



MINISTRY OF SCIENCE AND HIGHER EDUCATION
OR THE RUSSIAN FEDERATION
South Federal University
Academy of biology and biotechnology
named by D.I. Ivanovsky
Ministry of Natural Resources and Ecology of the Rostov
Region
Ministry of Agriculture and Food of the Rostov Region
Federal Rostov Agrarian Research Center
Society of Soil Scientists. V. V. Dokuchaeva
Working group on the study of Chernozems
Federal Rostov Agricultural Research Center
Brand "Biofarm "Petrovsky""
Ltd. "BioSoil", Rostov Region, Russian Federation



III International Scientific Conference

Current state of Chernozems

***II International Scientific School
of young scientists***

**“Monitoring, protection and restoration of soil ecosystems
under anthropogenic load”**

Rostov-on-Don, September 12–17, 2023

CONFERENCE PROGRAM

*The event is financially supported by the Ministry of Science and Higher Education
of the Russian Federation under the Megagrant, Agreement No. 075-15-2022-
1122.*

Conference regulations

Day One: 12.09.2023				
09:00 – 20.00	PARTICIPANT REGISTRATION (Stachki Ave. 194/1, hall)			
9:00-18:00	Excursion to Neklinovsky district of Rostov Region to “Petrovsky” Bio-Khutor – the first producer of organic products in the South of Russia, https://biohutor.ru/tourism			
Day Two: 13.09.2023				
09:00 10:00	PARTICIPANT REGISTRATION Exhibition-presentation of developments and publications by the staff of D. I. Ivanovsky Academy of Biology and Biotechnology 9:00—15:00 Bolshaya Sadovaya Street, 105. Ground floor hall			
10:00 14:00	PLENARY SESSION (Conference hall of the Academic Council, room 120) Chairpersons: Tskhovrebov Valery Sergeevich, Bezuglova Olga Stepanovna			
14:00 15:00	BREAK			
15:00 17:00	Excursion to the Culture and Exhibition center of DSTU “Don Cossack Guard”			
18:00	Banquet			
DAY THREE 14.09.2023 Breakout sessions				
9:00 11:30	The Oval Room, room. 119	Museum of History of SFedU, room. 120	Hall of Dissertation Councils, room. 203	Academic Council Conference Room, room. 101
	Section 1. Natural and anthropogenic factors of soil formation of polygenetic soil cover in steppe and forest-steppe zones. Chairpersons: Gromovik Arkady Igorevish, Kazzev Kamil Shagidullovich.	Section 2. The role of soil cover in ensuring food security of the country. Improving the fertility of agricultural land. Chairpersons: Khomyakov Dmitry Mikhailovich, Biryukova Olga Alexandrovna	Section 3. Theoretical and practical aspects of assessment, protection and rational use of soil cover including chernozems. Chairpersons: Suyundukov Yalil Tukhvatovich, Kolesnikov Sergey Ilyich	Section 4. Urbogenic and technogenic landscapes and their impact on the condition of chernozems and other soils of steppe and forest-steppe zones. Chairpersons: Khasanova Reseda Fimrgatovna, Gorbov Sergey Nikolaevich

11:30 12:00	Coffee break			
	The Oval Room, room. 119	Academic Council Conference Room, room. 120	Hall of Dissertation Councils, room. 203	Museum of History of SFedU, room. 101
12:00 14:30	CONTINUATION OF THE BREAKOUT SESSIONS			
	<i>Chairpersons: Zubkova Tatiana Alexandrovna, Tishchenko Svetlana Alexandrovna</i>	<i>Chairpersons: Minkina Tatiana Mikhailovna, Vishnu Radjput</i>	<i>Chairpersons: Sushkova Svetlana Nikolaevna, Sarieh Tarigholizadeh</i>	<i>Chairpersons: Sokolov Andrey Andreevich, Mandzhieva Saglara Sergeevna</i>
14:30 15:00	Coffe break			
15:00 17:00	CONTINUATION OF THE BREAKOUT SESSIONS			
	The Oval Room, room. 119	Museum of History of SFedU, room. 101	Hall of Dissertation Councils, room. 203	Academic Council Conference Room, room. 120
	<i>Chairpersons: Gorobtsova Olga Nikolayevna, Goncharova Lyudmila Yuryevna</i>	<i>Chairpersons: Nazarenko Olga Georgievna, Kravtsova Natalia Evgenievna</i>	<i>Chairpersons: Persikova Tamara Filippovna, Burachevskaya Marina Nikolaevna</i>	<i>Chairpersons: Sangadzhieva Lyudmila Khalgatovna, Gorovtsov Andrei Vladimirovich</i>
DAY FOUR 15.09.2023 <i>International School</i> “Monitoring, protection and restoration of soil ecosystems under anthropogenic load”				
9:00 12:00	Morning lectures. The Academic Council Conference Room, room. 120 <i>Chairpersons: Yergina Elena Ivanovna, Minkina Tatiana Mikhailovna</i>			
12:00 12:30	Coffee break			
12:30 14:00	POSTER SECTION Museum of History of SFedU, room. 101 <i>Chairpersons: Tishchenko Svetlana Alexandrovna, Litvinov Yury Alexeevich</i>			
14:00 14:30	Coffee break			
14:30 16:00	Round table "Legal and economic aspects of protecting soils as objects of environmental protection" <i>Chairperson: Morozov Igor Vadimovich</i> The Academic Council Conference Room, room. 120			
16:00 17:00	End of conference			

Day Five: 16.09.2023
Beginning 9:00, Ending 17:00

Field trip to the long-term experience of contour-landscape farming of the Federal Rostov Agrarian Scientific Center, chernozems of different degrees of washout (slope of south-western exposure 3 transects) and sod-soil (1 transect).

Lunch in "Tatiana" cafe in Rassvet village.

Cultural program: acquaintance with the sights of the capital of the Don Cossacks (Starocherkasskaya stanitsa).

Visit to "Don" – the first golf course in the south of Russia.

CONFERENCE ORGANIZING COMMITTEE

Chairperson

Shevchenko Inna Konstantinovna - Doctor of Economics, Rector of the Southern Federal University

Co-Chairpersons

Borovskaya Marina Alexandrovna, Doctor of Economics, Professor, President of the Southern Federal University

Bezuglova Olga Stepanovna, Doctor of Biology, Professor, Professor of the Department of Soil Science and Land Resources Assessment at D. I. Ivanovsky Academy of Biology and Biotechnology of the Southern Federal University, Chairman of the Rostov Branch of the V.V. Dokuchaev Society of Soil Scientists, Head of the Working Group for the study of chernozems

Minkina Tatyana Mikhailovna, Doctor of Biology, Professor, Head of the Department of Soil Science and Land Resources Assessment at D.I. Ivanovsky Academy of Biology and Biotechnology of the Southern Federal University.

Kazeev Kamil Shagidullovich, Doctor of Geological Sciences, Professor, Director of the D.I. Ivanovsky Academy of Biology and Biotechnology of the Southern Federal University

Rachalovsky Konstantin Nikolaevich, Minister of Agriculture and Food of Rostov region

Fishkin Mikhail Valeryevich, Minister of Natural Resources and Ecology of Rostov region

Members of the organizing committee

Bauer Tatiana Vladimirovna, Candidate of Biology, Senior Researcher of "Agrobiotechnologies for improving soil fertility and quality of agricultural products" Laboratory at D.I. Ivanovsky Academy of Biology and Biotechnology of the Southern Federal University.

Bourachevskaya Marina Viktorovna, Candidate of Biology, Leading Researcher of "Biosphere Monitoring" Research Laboratory at D.I. Ivanovsky Academy of Biology and Biotechnology of the Southern Federal University.

Varduni Tatiana Viktorovna, Doctor of Pedagogical Sciences, Professor, Director of the Botanical Garden of the Southern Federal University

Gorbov Sergey Nikolaevich, Doctor of Biology, Professor, Head of the Department of Botany, Head of the Scientific and Test Laboratory "Biogeochemistry" of D.I. Ivanovsky Academy of Biology and Biotechnology of the Southern Federal University.

Gorovtsov Andrey Vladimirovich, Candidate of Biology, Associate Professor of the Department of Biochemistry and Microbiology at D.I. Ivanovsky Academy of Biology and Biotechnology of the Southern Federal University.

Zamulina Inna Valeryevna, Senior Lecturer of the Department of Soil Science and Land Resources Assessment at D.I. Ivanovsky Academy of Biology and Biotechnology of the Southern Federal University.

Kravtsova Natalia Evgenievna, Candidate of Biology, Associate Professor of the Department of Soil Science and Land Resources Assessment at D.I. Ivanovsky Academy of Biology and Biotechnology of the Southern Federal University.

Kushnareva Alla Vladimirovna, Candidate of Biology, Deputy Minister of Natural Resources and Environment of Rostov region.

Litvinov Yuri Alexeevich, Candidate of Biology, Associate Professor of the Department of Soil Science and Land Resources Assessment, at D.I. Ivanovsky Academy of Biology and Biotechnology of the Southern Federal University.

Mandzhieva Saglara Sergeevna, Candidate of Biology., Chief Researcher, Head of the Research Laboratory "Biosphere Monitoring" at D.I. Ivanovsky Academy of Biology and Biotechnology of the Southern Federal University.

Igor Vadimovich Morozov, Candidate of Biology, Associate Professor of the Department of Soil Science and Land Resources Assessment, at D.I. Ivanovsky Academy of Biology and Biotechnology of the Southern Federal University.

Omelyanchuk Alina Alekseevna, Assistant to the Deputy Minister of Natural Resources and Environment of Rostov region

Dmitry Anatolyevich Repka, Deputy Minister of Agriculture and Food of Rostov region

Sushkova Svetlana Nikolaevna, Doctor of Biology, Leading Researcher, Head of the Research Laboratory of "Intelligent Agrobiosystems" at D.I. Ivanovsky Academy of Biology and Biotechnology of the Southern Federal University.

Chaplygin Victor Anatolyevich, Doctor of Biology, Leading Researcher of the Research Laboratory "Biosphere Monitoring" at D.I. Ivanovsky Academy of Biology and Biotechnology of the Southern Federal University.

CONFERENCE PROGRAM COMMITTEE

Chairperson

Professor Ming Hung Wong, Doctor of Biology, Professor, Head of the megagrant "Bioremediation of Contaminated Soil Ecosystems", Chief Scientist of the Soil Health Laboratory, Advisor of The Education University of Hong Kong)

Members of the program committee

Cerbari Valerian, Doctor of Science in Biology, prof., Chief of Laboratory of Soil Science, Institute of Pedology, Agrochemistry and Soil Protection "Nicolae Dimo", Chisinau, Republic of Moldova

Ghazaryan Karen, Doctor of Science in Biology, Deputy Dean of the Faculty of Biology, Yerevan State University, Armenia

Gulser Coskun, Doctor of Science in Soil Sciences, Professor, Head of Department of Soil Science and Plant Nutrition, Faculty of Agriculture, Ondokuz Mayıs University, Samsun, Turkey.

Jun Yao, Doctor of Science in Earth Science, Professor, School of Water Resources and Environment, China University of Geosciences, Beijing

Keswani Chetan, PhD in Biology, Highly qualified specialist, Head of laboratory «Agrobiotechnologies to improve soil fertility and the quality of agricultural production», Southern Federal University, Russia

Kızılkaya Ridvan, Doctor of Science in Soil Sciences, Professor, Ondokuz Mayıs University, General Secretary of Federation of Eurasian Soil Science Societies, Vice President Soil Science Society of Turkey, Samsun, Turkey

Kumari Arpna, PhD in Biology, University of Tokyo, Tokyo, Japan

Manoj Shrivastava, PhD in Biology, Indian Agricultural Research Institute, Delhi, India

Mikayilov Fariz, Doctor of Science in Biology, Professor, Iğdır University, Department of Soil Science and Plant Nutrition, Iğdır, Turkey

Movsesyan Hasmik Sedrak, PhD in Biology, Associate Professor, Chair of Ecology and Nature Protection Department, Faculty of Biology, Yerevan State University

Rajput Vishnu Dayal, PhD in Biology, Highly qualified specialist, Head of laboratory “Soil Health”, Southern Federal University, Russia

Ranjan Anuj, PhD in Biology, Highly qualified specialist, Southern Federal University, Russia

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Yu Shen, Doctor of Science in Biology, Emeritus Professor, Chongqing Technology and Business University, College of Environment and Resources

Asaturova Angela Mikhailovna, Doctor of Biology., Director, Federal State Budgetary Scientific Institution "Federal Scientific Center for Biological Plant Protection", Krasnodar.

Asylbaev Ilgiz Galliamovich, Doctor of Biology, Professor, Dean of the Faculty of Agrotechnology and Forestry, Bashkir State Agrarian University, Ufa

Baranovskaya Natalia Vladimirovna, Doctor of Biology, Professor of Tomsk National Research Polytechnic University, Tomsk, Russia

Berdnikov Sergey Vladimirovich, Doctor of Geology, Director of the Southern Scientific Center of RAS, Rostov-on-Don

Biriukova Olga Alexandrovna, Doctor of Agriculture, Professor of the Department of Soil Science and Land Resources Assessment at D.I. Ivanovsky Academy of Biology and Biotechnology of the Southern Federal University, Rostov-on-Don, Russia.

Vasenev Ivan Ivanovich, Doctor of Biology, Professor, Head of the Department of Ecology of K.A. Timiryazev Russian Academy of Sciences, Moscow.

Evstafieva Elena Vladimirovna, Doctor of Biology, Professor, Head of the Department of Normal Physiology of the S.I. Georgievsky Medical Academy of the V.I. Vernadsky Crimean Federal University. S.I. Georgievsky Crimean Federal University.

Yergina Elena Ivanovna, Doctor of Geology, Professor of the Department of Physical Geography, Oceanology and Landscape Science of Tavricheskaya Academy of V.I. Vernadsky Crimean Federal University, Simferopol, Russia.

Klimenko Alexander Ivanovich, Doctor of Agricultural Sciences, Professor, Academician of the Russian Academy of Sciences, Director of the Federal Rostov Agrarian Research Center, Russia

Kolesnikov Sergey Ilyich, Doctor of Agriculture, Professor, Head of the Department of Ecology and Nature Management at D.I. Ivanovsky Academy of Biology and Biotechnology, Southern Federal University.

Vitaly Grigorievich Linnik, Doctor of Geology, Chief Scientific Associate, Vernadsky Institute of Geochemistry and Analytical Chemistry, Russian Academy of Sciences, Moscow.

Mamontov Vladimir Grigorievich, Doctor of Biology, Professor of the Department of Soil Science, Geology and Landscape Science, K.A. Timiryazev Russian State Academy of Agricultural Sciences, Moscow.

Masyutenko Nina Petrovna, Doctor of Agriculture, Professor, Head of the Laboratory of Agrosoil Science, Deputy Director for Research, All-Russian Research Institute of Farming and Soil Erosion Protection, Kursk.

Nazarenko Olga Georgievna, Doctor of Biology, Professor, Director of FGBU GCAS "Rostovsky".

Osyak Valentina Vladimirovna, Candidate of Legal Sciences, Associate Professor, Head of the Department of Criminalistics, Rostov Branch of the St. Petersburg Academy of the Investigative Committee of the Russian Federation, Russia.

Perelomov Leonid Viktorovich, Doctor of Biology, Head of the Research Laboratory "Biogeochemistry", L.N. Tolstoy Tula State Pedagogical University, Tula, Russia. L.N. Tolstoy Tula State Pedagogical University, Tula, Russia.

Persikova Tamara Filippovna, Doctor of Agriculture, Professor, Head of the Department of Soil Science, Belarusian State Agricultural Academy, Gorki, Belarus.

Pinskiy David Lazarevich, Doctor of Biology, Professor, Deputy Director of the Institute of Physico-Chemical and Biological Problems of Soil Science, Russian Academy of Sciences, Pushchino, Russia

Pozachenyuk Ekaterina Anatolievna, Doctor of Geology., Professor, Head of the Department of Physical Geography, Oceanology and Landscape Science, Tavricheskaya Academy of V.I. Vernadsky Crimean Federal University, Simferopol, Russia.

Rusanov Alexander Mikhailovich, Doctor of Biology, Professor, Head of the Department of Biology and Soil Science, Orenburg State Agrarian University, Orenburg, Russia.

Samoylova Yulia Borisovna, Candidate of Legal Sciences, Associate Professor, Director of Rostov Branch of the Federal State Educational Institution of Higher Education "St. Petersburg Academy of the Investigative Committee of the Russian Federation", Russia.

Sindireva Anna Vladimirovna, Doctor of Biology, Professor, Head of the Department of Geocology and Nature Management, Tyumen State University, Tyumen, Russia.

Solovyev Dmitry Andreevich, Candidate of Agricultural Sciences, Director of the All-Russian Research Institute of Reclaimed Lands - branch of the Federal State Budgetary Scientific Institution of the Federal Research Center "V.V. Dokuchaev Soil Institute" (VNIIMD), Tyumen State University, Tyumen, Russia. Dokuchaev Soil Institute" (VNIIMZ)

Suyundukov Yalil Tukhvatovich, Doctor of Biology, Professor, Honored Scientist of the Republic of Bashkortostan, Academician of the Academy of Sciences of the Republic of Bashkortostan, Sibai, Russia

Aminat Batalbievna Umarova, Doctor of Biology, Professor, Head of the Department of Soil Physics, Faculty of Soil Science, Lomonosov Moscow State University, Moscow.

Khitrov Nikolay Borisovich, Doctor of Agriculture, Head of the Department of Genesis and Reclamation of Saline and Solonetz Soils, V.V. Dokuchaev Soil Institute, Moscow, Russia. Dokuchaev Soil Institute, Moscow

Khomyakov Dmitry Mikhailovich, Doctor of Technical Sciences., Candidate of Biological Sciences, Professor of the Department of General Agriculture and Agroecology, Faculty of Soil Science, Lomonosov Moscow State University, Moscow, Russia. M.V. Lomonosov Moscow State University, Honored Professor, Moscow, Russia.

Tskhovrebov Valery Sergeevich, Doctor of Agriculture, Professor, Head of Soil Science Department, Stavropol State Agrarian University, Stavropol, Russia.

Sheujen Askhad Khazretovich, Doctor of Biology, Professor, Academician of the Russian Academy of Sciences, Head of the Department of Agrochemistry, Kuban State Agrarian University, Krasnodar, Russia.

Shpedt Alexander Arturovich, Doctor of Agriculture, Professor, Director of Federal Research Center "Krasnoyarsk Research Center of the Siberian Branch of the Russian Academy of Sciences, Corresponding Member of RAS, Krasnoyarsk, Russia.

Secretary of the organizing committee

Tishchenko Svetlana Aleksandrovna, Candidate of Biology., Associate Professor, Department of Ecology and Nature Management, D.I. Ivanovsky Academy of Biology and Biotechnology, Southern Federal University.

Technical clerks

Vilkova Valeria Valerievna, Junior Researcher of the Academy of Biology and Biotechnology, Southern Federal University

Boldyreva Veronika Eduardovna, Lecturer at the Department of Soil Science and Land Resources Assessment at D.I. Ivanovsky Academy of Biology and Biotechnology of the Southern Federal University.

Sherstnev Alexey Konstantinovich, Lecturer of the Department of Soil Science and Land Resources Assessment at D.I. Ivanovsky Academy of Biology and Biotechnology of the Southern Federal University.

Anton Mezhenkov, Engineer of the Department of Soil Science and Land Resources Assessment at D.I. Ivanovsky Academy of Biology and Biotechnology of the Southern Federal University.

Barbashev Andrey Igorevich, Junior Researcher at D.I. Ivanovsky Academy of Biology and Biotechnology of the Southern Federal University.

Tamara Dudnikova, Junior Researcher at D.I. Ivanovsky Academy of Biology and Biotechnology of the Southern Federal University.

September 13

PLENARY SESSION

Chairpersons: Tskhovrebov Valery Sergeevich, Doctor of Agricultural Sciences, Professor, Head of the Department of Soil Science (Stavropol State Agrarian University);

Bezuglova Olga Stepanovna (Southern Federal University).

Secretary: Dr. Svetlana Aleksandrovna Tishchenko (Southern Federal University).

Date and venue: September 13, Conference hall of the Academic Council of SFedU, room. 120

Link for remote connection: <https://teams.microsoft.com/l/meetup-join/19%3a2faafd261e1744df9d967dd54c762139%40thread.tacv2/1694192587208?context=%7b%22Tid%22%3a%2219ba435d-e46c-436a-84f2-1b01e693e480%22%2c%22Oid%22%3a%2281e9e4f2-fd1c-4352-a0c4-447d2827ee63%22%7d>

	Greetings to the conference participants
10:00	Borovskaya Marina Alexandrovna , President of the Southern Federal University
10:30	Metelitsa Anatoly Victorovich , Vice-Rector for Science and Research of the Southern Federal University
	Repka Dmitry Anatolyevich , Deputy Minister of Agriculture and Food of Rostov region
	Kushnareva Alla Vladimirovna , Deputy Minister of Natural Resources and Ecology of Rostov region
10:30	Mukhanov Evgeny Leonidovich , Vice Rector of the Southern Federal University for Strategic and Innovative Development. Strategic Academic Leadership Program of SFedU "Priority 2030"
10:40	
10:40	Minkina Tatiana Mikhailovna "Soil Resources Management and Agroclimatology" - direction within the framework of the Strategic Academic Leadership Program of SFedU "Priority 2030"
10:50	
10:45	Ming Hung Wong , Professor, Head of "Bioremediation of contaminated soil ecosystems" megagrant, Scientific Director of the Laboratory "Soil Health" of

10:50	the Southern Federal University, Advisor of the Educational University of Hong Kong.
10:50 11:10	Kazeev Kamil Shagidullovich "Assessment of carbon cycle in the soils of the South of Russia depending on climatic conditions"
11:10 11:30	Khomyakov Dmitry Mikhailovich "Optimization of agrolandscape structure in steppe regions: relevance of the issue"
11:30 11:50	Tskhovrebov Valery Sergeyevich "Constituents of organic matter and soil fertility"
11:50 12:00	Coffee break
	Continuation of the plenary session
12:00 12:20	Bezuglova Olga Stepanovna "Humus condition of chernozems of Rostov region"
12:20 12:40	Khasanova Reseda Firgatovna, Suyundukov Y.T., Kiraev R.S. "Efficiency of land reclamation on chernozems of Bashkortostan"
12:40 13:00	Zubkova Tatiana Aleksandrovna "The theme of harvest in art for the protection of soil and man on Earth"
13:00 13:20	Sokolova Elena Alexandrovna. "Healthy Soil" Project: from an educational course to a platform for the formation of sustainable harvests.
13:20 15:30	Lunch break
Culture program: Excursion to the Culture and Exhibition centre of DSTU "Don Cossack Guard"	

September 14

SESSION 1: Natural and anthropogenic factors of soil formation in formation of polygenetic soil cover in steppe and forest-steppe zones

<i>Morning session</i> Chairpersons:
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<p>Candidate of Biological Sciences, Associate Professor Gromovik Arkady Igorevich (Voronezh State University)</p> <p>Doctor of Geology, Professor Kamil Shagidullovich Kazeev (Academy of Biology and Biotechnology Southern Federal University)</p> <p>Secretary: Vilkova Valeria Valerievna (Southern Federal University).</p> <p>Date and venue: September 14, Oval Hall of the SFedU, room. 119</p> <p>Speaking time limit: 10-15 minutes</p> <p>Link for remote connection: https://teams.microsoft.com/l/meetup-join/19%3af05fd6a48432435c82e9997433d4afb5%40thread.tacv2/1694192276230?context=%7b%22id%22%3a%2219ba435d-e46c-436a-84f2-1b01e693e480%22%2c%22oid%22%3a%2281e9e4f2-fd1c-4352-a0c4-447d2827ee63%22%7d</p>	
9:00 9:15	Spedt Alexander Arturovich. Distribution and assessment of Siberian chernozems (online)
9:15 9:30	Kozlova Alla Afonasyevna. Specifics of formation and use of soils of Southern Predbaikalia (online)
9:30 9:45	Yergina Elena Ivanovna, Bezuglova O.S. Lithochemical characteristics of chernozems of Rostov region and Crimea
9:45 10:00	Gromovik Arkady Igorevich, Gorbunova N.S., Cherepukhina I.V. Transformation of humus profile of chernozems under development of erosion processes
10:00 10:15	Gorobtsova Olga Nikolaevna., Gedgafova F.V., Tembotov R.H., Khakunova E.M., Tsurova A.T., Bakkeeva Z.L. Influence of soil formation conditions on microbial indicators of mountain chernozems and mountain-meadow chernozem-like soils of the Central part of Russia
10:15 10:30	Tishchenko Svetlana Aleksandrovna. Biological properties of migration-segregation chernozems under groundwater flooding
10:30 10:45	Dadenko Evgeniya Valerievna. Features of fermentative activity of chernozems under different phytocenoses
10:45 11:00	Belyaeva Svetlana Alekseevna, Mamontov V.G., Krylov V.A. Influence of permanent crops and fallow on organic matter of typical chernozem
11:00 11:15	Tembotov Rustam Khasanbievich, Gorobtsova O.N., Gedgafova F.V., Khakunova E.M., Tsurova A.T., Bakkeeva Z.L. Application of remote sensing information for cartographic modeling of organic carbon content in chernozems of the plain-predmont part of the Central Caucasus.

11:15	Abakumov Evgeny Vasilyevich. Chernozems of Syrtovy Zavolzhye region
11:30	Abakumov Evgeny V., Tembotov R.H., Nizamutdinov T.I. Chernozems, organo-accumulative and primary soils of glacial and postglacial landscapes of the Central Caucasus, Russia.
11:30	Coffee break
12:00	
<p style="text-align: center;"><i>Afternoon session</i> Chairpersons: Dr. B.Sc., Professor Zubkova Tatiana Alexandrovna (Lomonosov Moscow State University), Associate Professor Tishchenko Svetlana Aleksandrovna (Southern Federal University). Secretary: Vilkova Valeria Valerievna (Southern Federal University). Date and venue: September 14, Oval Hall of SFedU, room. 119 Speaking time limit: 10-15 minutes Link for remote connection: https://teams.microsoft.com/l/meetup-join/19%3af05fd6a48432435c82e9997433d4afb5%40thread.tacv2/1694192276230?context=%7b%22id%22%3a%2219ba435d-e46c-436a-84f2-1b01e693e480%22%2c%22oid%22%3a%2281e9e4f2-fd1c-4352-a0c4-447d2827ee63%22%7d</p>	
12:00	Masyutenko Nina Petrovna. Humus state of chernozem soils of Kursk region (online)
12:15	
12:15	Perelomov Leonid Viktorovich. , Burachevskaya M.V., Atroshchenko Y.M., Gertsen M.M., Simonov R.V., Kozmenko S.V., Romanov Y.V., Rodin P.R., Gurova M.S., Kiseleva K.V. Absorption of trace element cations by interaction products of clay minerals with expanding structural cell and organic surfactants.
12:30	
12:30	Semenkov Ivan Nikolaevich. , Lednev S.A., Klink G.V., Kasymov D.P., Agafontsev M.V., Koroleva T.V. Properties of dark humus horizon of chernozem as indicators of pyrogenic impact (Basic Experimental Complex; Tomsk)
12:45	
12:45	Klink Galina Viktorovna , Lednev S.A., Semenov I.N., Koroleva T.V. Application of Cluster Analysis for Estimation of Pyrogenic Label Existence Time in Soil and Vegetation Characteristics of the Base Experimental Complex (Tomsk)
13:00	
13:00	Enchilik Polina Romanovna , Semenov I.N., Bezberdaya L.A., Vasilchuk J.Y., Kosheleva N.E., Kasimov N.S. Influence of sample preparation on the content of chemical elements in microparticles of sod-podzolic soil and chernozems
13:15	
13:15	Gertsen Maria Mikhailovna , Perelomov L.V. Assessment of diesel fuel degradation in soil by humic acids and bioorganic compositions on their basis
13:30	
13:30	Nizhelsky Mikhail Sergeevich , K.Sh. Kazeev, K.Sh. Ecological state of chernozem under the influence of smoke from fires
13:45	

13:45 14:00	Lyapina Elena Evgenievna. Mercury in soils of Altai region
14:00 14:15	Vorobyeva Irina Borisovna. Daily fluctuations of hydrothermal indicators of chernozems of Nazarovo forest-steppe
14:15 14:30	Smirnova Maria Andreevna, Kovach R.G., Chendev Y.G., Gennadiev A.N. Change of activity traits of shrews in chernozems under the influence of forest belts.
14:30 15:00	Coffee break
Continuation of the afternoon session Chairperson: Candidate of Biology Gorobtsova Olga Nikolaevna (A.K. Tembotov Institute of Ecology of Mountain Territories, Russian Academy of Sciences) Candidate of Agriculture, Associate Professor Goncharova Ludmila Yurievna (Southern Federal University). Secretary: Vilkova Valeria Valerievna (Southern Federal University). Date and venue: September 14, Oval Hall of SFU, room 119 Speaking time limit: 10-15 minutes Link for remote connection: https://teams.microsoft.com/l/meetup-join/19%3af05fd6a48432435c82e9997433d4afb5%40thread.tacv2/1694192276230?context=%7b%22id%22%3a%2219ba435d-e46c-436a-84f2-1b01e693e480%22%2c%22oid%22%3a%2281e9e4f2-fd1c-4352-a0c4-447d2827ee63%22%7d	
15:00 15:15	Romanenkov Vladimir Arkadyevich, Khusniev I.T. Possibility of long-term carbon sequestration by arable chernozems of long-term field experiments (online)
15:15 15:30	Shekhter Karina Pavlovna, Sapozhnikov P.M. Differentiation of cadastral value of chernozems of European part of Russia (online)
15:30 15:45	Khakunova Elena Mukhadinovna, Gorobtsova O.N., Gedgafova F.V., Tembotov R.Kh., Tsurova A.T., Bakkueva Z.L. Assessment of changes in enzymatic activity of mountain chernozems of the Central Caucasus using remote sensing data and GIS-technologies.
15:45 16:00	Minaeva Evgeniya Nikolaevna, Tagiverdiev S.S., Skripnikov P.N., Nosov G.N. Comparison of different methods of carbonate content determination in migration-segregation chernozems
16:00 16:15	Anisimov Vyacheclav Sergeevich, Fesenko S.V., Glazunov G.P., Anisimova L.N., Sanzharov A.I., Korovin S.V., Krylenkin D.V., Korneev Y.N., Novikova N.V., Mezina M.V., Zheltov D.A. Regularities of migration of ¹³⁷ Cs, natural radionuclides and heavy metals in the system "soil - herbaceous plants" at the site "Streletskaya steppe" of the V.V. Alekhin Central Chernozem Reserve.
16:15	Chebykina Ekaterina Yuryevna. Forest fires as a factor of soil formation in the forest-steppe zone

16:30	
16:30 16:45	Gudko Vasiliy Nikolaevich , Usatov A.V., Azarin K.V. Dynamics of average annual soil temperature in Priazovskaya agroclimatic zone of Rostov region
16:45 17:00	Cheverdin Yuri Ivanovich . Features of soil salinity formation depending on stand composition

September 14.

SESSION 2. The role of soil cover in ensuring food security of the country. Resource-saving technologies in increasing the fertility of agricultural lands of steppe and forest-steppe zones

<p><i>Morning session</i></p> <p>Chairpersons: Dr. Sc., Candidate of Biological Sciences, Prof. Khomyakov Dmitry Mikhailovich (Lomonosov Moscow State University)</p> <p>Dr. Biryukova Olga Alexandrovna (Southern Federal University).</p> <p>Secretary: Barakhov Anatoly Vadimovich (Southern Federal University).</p> <p>Date and venue: September 14, Conference hall of the Academic Council of SFedU, room 120</p> <p>Speaking time limit: 10-15 minutes</p> <p>Link for remote connection: https://teams.microsoft.com/l/meetup-join/19%3a2faafd261e1744df9d967dd54c762139%40thread.tacv2/1694192389261?context=%7b%22Tid%22%3a%2219ba435d-e46c-436a-84f2-1b01e693e480%22%2c%22Oid%22%3a%2281e9e4f2-fd1c-4352-a0c4-447d2827ee63%22%7d</p>	
9:00 9:15	Hasanov Hasan Nikuevich , Usmanov R.Z., Musaev M.R., Asvarova T.A., Gadzhiev K.M., Bashirov R.R., Abdulaeva A.S., Hasanova Z.U. Restoration of fertility of saline soils of Kizlyar pastures by the natural-anthropogenic method (online)
9:15 9:30	Dobryanskaya Svetlana Leonidovna . Evaluation of the potential of the leached chernozem of Novosibirsk Priobie for the development of organic farming (online)
9:30 9:45	Biryukova Olga Aleksandrovna , Ilchenko Ya. I. Influence of precursors on winter wheat yield in No-till system
9:45 10:00	Gaevaya Emma Anatolievna , Bezuglova O.S. Forecast of dynamics of humus content in long-term experiment on ordinary chernozems of Rostov region.
10:00 10:15	Mokrikov Grigory Vasilievich . Ecological condition of chernozems of Rostov region at long-term application of direct seeding technology.

10:15 10:30	Okuneva Anastasia Andreevna. Influence of biological product application on the structural condition of typical weakly eroded chernozem
10:30 10:45	Batukaev Abdulmalik Abdulhamidovich, Magomadov A.S., Dudaeva A.S. Development of viticulture on sandy soils of the Chechen Republic
10:45 11:00	Matyugin Vladislav Alexandrovich, M. N. Dubinina, O. Bezuglova. C. Influence of foliar treatment of plants with humic preparations on the process of phosphorus mobilization in soil
11:00 11:15	Shkhapatsev Aslan Kaplanovich. Comparative evaluation of zeolite application efficiency in chernozems and brown soils of Adygea.
11:15 11:30	Cherepukhina Irina Vyacheslavovna, Bezler N.V., Gorbunova N.S., Gromovik A.I. Use of consortium of effective microorganisms for the decomposition of grain straw in grain and fallow rotation
11:30 12:00	Coffee break
<p style="text-align: center;"><i>Afternoon session</i></p> <p>Chairpersons: Dr. B.Sc., Professor Minkina Tatyana Mikhailovna (Southern Federal University) PhD Rajput Vishnu D. (Southern Federal University) Secretary: Barakhov Anatoly Vadimovich (Southern Federal University) Date and venue: September 14, Conference hall of the Academic Council of SFedU, room 120 Speaking time limit: 15-20 minutes</p> <p>Link for remote connection: https://teams.microsoft.com/l/meetup-join/19%3a2faafd261e1744df9d967dd54c762139%40thread.tacv2/1694192389261?context=%7b%22id%22%3a%2219ba435d-e46c-436a-84f2-1b01e693e480%22%2c%22oid%22%3a%2281e9e4f2-fd1c-4352-a0c4-447d2827ee63%22%7d</p>	
12:00 12:20	Singh Abhishek, Rajput Vishnu D., Ghazaryan Karen, Movsesyan HasmikS., Minkina Tatiana. Tackling Salinity Stress with Green Nanoparticles: Modernizing Agriculture (online)
12:20 12:40	Praddyumna Rahate, Prashant Shingote, Dhiraj Wasule, Sumit Kale, Virdhaval Nalavade, Pramod Ingle, Narsing Parlawar, Aniket Gade, Sudhir Shende. Seaweed extract as foliar bio-stimulant in fenugreek (online)
12:40 13:00	Poonam Choubey, Yogesh Kumar Tiwari. Fertile Fortunes: Unleashing Agricultural Treasure Through Swift Composting(online)
13:00 13:20	Vishnu D. Rajput, Saglara Mandzhieva, Svetlana Sushkova, Sudhir Shende, Sarieh Tarigholizadeh, Anuj Ranjan, Natalia Chernikova and Svetlana

	Kozmenko.Mitigating Toxic Effects of Soil Spiked Zn ONPs on Barley Growth Using Bacteria and Biochar
13:20 13:40	Ranjan A. , Prazdnova E. V., Rajput V.D., Sushkova S., Minkina T., Chauhan A., Jindal T. Antarctic Psychrophilic Bacillus-Derived Non-Ribosomal Peptides for Plant Pathogen Biocontrol
13:40 14:00	Soltane Sabrina , Benmeddour Tarek. Harnessing the Power of Allelopathy: A Revolutionary Approach to Soil Fertility Management
14:00 14:20	Rud P.A. , Polyakov V.A., Bauer T.V., Butova V.V., Gritsai M.A., Minkina T.M. Nanocomposites for the Pb removal from polluted soils X
14:20 14:40	Butova V.V. , Bauer T.V., Polyakov V.A., Rajput V.D., Minkina T.M. Pioneering a New Frontier: Biochar as a Carrier for Agrochemicals
14:30 15:00	Coffee break
15:00 17:00	<i>Continuation of the afternoon session</i> Chairpersons: Dr.B.Sc., Professor Nazarenko Olga Georgievna (Agrohimcenter "Rostovsky"), Associate Professor Kravtsova Natalia Evgenievna (Southern Federal University). Secretary: Barakhov Anatoly Vadimovich (Southern Federal University). September 14, Museum of History of SFedU, room. 101 Speaking time limit: 10-15 minutes
15:00 15:15	Fedorenko Anastasia Nikolaevna , Mokrikov G.V., Kazeev K.Sh. Influence of liquid mineral fertilizers on the enzymatic activity of chernozems under zero tillage
15:15 15:30	Kucherenko Alexey Vasilievich. , Biryukova O.A. Agroecological evaluation of southern chernozem in conditions of ampelocenosis.
15:30 15:45	Tsaryova Maria Vladimirovna. Evaluation and rational use of fertility of sod-podzolic cohesive-sandy soil in winter wheat cultivation in the zone of influence of industrial poultry farming enterprise.
15:45 16:00	Tregubova Polina Nikolaevna , Abroskin D.P., Volkova E.A., Zhrebker A.Ya. Influence of medicine on soil properties
16:00 16:15	Bauer Tatyana Vladimirovna , Minkina T.M., Lobzenko I.P., Khronyuk O.E., Boldyreva V.E., Fedorenko A.G. Sopyrolysis of sewage sludge and lignin-containing biomass: synergistic effect and modeling of the influence of carbonization parameters on the results of optimization of biochar properties.
16:15 16:30	Alliluev Ilya Alexandrovich , Lysenko D.S., Litvinova A.V., Chernikova N.P., Minkina T.M. Study of antioxidant enzyme activity of two-row barley (H. sativum distichum) in conditions of ZnSO ₄ contamination.

16:30 16:45	Mikheeva Irina Viktorovna. Informational assessment of changes in the properties of arable chernozems in the south of Western Siberia.
16:45 17:00	Trofimov Ilya Alexandrovich, Trofimova L.S., Yakovleva E.P., Privalova K.N., Teberdiev D.M., Emelyanov A.V., Skripnikova E.V., Gorbunov A.S., Bykovskaya O.P. Theoretical and practical aspects of assessment, protection and rational use of soil cover of the Central Black Earth Region of Russia.

September 14

SESSION 3: Theoretical and practical aspects of assessment, protection and rational use of soil cover including chernozems

<p style="text-align: center;"><i>Morning session</i></p> <p style="text-align: center;">Chairpersons:</p> <p style="text-align: center;">Dr. Suyundukov Yalil Tukhvatovich (Ufa University of Science and Technology, Sibai Branch)</p> <p style="text-align: center;">Dr. Kolesnikov Sergey Ilyich (Southern Federal University).</p> <p style="text-align: center;">Secretary: Dudnikova Tamara Sergeevna (Southern Federal University).</p> <p style="text-align: center;">Date and venue: September 14, Dissertation Council Hall, room. 203</p> <p style="text-align: center;">Speaking time limit: 10-15 minutes</p> <p style="text-align: center;">Link for remote connection: https://teams.microsoft.com/l/meetup-join/19%3a2b1b698c246f40fa8bc39e8728f12a95%40thread.tacv2/1694192316419?context=%7b%22Tid%22%3a%2219ba435d-e46c-436a-84f2-1b01e693e480%22%2c%22Oid%22%3a%2281e9e4f2-fd1c-4352-a0c4-447d2827ee63%22%7d</p>	
9:00 9:15	Trefiliev P. P., Zueva Y. V., Zakharov Dmitry Alexeevich, Stepanova E.. V. Complex of agrotechnical forest ameliorative measures to combat water and irrigation soil erosion (online)
9:15 9:30	Sviridova L.L., Zakharov D.A., Trefiliev P.P., Glinushkin A.P., Stepanova Evgenia Vyacheslavovna. Stabilization of protective forest plantations exemplified by agrolandscapes of the Lower Volga region (online)
9:30 9:45	Kolesnikov Sergey Ilyich. Ranking of chemical elements (priority pollutants) by the degree of danger to chernozems
9:45 10:00	Minkina Tatyana Mikhailovna, Bauer T.V., Sushkova S.N., Mandzhieva S.S., Kalinichenko V.P. Highly porous carbon materials: a modern basis for ensuring the quality and safety of soils.
10:00 10:15	Suyundukov Yalil Tukhvatovich, Khasanova R.F., Suyundukova M.B. Role of natural zeolites in rehabilitation of degraded ordinary chernozems in Bashkir Trans-Urals region
10:15 10:30	Persikova Tamara Filippovna, Tsaryova M.V. Change of properties of sod-podzolic soil of different granulometric composition when using chicken manure (Belarusian State Agricultural Academy).
10:30 10:45	Morozov Igor Vadimovich. Evaluation of the results of engineering-geological surveys and laboratory tests of soils at the construction site: practical experience in the production of forensic construction-technical and soil science expertise

10:45 11:00	Burachevskaya Marina Viktorovna , T.M. Minkina, I.V. Zamulina, E.S. Latsynnik, A.P. Shcherbakov Influence of soil physicochemical properties on its buffering capacity against arsenic
11:00 11:15	Timoshenko Alena Nikolaevna , Evstegneeva N.A. Biodiagnostics on enzymatic activity of resistance of ordinary chernozem to platinum contamination.
11:15 11:30	Akimenko Yulia Viktorovna . Ecological regional norms of antibiotics content in ordinary chernozems
11:30 12:00	Coffee break
<p style="text-align: center;"><i>Afternoon session</i> Chairpersons: PhD.Sushkova Svetlana Nikolaevna (Southern Federal University) PhD.Sarieh Tarigholizadeh (Southern Federal University) Secretary: Dudnikova Tamara (Southern Federal University) Date and venue: September 14, Dissertation Council Hall, room. 203 Speaking time limit: 15-20 minutes Link for remote connection: https://teams.microsoft.com/l/meetup-join/19%3a2b1b698c246f40fa8bc39e8728f12a95%40thread.tacv2/1694192316419?context=%7b%22Tid%22%3a%2219ba435d-e46c-436a-84f2-1b01e693e480%22%2c%22Oid%22%3a%2281e9e4f2-fd1c-4352-a0c4-447d2827ee63%22%7d</p>	
12:00 12:20	Fariz Mikayilov , Fatih Erand Ekrem Tusat. Direct and inverse problem of the theory suffusion processes in saline soils and their solutions based on mathematical modeling (online)
12:20 12:40	Pramod Ingle , Sudhir Shende, Rahul Bhagat, Mahendra Rai, Aniket Gade. Trichoderma-mediated zinc oxide nanoparticles as seed priming agents and nano-biofertilizers for soybean(online)
12:40 13:00	Parvindar M. Sah , Harshala S. Naik, Aniket Gade, Rajesh W. Raut. Photocatalytic Degradation of Chlorpyrifos using Silica supported ZnO nanoparticles and their Recovery
13:00 13:20	Priyadarshani Rajput , Svetlana Sushkova, Saglara Mandzhieva, Tatiana Minkina, Tatiana Bauer and Alexander Soldatov. Role of Zeolite, Activated Carbon, Biochar and Metal Organic Framework in Remediation of Industrial Wastewater using Microfluidic System
13:20 13:40	Saurabh Kumar Pathak , Sudhakar Srivastava Ameliorating effects of organic chelators-modified biochar on rice plant grown in arsenic (As) contaminated soil.
13:40 14:00	Shende S.S. , Ingle P.U., Rai M., Rajput V.D., Mandzhieva S.S., Sushkova S.N., Minkina T.M., Gade A.K. Advanced Green Nanomaterials for Applications in Soil Fertility Improvement

14:00 14:20	Ghazaryan Kapen Aramais , Movsesyan H.S. Heavy metal contamination of crops growing in agricultural lands in the vicinity of Zangezur Copper and Molybdenum Combine, Armenia
14:20 14:40	Alizadeh S. , Fallahi Gharagoz S., Pourakbar L., Siavash Moghaddam S., Jamal Omid iM. Integrative effects of Arbuscular Mycorrhizae Fungi and TiO ₂ nanoparticles on nonenzymatic antioxidants activity of Snake's Head Moldavian
14:30 15:00	Coffee break
<p align="center"><i>Continuation of the afternoon session</i></p> <p align="center">Chairpersons:</p> <p align="center">Dr. s.-agricultural sciences, Professor Persikova Tamara Filippovna, (Belarusian State Agricultural Academy),</p> <p align="center">Candidate of Biological Sciences Burachevskaya Marina Viktorovna (Southern Federal University).</p> <p align="center">Secretary: Dudnikova Tamara (Southern Federal University).</p> <p align="center">Date and venue: September 14, Dissertation Council Hall, room 203</p> <p align="center">Speaking time limit: 10-15 minutes</p> <p align="center">Link for remote connection: https://teams.microsoft.com/l/meetup-join/19%3a2b1b698c246f40fa8bc39e8728f12a95%40thread.tacv2/1694192316419?context=%7b%22Id%22%3a%2219ba435d-e46c-436a-84f2-1b01e693e480%22%2c%22Oid%22%3a%2281e9e4f2-fd1c-4352-a0c4-447d2827ee63%22%7d</p>	
15:00 15:15	Sheshnitsan Sergey Sergeevich. , Tikhonova E.N., Tsaregorodtsev A.V. Prospects of zero-tillage technology of chernozems as a form of project activity in the implementation of climate projects (online)
15:15 15:30	Fedorenko Alexey Grigirievich. , Fedorenko G.M. Application of information-entropic analysis for estimation of adaptive potential of plants
15:30 15:45	Zinchenko Vladislav Vladimirovich. , Kondakova N.V., Pashkovskaya T.G., Nazarenko O.G. Ecological assessment of soil microbiological community in the zone of pesticide burial
15:45 16:00	Tsepina Natalya Igorevna , Kolesnikov S.I. Evaluation of ecotoxicity of silver nanoparticles by integral indicator of biological state of ordinary chernozem.
16:00 16:15	Kirichkov Mikhail Viktorovich. , Minkina T.M., Nevidomskaya D.G., Shuvaeva V.A., Tsitsuashvili V.S. Use of synchrotron X-ray diffraction to assess the content of nano- and macroforms of Mn in soil and their impact on spring barley.
16:15 16:30	Mezhenkov Anton Alexandrovich. Estimation of forest belt area dynamics with application of geoinformation systems
16:30 16:45	Barsukova Ekaterina Alexeevna. , Litvinov Yu.A. Scientific-information and cartographic support of soil monitoring.

September 14.

SESSION 4. Urbogenic and technogenic landscapes and their impact on the condition of chernozems and other soils of steppe and forest-steppe zones

<p align="center"><i>Morning session</i></p> <p align="center">Chairpersons:</p> <p align="center">Dr. Khasanova Reseda Firgatovna, (Ufa University of Science and Technology, Sibai branch)</p> <p align="center">Dr. B.Sc., Gorbov Sergey Nikolaevich (Southern Federal University)</p> <p align="center">Secretary: Tagiverdiev Suleiman Samidinovich (Southern Federal University).</p> <p align="center">Date and venue: September 14, Museum of History of SFedU, room. 101</p> <p align="center">Speaking time limit: 15-20 minutes.</p>	
9:00 9:15	Gaivoronsky Vladimir Gennadievich , Kuzina A.A., Kolesnikov S.I. Stability of Crimean chernozems to oil hydrocarbon pollution
9:15 9:30	Sangadzhieva Ludmila Khalsaevna , Sangadzhieva O.S., Davayeva Ts.D., Sokhorova Z.V. Influence of anthropogenic pollution on enzymatic activity of soils and soils
9:30 9:45	Gorbov Sergey Nikolaevich , Litvinskaya S.A., Bezuglova O.S. Soil and vegetation cover as a basis for sustainability of the ecological state of the city
9:45 10:05	Sokolov Andrey Andreevich , Fomenko V.A. On the necessity of developing mathematical apparatus for monitoring of the mountain radon transfer
10:05 10:25	Salnik Nadezhda Vladimirovna , Gorbov S.N., Ivashchenko K.V. Assessment of microbial activity of urban and native soils of the steppe zone using the international "TEA BAG INDEX" approach.
10:25 10:45	Evstegneeva Natalya Andreevna , S.I. Kolesnikov, S.I. Changes in germination indices and initial growth intensity of winter wheat under tellurium contamination of ordinary chernozem.
10:45 11:05	Zamotayev Igor Viktorovich. , Konoplyanikova Y.V., Gracheva R.G., Dolgikh A. V., Mikheev P.V., Dobryansky A.S. Techno-hydro-extreme soils of sugar industry filtration fields in the Central Chernozem region
11:05 11:30	Linnik Vitaly Grigirievich. , Minkina T.M., Bauer T.V., Mandzhieva S.S. Analysis of spatial correlation of heavy metals content in soils of the impact zone of the Seversky Donets River floodplain by methods of geostatistical analysis.
11:30 12:00	Coffee break
<p align="center"><i>Afternoon session</i></p> <p align="center">Chairpersons:</p>	

Candidate of Technical Sciences, Associate Professor Sokolov Andrey Andreyevich (branch of the Southern Federal University, Gelendzhik); Candidate of Biology Mandzhieva Saglara Sergeevna (Southern Federal University). Secretary: Sherstnev Alexey Konstantinovich (Southern Federal University). Date and venue: September 14, Museum of History of SFedU, room. 101 Speaking time limit: 15-20 minutes	
12:00 12:15	Sushkova Svetlana Nikolaevna. , Plakhotin D.A., Kuz O.V. Results of monitoring of technogenic contamination of tailing dumps.
12:15 12:30	Dudnikova Tamara Sergeevna , Barbashev A.I., Nemtseva A.A., Velikaya O.S., Nikolaychuk A.A., Popov V.R. Shuvaev E.V., Khilko N.G. Intra-profile distribution of PAHs in hydromorphic soils under different anthropogenic load
12:30 12:45	Khrapai Ekaterina Sergeevna. , Kucherova A.V., Kolesnikov S.I. Ecological state of soils of the recultivated landfill site
12:45 13:00	Kocharovskaya Yulia Nikolaevna , Delean Y.A., Minkina T.M., Dudnikova T.S., Sushkova S.N. Microbial diversity and metabolic capabilities of communities of chernozem soils of Rostov region with different degree of anthropogenic load
13:00 13:15	Mikhedova Elizaveta Evgenievna. , Vasilieva G.K., Strizhakova E.R. Sorption bioremediation of mineral oil-contaminated soils in the north of Western Siberia.
13:15 13:30	Skripnikov Pavel Nikolaevich. , Gorbov S.N., Melnikova I.P., Nosov G.N. Organic and inorganic carbon stocks in the soils of Rostov-on-Don
13:30 13:45	Pulikova Elizaveta P. , Demin K.A., Gorovtsov A.V., Minkina T.M. Study of nitrifier community in soils of the sludge collector of the former Atamansky Lake.
13:45 14:00	Siromlya Tatyana Ivanovna , Chaplygin V.A., Mandzhieva S.S., Chernikova N.P. Features of the fractional composition of heavy metals in the urbozem of Novosibirsk city
14:00 14:15	Roslikova Valentina Ivanovna. , Matveenکو T.I. Pollutants in urbanized landscapes of large industrial centers of the South of the Far East.
14:15 14:30	Androkhanov Vladimir Alexeevich. , Seredina V.P., Tupikina P.A. Soils of technogenic landscapes of forest-steppe zone of Western Siberia
14:30 15:00	Coffee break
Continuation of the afternoon session Chairpersons: Dr. B.Sc., Prof. Sangadzhieva Ludmila Khalgaeвna (Kalmyk State University)	

Candidate of Biological Sciences, Associate Professor Gorovtsov Andrey Vladimirovich (Southern Federal University). Secretary: Salnik Nadezhda Vladimirovna Date and venue: September 14, Conference hall of the Academic Council of SFedU, room 120 Speaking time limit: 15-20 min. Link for remote connection: https://teams.microsoft.com/l/meetup-join/19%3a2faafd261e1744df9d967dd54c762139%40thread.tacv2/1694192389261?context=%7b%22id%22%3a%2219ba435d-e46c-436a-84f2-1b01e693e480%22%2c%22oid%22%3a%2281e9e4f2-fd1c-4352-a0c4-447d2827ee63%22%7d	
15:00 15:15	Konstantinova Elizaveta Yuryevna , Shcherbakov A.P., Barakhov A.V., Chernikova N.P., Dudnikova T.S., Barbashev A.I., Mandzhieva S.S. Ecological and geochemical assessment of soil pollution of Taganrog (online)
15:15 15:30	Mindubaev Anton Zufarovich , Babynin E.V., Minzanova S.T. Biological destruction of white phosphorus (online)
15:30 15:45	Gorbunova Nadezhda Sergeevna , Gromovik A.I., Cherepukhina I.V. Peculiarities of Lead and Cadmium Behavior in the Soil of Voronezh in the Area of Anthropogenic Emissions (online)
15:45 16:00	Yaseneva Elena Vladimirovna , Evstafieva E.V. Biogeochemical assessment of heavy metal pollution of urbanized soils in Sevastopol (online)
16:00 16:15	Tsitsuashvili Victoria Sergeevna. , Shuvaeva V.A., Nevidomskaya D.G., Burachevskaya M.V. Diagnostics of Cu carrier phases in technogenically transformed soils
16:15 16:30	Ivanov Fyodor Dmitrievich , Pulikova E.P., Gorovtsov A.V., Minkina T.M., Bauer T.V. Assessment of the influence of heavy metal pollution in nano- and micro-dispersed form on microbiological activity of hydromorphic soils
16:30 16:45	Kozmenko Svitlana Valerievna , Perelomov L.V., Burachevskaya M.V., Atroshchenko Y.M. Adsorption of lead ions by organoclays based on bentonite and anionic surfactants

SEPTEMBER 15

INTERNATIONAL SCHOOL-SEMINAR FOR YOUNG SCIENTISTS

"SOIL SCIENCE AND GLOBAL CHALLENGES OF OUR TIME: CLIMATE CHANGE, PROBLEMS OF GEO- AND BIOMEDICINE, FORENSIC SOIL SCIENCE"

Morning lectures

Chairpersons: Dr.Sc., Professor **Ergina Elena Ivanovna** (V.I. Vernadsky Crimean Federal University),

Dr. B.Sc., Professor **Minkina Tatyana Mikhailovna** (Southern Federal University).
Secretary: **Dudnikova Tamara Sergeevna** (Southern Federal University).

Conference hall of the Academic Council of the SFedU, room 120

Link for remote connection:

<https://teams.microsoft.com/l/meetup-join/19%3a2faafd261e1744df9d967dd54c762139%40thread.tacv2/1694192464941?context=%7b%22Tid%22%3a%2219ba435d-e46c-436a-84f2-1b01e693e480%22%2c%22Oid%22%3a%2281e9e4f2-fd1c-4352-a0c4-447d2827ee63%22%7d>

9:00 – 9:30	Nazarenko Olga Georgievna , Doctor of Biological Sciences, Professor, Director of Agrochemical Center "Rostovsky"	Value of chernozem as an agrarian resource
9:30 10:00	Dr. Prof. Ming Hung Wong , Professor, Head of "Bioremediation of contaminated soil ecosystems" megagrant, Scientific Director of the Laboratory "Soil Health" of the Southern Federal University, Advisor of the Educational University of Hong Kong.	Biogeochemical cycling of food contaminants and health implications
10:00 10:30	Zubkova Tatiana Alexandrovna , Doctor of Biological Sciences, Professor, Lomonosov Moscow State University, Moscow, Russia.	Geopolitical perspectives of soil use in the modern world
10:30 – 11:00	Khomyakov Dmitry Mikhailovich , Ph.D., Candidate of Biological Sciences, Professor, Lomonosov Moscow State University, Moscow	Seed supply to domestic agricultural producers: breeding, seed production, market, state policy
11:00 – 11:30	Perelomov Leonid Viktorovich , Candidate of Biology, Associate Professor, L.N. Tolstoy Tula State Pedagogical University.	Study of heavy metals behavior in soils using model three-component organomineral and bio-mineral systems
11:30 12:00	Vasilieva Galina Kirillovna , Ph.D. in Biology, Research Scientist, Institute of Physico-Chemical and Biological Problems of Soil Science, Russian Academy of Sciences.	Use of carbonaceous sorbents for increasing the efficiency of reclamation of chemically contaminated soils
12:00 12:30	Persikova Tamara Filippovna , Doctor of Agricultural Sciences,	Directions of scientific research at the Belarusian State Agricultural Academy

	Professor, Belarusian State Agricultural Academy.	
12:30 13:00	Coffee break	
13:00 13:10	Fomichev Anton Valeryevich, Investment and Product Director of the SFU Startup Studio	Investment pitch session of the "Southern Startup Factory" startup studio of the Southern Federal University
13:10 13:20	Zhumbey Anton Igorevich, junior researcher	Development of an automated information and analytical "Integral" system for calculating the integral indicator of soil fertility
13:20 13:30	Lobzenko Ilya Pavlovich, Junior Researcher	Developing technology for obtaining new-generation nanocomposites based on carbon and hybrid materials for cleaning slag and ash dumps and drainage water.
13:30	POSTER SECTION Museum of History of SFedU, room 101	
Chairpersons: Candidate of Biological Sciences, Associate Professor Tishchenko Svetlana Aleksandrovna (Southern Federal University) Candidate of Biological Sciences, Associate Professor Litvinov Yuri Alexeevich (Southern Federal University). Secretary: Vilkova Valeria Valerievna (Southern Federal University). Date and venue: September 15, Museum of History of SFU, room. 101 Working time: 13:00-15:00 Speaking time limit: 5 minutes		
Vilkova Valeria Valerievna. Influence of pyrogenic impact on ecological properties of chernozem in model experiment		
Gulyaeva Alina Yuryevna, Prazdnova E.V. Screening of genes of synthesis of bioactive substances in soil cultures of Rostov region.		
Dragun Victoria Sergeevna, Tishchenko S.A. Intensity of FDA hydrolysis of migration-segregation chernozems under waterlogging.		
Durakov Petr Petrovich. Content of heavy metals in the soil of agricultural lands located in the slope relief		
Erin Vladimir Alexandrovich., Ilyushechkin V. A., Kalashnikov N.D. Effect of mineral fertilizers on the content of exchangeable potassium in ordinary chernozem at cultivation of chickpea using No-Till technology.		
Ilyushechkin Vitaly Alexandrovich., Erin V. A., Kalashnikov N.D. Effect of mineral fertilizers on the content of mobile phosphorus in ordinary chernozem at cultivation of pea using No-Till technology.		

Kaplya Veronika Nikolaevna , Okolelova A.A., Egorova G.S. Detoxification of oil-contaminated chestnut soils of steppe zone	
Konstantinova Elixaveta Yurievna , Pulikova E. P., Konstantinov A. O., Kurasova A. O., Minkina T. M. Impact of urbanization on heavy metal and metalloid pollution of urban soils of Tyumen (online)	
Krepakova M.R. , Alliluev I.A. Proline content in <i>Hordeum vulgare</i> L when grown in the presence of cadmium oxide nanoparticles	
Mikayil Reshat Farizovich , Hazar E.A., Bolotov A.G., Shein E.V., Erdel E., Mikayilsoy F.D. Determination of thermal properties of soil of Iğdır province (Turkey) in summer season.	
Oleksenko Artem Andreevich , Goncharova L.Yu. Physical properties of ordinary carbonate chernozem on the polygons for sports competitions of agricultural machinery	
Rudova Darya Yevgenyevna , Tishchenko S.A. Variation of ferriredutase activity of chernozem migratory-segregating chernozem in a locally overwatered landscape	
Ruseva Anna Stepanovna. , Minnikova T.V. Total bacterial abundance of diesel-polluted ordinary chernozem under biochar remediation	
Sobina Anastasia Sergeevna , Kazeev K.S. Changes in biological activity of chernozem at transition to zero tillage technology	
Fedorenko Anastasia Nikolayevna , Mokrikov G.V., Kazeev K.S. Influence of cover crops on enzymatic activity of chernozem at zero tillage technology.	
Khrustieva Yulia Alekseevna , Kravtsova N.E. Variability of mobile phosphorus content in ordinary carbonate chernozems of Rostov region.	
Chebykina Ekaterina Yuryevna .Forest fires as a factor of soil formation in forest-steppe zone.	
Shevchenko Alena Olegovna . Change of polyphenol oxidase activity in migration-segregation chernozems under waterlogging	
Ahmed A. Abdelhafez , Mohamed H.H. Abbas, Shawky M. Metwally, Hassan H. Abbas, Aya Sh. Metwally, Rasha R.M. Mansour. Soil Health as a Function of Human Health: A Viewpoint	
Draupadi M. Dhage , Pramod U. Ingle, Aniket K. Gade, Yogesh D. Akhare. Synthesis and characterization of Zinc oxide nanoparticles using fresh water <i>Hydrilla</i> spp.	
Sarieh Tarigholizadeh , Rouhollah Motafakkerazad, Seyed Yahya Salehi-Lisar, Elham Mohajel Kazemi, Svetlana Sushkova, Tatiana Minkina Investigating phenanthrene accumulation and distribution pattern in proso millet tissues.	
15:00	Coffee break
15:30	
15:30 17:00	Round table "Legal and economic aspects of soil protection as objects of environmental protection" <i>Chairperson: Morozov Igor Vadimovich</i> <i>Secretary: Boldyreva Veronika Eduardovna</i> Date and venue: September 15, Conference hall of the Academic Council of SFU, room. 120 Working time: 14:30-16:00 Link for remote connection: https://teams.microsoft.com/l/meetup-join/19%3a2faafd261e1744df9d967dd54c762139%40thread.tacv2/1694192464941?context=%7b%22Tid%22%3a%2219ba435d-e46c-436a-84f2-1b01e693e480%22%2c%22Oid%22%3a%2281e9e4f2-fd1c-4352-a0c4-447d2827ee63%22%7d

17:00	End of conference
18:00	

September 16.

Start 9:00 End 17:00

Field trip to the long-term experience of contour-landscape farming of the Federal Rostov Agrarian Scientific Center, chernozems of different degrees of washout (slope of south-western exposure 3 transects) and sod-soil (1 transect).

Lunch in "Tatiana" cafe in Rassvet village.

Cultural program: acquaintance with the sights of the capital of the Don Cossacks (Starocherkasskaya stanitsa).

Visit to “Don” – the first golf course in the south of Russia

Gathering for the excursion is at 9:00 near the main building (105 Bolshaya Sadovaya St.)

THE CONFERENCE WILL BE HELD AT:

Rostov-on-Don

Bolshaya Sadovaya Street, 105

Southern Federal University

<http://sfedu.ru>

conference website www.chernozem.dssac.ru

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