

## **INTERNATIONAL SCIENTIFIC AND PRACTICAL CONFERENCE "SUSTAINABLE DEVELOPMENT CONCEPT: AGRICULTURE, ENVIRONMENTAL AND ENERGY ENGINEERING" (SDCA3E2022)**

The conference is held to summarize international experience in the field of agriculture, energy, ecology and earth science. The conference will present scientific research aimed at solving a set of problems in the field of sustainable development, namely:

- Development of scientific and practical potential in order to formulate proposals for the introduction of science-intensive technologies in agriculture;
- Popularization of fundamental and applied research in the field of agriculture, ecology, energy and nature management, mining and soil cultivation technologies;
- Formation of recommendations aimed at improving engineering, innovative and digital technologies in agriculture, environmental protection and energy.

Graduate students, teachers, young scientists, employees of agricultural organizations, scientists from various research and educational institutions, as well as representatives of government agencies are invited to participate.

The international program and organizing committee includes Russian and foreign scientists from research and educational institutions, as well as representatives of various spheres of activity and industries.

### **Important dates:**

September 23, 2021 - the information letter;

April 10, 2022 - the end of registration and acceptance of articles;

April 14, 2022 - the end of the review and publication of the conference program;

April 19-21, 2022 - a conference.

**The conference venue** is Dagestan State Agrarian University named after M.M. Dzhambulatova, Makhachkala, Russian Federation and Tajik Technical University named after Academician M.S. Osimi, Dushanbe, Republic of Tajikistan.

### **The main directions of the conference:**

#### **1. Agronomy and agricultural products:**

- Development of plant growing and field cultivation;
- Biology in agriculture and agronomy;
- Ensuring the development of selection and seed production;
- Fauna and flora of agriculture: problems and prospects;
- Food products from vegetable raw materials;
- Fruit and vegetable growing and viticulture;
- Fodder production and meadow growing;
- Irrigated agriculture;
- Forestry;
- Aquatic biological resources and aquaculture;
- Veterinary medicine. Veterinary and sanitary examination;

#### **2. Mechanization and technologies in agriculture:**

- Monitoring the condition of agricultural land, crops and products;
- Operation and repair of machinery and equipment in agriculture;
- Biotechnical systems and technologies in agriculture;
- Development of engineering technologies in the agro-industrial complex;
- Technology of production and processing of agricultural products;
- Innovative technologies in agriculture and horticulture;

- Agrobotechnology in the selection and production of agricultural crops;
- Digitalization, automation and robotization of the agro-industrial complex;
- Mechanization and electrification of agriculture;
- Machines and equipment for selection and seed production;
- Gardening and landscape construction;
- Zootechnics;
- Automobile transport in the agro-industrial complex;
- Storage and processing of fruits and vegetables;
- Standardization and veterinary and sanitary control of veterinary drugs;
- Modern scientific achievements - the practice of production and processing of crop products;
- Tractor and agricultural machinery;
- Organization of agro-industrial production and agriculture;

### **3. Ecology and nature management:**

- Environmental management and water use;
- Land reclamation, reclamation and protection of land;
- Land management and cadastres;
- Environmental protection in agro-industrial production;
- Environmental protection, nature management and ecological safety;
- Production management in the transition to sustainable development;
- Renewable and alternative energy sources. Green energy;
- Organization of efficient and environmentally friendly production;
- Biodiversity and ways of its conservation;
- climatic and anthropogenic factors in the evolution of natural ecosystems;
- Environmental management and environmental protection, mining and tillage technologies;
- Systems analysis, physical and mathematical modeling, computer and information technologies in the context of sustainable development;
- Environmental Management and Engineering;

### **4. Problems of the fuel and energy complex and earth sciences:**

- Power systems and complexes;
- Transportation of fuel and energy resources and transmission of electricity;
- Energy and advanced technology;
- Nuclear, thermal, hydroelectric power plants and renewable energy sources;
- Technical and technological development of the fuel and energy complex;
- Materials science and materials science in power engineering;
- Extracted resources: coal, gas, oil, peat and other minerals;
- Rational use of natural resources, mining and tillage technologies;
- World energy infrastructure and electric power complexes;
- Organization of work of fuel and energy facilities.

### **Conference organizers:**

- Dagestan State Agrarian University named after M.M. Dzhambulatova, Makhachkala, Russian Federation;
- Tajik Technical University named after Academician M.S. Osimi, Dushanbe, Republic of Tajikistan.

### **International Program Committee:**

1. Dzhambulatov Zaydin Magomedovich - Doctor of Veterinary Sciences, Professor, Rector, Dagestan State Agrarian University named after M.M. Dzhambulatova, Makhachkala, Russian Federation - Chairman of the International Programming Committee;
2. Isrigova Tatyana Aleksandrovna - Doctor of Agricultural Sciences, Professor, Vice-Rector, Dagestan State Agrarian University named after M.M. Dzhambulatova, Makhachkala, Russian Federation - Co-chairman of the International Programming Committee;

3. Mukailov Mukail Dzhabrailovich - Doctor of Agricultural Sciences, Professor, Vice-Rector, Dagestan State Agrarian University named after M.M. Dzhambulatova, Makhachkala, Russian Federation - Co-chairman of the International Programming Committee;
4. Davlatzoda Kudrat Kambar - Doctor of Sciences, Professor, Rector of the Tajik Technical University named after Academician M.S. Osimi, Dushanbe, Republic of Tajikistan - Co-chairman of the International Programming Committee;
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6. Abdullo Mamadamon Abdurahmonbek - Candidate of Technical Sciences, Associate Professor, Vice-Rector for Science and Innovation of the Tajik Technical University named after academician M.S. Osimi, Dushanbe, Republic of Tajikistan - Co-chairman of the International Programming Committee;
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11. Taniev Arif Alirzaevich - Doctor of Agricultural Sciences, Professor, Azerbaijan State Agrarian University, Ganja, Azerbaijan Republic;
12. Radchikov Vasily Fedorovich - Doctor of Agricultural Sciences, Professor, Republican Unitary Enterprise Scientific and Practical Center of the National Academy of Sciences of Belarus for Livestock, Minsk, Republic of Belarus;
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14. Abdullaev Kanbar Karaevich - Doctor of Agricultural Sciences, Professor, Azerbaijan State Agrarian University, Ganja, Azerbaijan Republic;
15. Lemeshevsky Viktor Olegovich - Candidate of Agricultural Sciences, Associate Professor, Educational Institution "International State Ecological Institute named after A.D. Sakharov" of the Belarusian State University, Minsk, Republic of Belarus;
16. Rakhimov Ganisher Khudoikulovich - Doctor of Philology, Associate Professor, Rector of the Denau Institute of Entrepreneurship and Pedagogy, Denau, Uzbekistan;
17. Shmanev Sergey Vladimirovich - Doctor of Economics, Candidate of Chemical Sciences, Professor, Financial University under the Government of the Russian Federation; Corresponding Member of the Russian Academy of Natural Sciences, Moscow, Russian Federation; Member of the European Academy of Natural Sciences, Hannover, Germany;
18. Turabov Urfan Turonovich - Candidate of Agricultural Sciences, Associate Professor, Azerbaijan State Agrarian University, Ganja, Azerbaijan Republic;
19. Kadiev Abakar Kadievich - Doctor of Biological Sciences, Professor, Dagestan State Agrarian University named after M.M. Dzhambulatova, Makhachkala, Russian Federation;
20. Gnatyuk Viktor Ivanovich - Doctor of Technical Sciences, Professor, Kaliningrad State Technical University, Kaliningrad, Russian Federation;
21. Aliev Abdulgamid Asadulaevich - Doctor of Biological Sciences, Professor, Dagestan State Agrarian University named after M.M. Dzhambulatova, Makhachkala, Russian Federation;
22. Polevoy Sergey Anatolyevich - Doctor of Technical Sciences, Professor, Financial University under the Government of the Russian Federation, Moscow, Russian Federation;

23. Abdusamadov Akhma Saidbegovich - Doctor of Biological Sciences, Professor, Dagestan State Agrarian University named after M.M. Dzhambulatova, Makhachkala, Russian Federation;
24. Zubairova Madina Magomedovna - Doctor of Biological Sciences, Professor, Dagestan State Agrarian University named after M.M. Dzhambulatova, Makhachkala, Russian Federation;
25. Nosov Vladimir Vladimirovich - Doctor, Professor, K.G. Moscow State University of Technology and Management. Razumovsky, Moscow, Russian Federation;
26. Kurkiev Kishtili Ullubievich - Doctor of Biological Sciences, Professor, Dagestan State Agrarian University named after M.M. Dzhambulatova, Makhachkala, Russian Federation;
27. Usmanov Zafar Dzhuraevich - Doctor of Physical and Mathematical Sciences, Professor, Academician of the National Academy of Sciences of the Republic of Tajikistan, Tajik Technical University named after Academician M.S. Osimi, Dushanbe, Republic of Tajikistan;
28. Musaev Magomed Rasulovich - Doctor of Biological Sciences, Professor, Dagestan State Agrarian University named after M.M. Dzhambulatova, Makhachkala, Russian Federation;
29. Shikhmuradov Asef Zulfikarovich - Doctor of Biological Sciences, Professor, Dagestan State Agrarian University named after M.M. Dzhambulatova, Makhachkala, Russian Federation;
30. Akhmedkhanova Raisat Rahimovna - Doctor of Agricultural Sciences, Professor, Dagestan State Agrarian University named after M.M. Dzhambulatova, Makhachkala, Russian Federation;
31. Muslimov Mizenfer Gadzhiseidovich - Doctor of Agricultural Sciences, Professor, Dagestan State Agrarian University named after M.M. Dzhambulatova, Makhachkala, Russian Federation;
32. Magomedov Nurulislán Radzhabovich - Doctor of Agricultural Sciences, Professor, Dagestan State Agrarian University named after M.M. Dzhambulatova, Makhachkala, Russian Federation;
33. Kivchun Oleg Romanovich - Candidate of Technical Sciences, Associate Professor, Baltic Federal University named after V.I. I. Kant, Kaliningrad, Russian Federation;
34. Ganiev Izatullo - Doctor of Chemical Sciences, Professor, Academician of the National Academy of Sciences of the Republic of Tajikistan, Tajik Technical University named after Academician M.S. Osimi, Dushanbe, Republic of Tajikistan;
35. Odinzoda Haydar Odina - Doctor of Technical Sciences, Professor, Corresponding Member. NAS of the Republic of Tajikistan, Tajik Technical University named after academician M.S. Osimi, Dushanbe, Republic of Tajikistan;
36. Akhrorova Alfiya Dadakhanovna - Doctor of Economics, Professor, Tajik Technical University named after academician M.S. Osimi, Dushanbe, Republic of Tajikistan;
37. Kalandarbekov Imomerbek - Doctor of Technical Sciences, Associate Professor, Tajik Technical University named after academician M.S. Osimi, Dushanbe, Republic of Tajikistan;
38. Magomedova Diana Sultanovna - Doctor of Agricultural Sciences, Professor, Dagestan State Agrarian University named after M.M. Dzhambulatova, Makhachkala, Russian Federation;
39. Koryachko Marina Valerievna - PhD in Physics and Mathematics, Associate Professor, Moscow Polytechnic University, Moscow, Russian Federation;
40. Huseynova Batuch Mukhtarovna - Doctor of Agricultural Sciences, Professor, Dagestan State Agrarian University named after M.M. Dzhambulatova, Makhachkala, Russian Federation;
41. Zaripova Mohira Abdusalomovna - Doctor of Technical Sciences, Professor, Tajik Technical University named after academician M.S. Osimi, Dushanbe, Republic of Tajikistan;
42. Sidorov Alexander Ivanovich - Doctor of Technical Sciences, Professor, South Ural State University (NRU), Chelyabinsk, Russian Federation;
43. Lutsenko Dmitry Vladimirovich - Candidate of Technical Sciences, LLC KITS "Technocenosis", Kaliningrad, Russian Federation;

44. Salmanov Musasheikh Mazhitovich - Doctor of Agricultural Sciences, Professor, Dagestan State Agrarian University named after M.M. Dzhambulatova, Makhachkala, Russian Federation;
45. Arslanov Murat Arslanovich - Doctor of Agricultural Sciences, Professor, Dagestan State Agrarian University named after M.M. Dzhambulatova, Makhachkala, Russian Federation;
46. Gimbatov Abdulgamid Shapievich - Doctor of Agricultural Sciences, Professor, Dagestan State Agrarian University named after M.M. Dzhambulatova, Makhachkala, Russian Federation;
47. Karaev Marat Karaevich - Doctor of Agricultural Sciences, Professor, Dagestan State Agrarian University named after M.M. Dzhambulatova, Makhachkala, Russian Federation;
48. Kurbanov Serazhutdin Aminovich - Doctor of Agricultural Sciences, Professor, Dagestan State Agrarian University named after M.M. Dzhambulatova, Makhachkala, Russian Federation;
49. Aligazieva Patimat Abdulaevna - Doctor of Agricultural Sciences, Professor, Dagestan State Agrarian University named after M.M. Dzhambulatova, Makhachkala, Russian Federation;
50. Magomedov Magomed-Mirza Gamzaevich - Doctor of Agricultural Sciences, Professor, Dagestan State Agrarian University named after M.M. Dzhambulatova, Makhachkala, Russian Federation;
51. Aliev Ayub Yusupovich - Doctor of Veterinary Sciences, Professor, Dagestan State Agrarian University named after M.M. Dzhambulatova, Makhachkala, Russian Federation;
52. Musiev Dzhabrail Gabibulaevich - Doctor of Veterinary Sciences, Professor, Dagestan State Agrarian University named after M.M. Dzhambulatova, Makhachkala, Russian Federation;
53. Khalipaev Magomed Gadzhievich - Doctor of Veterinary Sciences, Professor, Dagestan State Agrarian University named after M.M. Dzhambulatova, Makhachkala, Russian Federation;
54. Zukhrabov Mirzabek Gashimovich - Doctor of Veterinary Sciences, Professor, Dagestan State Agrarian University named after M.M. Dzhambulatova, Makhachkala, Russian Federation;
55. Akhmedov Magomed Murtuzalievich - Doctor of Veterinary Sciences, Professor, Dagestan State Agrarian University named after M.M. Dzhambulatova, Makhachkala, Russian Federation;
56. Karsakov Nadyrsoltan Tavsoltanovich - Doctor of Veterinary Sciences, Professor, Dagestan State Agrarian University named after M.M. Dzhambulatova, Makhachkala, Russian Federation;
57. Magomedov Mustafa Zakaryaevich - Doctor of Veterinary Sciences, Professor, Dagestan State Agrarian University named after M.M. Dzhambulatova, Makhachkala, Russian Federation;
58. Ataev Agay Mukhtarovich - Doctor of Veterinary Sciences, Professor, Dagestan State Agrarian University named after M.M. Dzhambulatova, Makhachkala, Russian Federation;
59. Lopatkin Dmitry Stanislavovich - Candidate of Sciences, Associate Professor, Russian University of Chemical Technology named after V.I. Mendeleev, Moscow, Russian Federation;
60. Pulyaeva Valentina Nikolaevna - PhD, Director of the International Center for the Development of Innovations and Student Initiatives, Financial University under the Government of the Russian Federation, Moscow, Russian Federation;
61. Zhichkin Kirill Aleksandrovich - Candidate of Sciences, Associate Professor, Samara State Agrarian University, Kinel, Russia;
62. Kobzarenko Dmitry Nikolaevich - Doctor of Technical Sciences, Professor, Dagestan State Agrarian University named after M.M. Dzhambulatova, Makhachkala, Russian Federation;
63. Fataliev Novruz Huseynbekovich - Doctor of Technical Sciences, Professor, Dagestan State Agrarian University named after M.M. Dzhambulatova, Makhachkala, Russian Federation;
64. Akhmedov Magomed Eminovich - Doctor of Technical Sciences, Professor, Dagestan State Agrarian University named after M.M. Dzhambulatova, Makhachkala, Russian Federation;

65. Magomedov Fakhretdin Magomedovich - Doctor of Technical Sciences, Professor, Dagestan State Agrarian University named after M.M. Dzhambulatova, Makhachkala, Russian Federation;
66. Baybulatov Taslim Sultanbekovich - Doctor of Technical Sciences, Professor, Dagestan State Agrarian University named after M.M. Dzhambulatova, Makhachkala, Russian Federation;
67. Britvina Valentina Valentinovna - Candidate of Education, Moscow Polytech University; MSTU STANKIN, Moscow, Russian Federation;
68. Morkovkin Dmitry Evgenievich - PhD in Sciences, Financial University under the Government of the Russian Federation, Moscow, Russian Federation;
69. Sadridinov Manuchehr Islomiddinovich - PhD in Sciences, Associate Professor, Institute of tourism, entrepreneurship and service, Dushanbe, Republic of Tajikistan;
70. Romanova Julia Aleksandrovna - Doctor of Sciences, Professor, Moscow state University of technology and management K.G. Razumovsky (PKU); Market Economy Institute Russian Academy of Sciences, Moscow, Russian Federation;
71. Konyukhova Galina Pavlovna - Candidate of Pedagogical Sciences, MSTU STANKIN, Moscow, Russian Federation;
72. Zueva Anna Sergeyevna - Candidate of Sciences, Associate Professor, Moscow State University named after M.V. Lomonosov; Financial University under the Government of the Russian Federation; Institute of Legislation and Comparative Law under the Government of the Russian Federation, Moscow, Russian Federation.

#### **Organizing committee**

1. Gibadullin A.A. - Candidate of Sciences, State University of Management, Moscow, Russian Federation - Chairman of the organizing committee;
2. Gunashev Sh.A. - Candidate of Veterinary Sciences, Associate Professor, Senior Researcher, Dagestan State Agrarian University named after M.M. Dzhambulatova, Makhachkala, Russian Federation;
3. Ashurbekova T.N. - Candidate of Biological Sciences, Associate Professor, Deputy Head of Scientific and Publishing Activities, Dagestan State Agrarian University named after M.M. Dzhambulatova, Makhachkala, Russian Federation;
4. Pulyaeva Valentina Nikolaevna - Candidate of Sciences, Director of the International Center for the Development of Innovations and Student Initiatives, Financial University under the Government of the Russian Federation, Moscow, Russian Federation;
5. Ulchibekova N.A. - Candidate of Agricultural Sciences, Associate Professor, Deputy Head of the Department of Scientific and Innovation Activity, Dagestan State Agrarian University named after M.M. Dzhambulatova, Makhachkala, Russian Federation;
6. Morkovkin Dmitry Evgenievich - Candidate of Sciences, Financial University under the Government of the Russian Federation, Moscow, Russian Federation;
7. Sannikova E.V. - Junior Researcher, Chief Specialist of Scientific and Publishing Activities, Dagestan State Agrarian University named after M.M. Dzhambulatova, Makhachkala, Russian Federation;
8. Selimova U.A. - Candidate of Agricultural Sciences, Head of Scientific and Publishing Activities, Dagestan State Agrarian University named after M.M. Dzhambulatova, Makhachkala, Russian Federation;
9. Sadridinov Manuchehr Islomiddinovich - Candidate of Economic Sciences, Associate Professor, Institute of tourism, entrepreneurship and service, Dushanbe, Republic of Tajikistan;
10. Mazanov R.R. - Candidate of Technical Sciences, Associate Professor, Chairman of the Council of Young Scientists, Dagestan State Agrarian University named after M.M. Dzhambulatova, Makhachkala, Russian Federation;

11. Lopatkin D.S. - Candidate of Sciences, Associate Professor, Russian University of Chemical Technology named after V.I. Mendeleev, Moscow, Russian Federation;
12. Abdunatipov M.G. - Candidate of Technical Sciences, Associate Professor, Head of the Department of Postgraduate Studies, Dagestan State Agrarian University named after M.M. Dzhambulatova, Makhachkala, Russian Federation;
13. Duysenbieva G.M. - Candidate of Economic Sciences, Head of the Department for the Implementation of Innovative Technologies, Dagestan State Agrarian University named after M.M. Dzhambulatova, Makhachkala, Russian Federation;
14. Isrigov S.S. - postgraduate student, leading specialist of the department for the implementation of innovative technologies, Dagestan State Agrarian University named after M.M. Dzhambulatova, Makhachkala, Russian Federation.

#### **Requirements for articles:**

- The article must correspond to one of the topics of the conference;
- The article must be in English;
- The article should contain the following sections: "Introduction", "Materials and methods", "Results", "Discussion" and "Conclusion" (section "Acknowledgments" is written if necessary);
- The length of the article should be at least 6 pages;
- The recommended number of authors should not exceed 5;
- Links must be made in accordance with the requirements of the Publisher. Links, as a rule, need to be made only to sources (articles) from international journals;
- The text must be typed in electronic form in Microsoft Word 2007/2003 format. The text can be illustrated with diagrams and tables. All illustrations must be within the boundaries of the text (do not go to the margins of the sheet);
- The article should contain an annotation (no more than 200 words) and keywords (no more than 10);
- The number of references in the list of references must be at least 10;
- Self-citation should not exceed 10%;
- The originality of the article is not less than 80%.

#### **Submission of materials:**

- To participate in the conference, you need to send an article prepared according to the requirements of the journal.
- The scientific works of the authors who spoke at the conference, after reviewing and editing, are published in the journal, indexed in the international SCOPUS database. Articles by authors who did not speak at the conference are not subject to publication.

#### **The order of publication of an article in a journal indexed in Scopus:**

- Sending materials by mail to the executive secretary of the organizing committee [aa\\_gibadullin@guu.ru](mailto:aa_gibadullin@guu.ru);
- Conducting expertise and double-blind reviewing of materials;
- Full-time presentation at the conference.

#### **Origin, motivation and contribution**

Papers which are prepared for publishing should be original research manuscripts, never published before and not under consideration for publication in any other conference proceeding (journal etc.). All papers are supposed to present novel research results of international interest. Papers need to be related to the main topic of the conference and conference topic fields. We publish papers written in good English only. All papers are reviewed by a native speaker. All papers are thoroughly checked for plagiarism. Acceptable minimum of originality is 85 %. All papers should be not less than 4 pages. Restrict your document to 20 pages for the full paper (recommended 4-8 pages).

**Authorship**

Number of authors in a single paper is 5 person maximum. The corresponding author is the person chosen within the group to be responsible for all contact and correspondence with the periodical. The corresponding author should ensure that all appropriate co-authors (and no inappropriate co-authors) are included in the paper, and that all co-authors have seen and approved the final version of the paper and agree on its submission for publication.