity.
    Alena Viktorovna Tkalia – Master of Humanities, Senior Lecturer at Kostanay Engineering and Economics University named after M. Dulatov, doctoral student at Akhmet Baitursynuly Kostanay Regional University.
12. **Paper title:** Digitalization of the financial sector as a factor in increasing competitiveness (the case of Bank CenterCredit JSC).
    Timur Gatam ogly Aliyev – second-year Master's student in educational programme 7M04104 "Finance", Akhmet Baitursynuly Kostanay Regional University (supervisor: Dina Kenzhebekova, Candidate of Economic Sciences, Associate Professor, Akhmet Baitursynuly Kostanay Regional University).

Section 4 – Agricultural Sciences – ***Room 303, Main Building***

Moderator: Daulet Rashidovich Kabdolla – Senior Lecturer, Department of Standardization and Food Technologies, Kostanay Engineering and Economics University named after M. Dulatov.

PAPERS

1. **Paper title:** Global trends in vegetable production in the era of artificial intelligence: international practices and opportunities for adaptation in Kazakhstan and the Russian Federation.
   Lyudmila Ivanovna Koshevaya – Senior Lecturer, Department of Economics, Chelyabinsk State University, Kostanay Branch.
2. **Paper title:** Analysis of the condition of the machine and tractor fleet to substantiate optimal sets of machinery and equipment in the northern region.
   Sergey Ivanovich Bobkov – Candidate of Technical Sciences, Associate Professor, Department of Transport and Service, Kostanay Engineering and Economics University named after M. Dulatov.
3. **Paper title:** Standardization of agricultural production in the Republic of Kazakhstan.
   Zhuldyzai Bakhitbekovna Ketebayeva – Senior Lecturer, Department of Standardization and Food Technologies, Master's degree holder, Kostanay Engineering and Economics University named after M. Dulatov.
   Merei Askar – second-year student, Department of Standardization and Food Technologies, Kostanay Engineering and Economics University named after M. Dulatov.
4. **Paper title:** Analysis of the quality and volume of the 2026 harvest in Kazakhstan and Kostanay Region.
   Arman Zhumabayevich Kukenov – Senior Lecturer, Department of Standardization and Food Technologies, Kostanay Engineering and Economics University named after M. Dulatov.
5. **Paper title:** Metrological assessment of the accuracy of water, heat energy and gas meters based on verification results.
   Tarbiye Kabataevna Mukasheva – Associate Professor, Candidate of Agricultural Sciences, Department of Standardization and Food Technologies, Kostanay Engineering and Economics University named after M. Dulatov.
6. **Paper title:** Safety of the chickpea samples under study.
   Tarbiye Kabataevna Mukasheva – Associate Professor, Candidate of Agricultural Sciences, Department of Standardization and Food Technologies, Kostanay Engineering and Economics University named after M. Dulatov.
7. **Paper title:** Safety of frozen meat semi-finished products.

Tarbiye Kabataevna Mukasheva – Associate Professor, Candidate of Agricultural Sciences, Department of Standardization and Food Technologies, Kostanay Engineering and Economics University named after M. Dulatov.

8. **Paper title:** Improving wheat flour storage technology at Salamat Company LLP.
   Zhadira Zhagiparovna Nazarova – Head of Department, Senior Lecturer, Department of Standardization and Food Technologies, Kostanay Engineering and Economics University named after M. Dulatov.
9. **Paper title:** The effect of lamb weaning age on live weight and reproductive performance of their dams.
   Zhandarbek Mynbayevich Zhusupbekov – Candidate of Agricultural Sciences, Senior Lecturer, Department of Standardization and Food Technologies, Kostanay Engineering and Economics University named after M. Dulatov.
10. **Paper title:** The use of artificial intelligence to support students' independent work in higher education.
    Inna Ivanovna Gaidai – Candidate of Agricultural Sciences, Associate Professor, Professor, Department of Standardization and Food Technologies, Kostanay Engineering and Economics University named after M. Dulatov.
11. **Paper title:** Seed propagation of potatoes.
    Amanzhol Zulkarnayevich Akhmet – Candidate of Agricultural Sciences, Professor, Department of Standardization and Food Technologies, Kostanay Engineering and Economics University named after M. Dulatov.
    Andrey Stepanovich Udovitsky – Candidate of Agricultural Sciences, Senior Researcher, Crop Breeding Laboratory, Zarechnoye Agricultural Experimental Station LLP (Kostanay Region, Republic of Kazakhstan).

Award ceremony for participants of KEnEU International Week 2026 and the XVIII International Scientific and Practical Conference "Development of Science: New Trends and Innovations"
(13:00–14:00)

Lunch break
(14:00–15:30)

PROGRAMME

XVIII International Scientific and Practical Conference
"Development of Science: New Trends and Innovations",
held as part of International Week

"DULATOV READINGS – 2026"

20 November 2026

Kostanay
Republic of Kazakhstan

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