



Alliance of International Science Organizations



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university



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The International Conference “Soil Health and Stability under Global Change”

SCIENTIFIC PROGRAM

September, 7-11, 2026
Moscow-Pushchino, Russia

Welcome remarks

Soil Health and Stability under Global Change conference organised in the frame of the Alliance of International Science Organisations for the Belt and Road Region. The conference will focus on issues of relevance to soil science and ecology, such as soil monitoring technologies, the stabilisation of soil organic matter, and the functioning of soil biota in the context of global change.



«Soil health is the living foundation of every ecosystem. It quietly shapes everything from plant and biodiversity to water quality and human well-being. That is why any serious conversation about an ecology must begin with the soil health»

Elvira Dovletyarova, Director of Agrarian and Technological Institute of RUDN University, Member of the Public Chamber of Moscow (Russia)

«Soil is the foundation of food security, ecosystem stability and sustainable development, and safeguarding its health under global change is a responsibility we share across borders. Organised in the frame of the Alliance of International Science Organisations in the Belt and Road Region, this conference brings together leading scientists from China, Russia and many other countries to exchange the latest advances in soil health research and monitoring. I am confident that our discussions in the coming days will deepen the China-Russia partnership and pave the way for a joint soil observation network and long-term cooperation. I wish you all a fruitful conference and a pleasant stay in Moscow»



Chunsheng Hu, Former Director of Center for Agricultural Resources Research, Institute of Genetics and Developmental Biology, Chinese Academy of Sciences (China)

Welcome remarks



«On behalf of the V.A. Kovda Institute of Physicochemical and Biological Problems in Soil Science of the Russian Academy of Sciences, I welcome you. Our conference is dedicated to a topic that defines the future of our planet – the resilience of soils during a period of global change. Today, as the climate agenda takes center stage, the role of the soil cover as a crucial link in ecosystem stability becomes evident. Our event brings together researchers from diverse fields with the aim of finding answers to current challenges. The exchange of experience and knowledge within the conference will make a significant contribution to the development of soil science and will enable the formulation of practical solutions for preserving our most valuable resource. Welcome, and may this conference be productive for each of you!»

Andrey Alekseev, Director of V.A. Kovda Institute of Physicochemical and Biological Problems in Soil Science of the Russian Academy of Sciences – RAS,
Corresponding Member of the RAS (Russia)

Sponsoring Organisation

The Alliance of International Science Organizations (ANSO)

Conference Organisers

Center for Agricultural Resources Research, Institute of Genetics and Developmental Biology, Chinese Academy of Sciences, Shijiazhuang, Hebei, China

Laboratory of Carbon Monitoring in Terrestrial Ecosystems, V.A. Kovda Institute of Physicochemical and Biological Problems in Soil Science of the Russian Academy of Sciences, Pushchino, Russia

Smart Urban Nature research center, Agrarian and Technological Institute of RUDN University, Moscow, Russia

Scientific Committee

Chunsheng Hu, the Former Director of Center for Agricultural Resources Research, Institute of Genetics and Developmental Biology, Chinese Academy of Sciences (China)

Elvira Dovletyarova, Director of Agrarian and Technological Institute of RUDN University, Member of the Public Chamber of Moscow (Russia)

Andrey Alekseev, Director of V.A. Kovda Institute of Physicochemical and Biological Problems in Soil Science of the Russian Academy of Sciences, Corresponding Member of the RAS (Russia)

Wenxu Dong, Principal Investigator of Center for Agricultural Resources Research, Institute of Genetics and Developmental Biology, Chinese Academy of Sciences (China)

Kristina Ivashchenko, Head of the Laboratory of Carbon Monitoring in Terrestrial Ecosystems, V.A. Kovda Institute of Physicochemical and Biological Problems in Soil Science of the Russian Academy of Sciences (Russia)

Maria Korneykova, Director of Smart Urban Nature research center, Agrarian and Technological Institute of RUDN University (Russia)

Organising Committee

Center for Agricultural Resources Research, Institute of
Genetics and Developmental Biology, Chinese Academy of
Sciences, Shijiazhuang, Hebei, China:

Hongmei Wang

Wenxu Dong

V.A. Kovda Institute of Physicochemical and Biological Problems
in Soil Science of the Russian Academy of Sciences, Pushchino,
Russia:

Viktoria Makhantceva

Kristina Ivashchenko

Sofia Sushko

Vlad Sokolov

Gulfina Frolova

Aleksey Portnov

Ekaterina Mukvich

Antonina Grigorova

Aleksei Dobrokhoto

Yuri Dvornikov

Anna Zhuravleva

Agrarian and Technological Institute of RUDN University, Moscow,
Russia:

Vlad Plushchikov

Maria Korneykova

Inna Kanareykina

Counsellors of the Chinese Embassy in Moscow

Gan Zhang

Hao Zhong

Keynote speakers



Xiying Zhang

Professor and Doctoral Supervisor, Center for Agricultural Resources Research, Institute of Genetics and Developmental Biology, Chinese Academy of Sciences; Chief Scientist of the Water-Saving Agriculture Research Team; Editor-in-Chief of Agricultural Water Management; PhD in Agronomy, University of Tokyo, Japan

Expertise: mechanisms and technologies of farmland water saving, water transfer in the soil-plant-atmosphere continuum, deficit and limited irrigation, root growth and soil water use, crop water use efficiency, saline water irrigation in the North China Plain



Sergey Blagodatsky

Dr of Biological Sciences, Research Fellow, Karlsruhe Institute of Technology, Germany

Expertise: microbial growth theory, soil microbial biomass dynamics, modelling and measuring of N_2O , CH_4 and CO_2



Meena Bohara

PhD, Senior Researcher, Climate Change, Ecology and Environment, ForestAction Nepal; PhD in Ecology, University of Chinese Academy of Sciences (CAS-TWAS President's Fellowship); Coordinating Lead Author of the Global Environment Outlook-7 (Asia-Pacific)

Expertise: forest ecology and nature conservation, plant and soil nutrient dynamics, litter decomposition, soil organic carbon dynamics, climate change adaptation, ecosystem-based and nature-based solutions

Keynote speakers



Yakov Kuzyakov

Professor, University of Göttingen; Head of Soil Science of Temperate Ecosystems, Germany; RUDN University; Sirius University of Science and Technology, Russia

Expertise: Ecosystem sustainability and soil ecology, rhizosphere ecology, C and N cycles, priming effects, partitioning of CO₂ sources, stable & radioactive isotopes' applications



Mahmoud Hozayn

Professor, Department of Field Crops Research, Division of Agricultural and Biological Research, National Research Centre (NRC), Cairo, Egypt; Acting Director and Deputy Director of the Agricultural and Biological Research Institute, NRC

Expertise: Agricultural magnetic technology, magnetic water treatment for salinity stress mitigation, crop productivity enhancement under arid and semi-arid conditions, water use efficiency, agronomic optimization, environmental stress physiology, sandy soil management, field crops research



Alexander Neaman

PhD in Soil Science, Full Professor, School of Agricultural Sciences, University of Tarapacá, Chile

Expertise: soil ecotoxicology, soil environmental chemistry, soil remediation

Keynote speakers



Chunsheng Hu

Professor and the former Director of the Center for Agricultural Resources Research, Institute of Genetics and Developmental Biology, Chinese Academy of Sciences; Vice President of the Ecological Society of China

Expertise: Carbon, nitrogen and water cycling in agroecosystems, soil ecological processes, greenhouse gas (N_2O) emissions, nitrate leaching and deep-profile carbon stability, conservation tillage, soil carbon sequestration, water and nitrogen management, long-term field experiments



Tusheng Ren

Professor and Doctoral Supervisor at the College of Land Science and Technology, China Agricultural University; Fellow of the Soil Science Society of America; PhD in Soil Science, University of Alberta, Canada; postdoctoral research at Iowa State University, USA

Expertise: Experimental soil physics, coupled transport of water, heat, and solutes in soils, thermo-TDR sensor development, soil structure and crop growth, conservation tillage, monitoring and modeling of soil physical processes, integrated utilization of water and land resources, cultivated land quality assessment



Yonghui Yang

Professor and Doctoral Supervisor, Center for Agricultural Resources Research, Institute of Genetics and Developmental Biology, Chinese Academy of Sciences (CAS); Deputy Director of the CAS Center for Water Resources Research; PhD in Sciences, Chiba University, Japan; Lifetime Member of Clare Hall, University of Cambridge

Expertise: hydrological cycle and sustainable water resources management, impacts of human activities and climate change on the water cycle, agricultural water use assessment, evapotranspiration remote sensing, land-food-water nexus and food security

General information

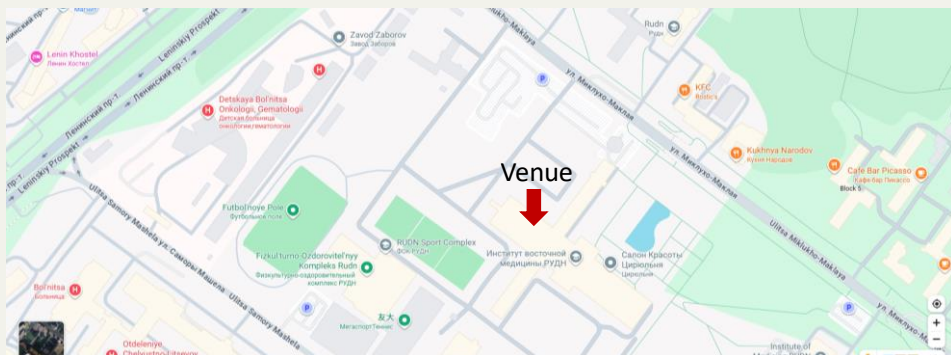
Meeting Time

Conference: September, 7-9

Workshop: September, 10

Conference Venue

Peoples' Friendship University of Russia (RUDN University), 6
Miklukho-Maklaya Street, Moscow
(Conference Hall, Law Institute)



Lunch

The RUDN University canteen will be serving lunch for participants

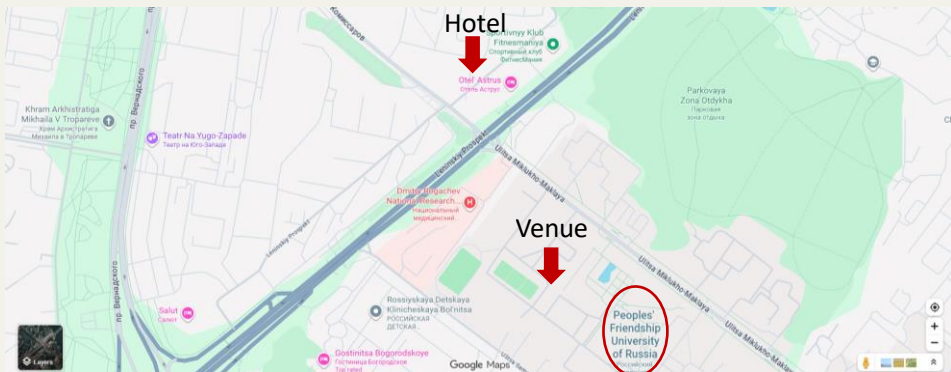
Workshop Venue

V.A. Kovda Institute of Physicochemical and Biological Problems
in Soil Science of the Russian Academy of Sciences, Pushchino,
Russia

Transfer will be provided for participants, departing from the
Astrus Hotel.

Accommodation

The Organising Committee advises that you consider hotels located in close proximity to the conference venue: **Astrus** <https://astrus.ru>. Accommodation expenses shall be settled directly with the hotel by participants, and invoices will be issued by the hotel.



Tel.+7 (495) 641-10-00

Program overview

Day 1 (7th September)

8:00-9:00	Registration	Law Institute, RUDN University, Moscow
9:00-9:20	Opening Ceremony	Conference Hall of Law Institute
9:20-16:45	Session 1. The condition and stability of soils in different ecosystems under the anthropogenic impact	

Day 2 (8th September)

8:30-09:40	Registration	Law Institute, RUDN University, Moscow
09:40-17:25	Session 2. Methodological aspects and results of monitoring soil health and greenhouse gas emissions in terrestrial ecosystems	Conference Hall of Law Institute

Day 3 (9th September)

08:00-11:00	Session 3. Organo-mineral interactions in soil and the role of microorganisms in soil organic matter stabilization	Conference Hall of Law Institute
11:00-12:30	Plenary Session of the Smart and Sustainable Cities conference	Assembly Hall, Main Building of RUDN University
12:40-13:25	Session 3. Organo-mineral interactions in soil and the role of microorganisms in soil organic matter stabilization	Conference Hall of Law Institute
13:25-13:40	Closing Ceremony	

Day 4 (10th September)

09:00-18:00	Workshop in V.A. Kovda Institute of Physicochemical and Biological Problems in Soil Science of the Russian Academy of Sciences	Pushchino, Moscow region
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Day 5 (11th September)

09:00-15:00	Visiting the exhibition "Journey through Russia"	The National Centre RUSSIA, Moscow
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Conference Program

Day 1 (7th September)

Opening ceremony	Elvira Dovletyarova, Director of Agrarian and Technological Institute of RUDN University, Member of the Public Chamber of Moscow (Russia)
9:00-9:20	Chunsheng Hu, the Former Director of Center for Agricultural Resources Research, Institute of Genetics and Developmental Biology, Chinese Academy of Sciences (China)
	Can Zhang, Counsellors of the Chinese Embassy in Moscow
	Hao Zhong, Counsellors of the Chinese Embassy in Moscow
Session 1	The condition and stability of soils in different ecosystems under the anthropogenic impact
	Chairs: Mahmoud Hozayn (Egypt) & Dianming Wu (China)
9:20-9:40	Tusheng Ren
keynote speaker	Does no-till farming lead to soil compaction and reduced water infiltration? <i>China Agricultural University (China)</i>
9:40-10:00	Mahmoud Hozayn
keynote speaker	Application of agro-physics technology as an innovation tool for improving soil health and crop productivity under global climate change (Case study) <i>National Research Centre (Egypt)</i>
10:00-10:15	Zhimei Sun
	Technology for rapid soil carbon sequestration and quality improvement in medium- and low-yield farmlands <i>Hebei Agricultural University (China)</i>
10:15-10:30	Sergey Gorbov
	Diagnostic horizons of natural and anthropogenically transformed soils of the Imereti lowland and adjacent foothills <i>Sirius University of Science and Technology (Russia)</i>

Day 1 (7th September)

Session 1	The condition and stability of soils in different ecosystems under the anthropogenic impact
	Chairs: Mahmoud Hozayn (Egypt) & Dianming Wu (China)
10:30-10:45	Varvara Lifanova Changes in the properties of mountain tundra soils in the Khibiny Mountains with climate warming and the expansion of ericaceous dwarf shrubs <i>Faculty of Soil Science, Lomonosov Moscow State University, Moscow (Russia)</i>
10:45-11:00	Coffee/tea break
11:00-11:15	Ekaterina Kozlova Disturbance shapes the soil microbiome of Arctic cities: bacterial and fungal community responses to urbanization <i>RUDN University (Russia)</i>
11:15-11:30	Dongxiao Li Irrigation and fertilization technology for enhancing wheat productivity <i>Hebei Agricultural University (China)</i>
11:30-11:45	Anastasiia Kuznetsova Estimate of soil organic carbon stocks in the Moscow forest-park green belt (Bogdanovskiy and Valuevskiy forest park, Moscow Region) <i>Isaev Centre for Forest Ecology and Productivity of the Russian Academy of Sciences (Russia)</i>
11:45-12:00	Liwei Shao Research on the technology of efficient root-canopy expansion for improving crop water and nutrient utilization <i>Center for Agricultural Resources Research, Institute of Genetics and Developmental Biology, Chinese Academy of Sciences (China)</i>

Day 1 (7th September)

Session 1	The condition and stability of soils in different ecosystems under the anthropogenic impact Chairs: Mahmoud Hozayn (Egypt) & Dianming Wu (China)
12:00-12:15	Nadezhda Bakaeva Assessment of some soil properties of urban communities on the territory of Lomonosov Moscow State University on the Lenin Hills <i>M.V. Lomonosov Moscow State University (Russia)</i>
12:15-12:30	Shichao Wang Establishing Alfalfa planting year and groundwater depth as integrated ecological indicators for coastal salinity management <i>Center for Agricultural Resources Research, Institute of Genetics and Developmental Biology, Chinese Academy of Sciences (China)</i>
12:30-14:00	Lunch RUDN University canteen, second floor of main building
Session 1	The condition and stability of soils in different ecosystems under the anthropogenic impact Chairs: Alexander Neaman (Chile) & Yonghui Yang (China)
14:00-14:20	Alexander Neaman keynote speaker Copper toxicity thresholds for earthworms: Insights from a site with unique monometallic soil contamination <i>University of Tarapaca (Chile)</i>
14:20-14:40	Yonghui Yang keynote speaker Land use change and its influence on food production and water resources in last 100 years in Central Asia <i>Center for Agricultural Resources Research, Institute of Genetics and Developmental Biology, Chinese Academy of Sciences (China)</i>

Day 1 (7th September)

Session 1	The condition and stability of soils in different ecosystems under the anthropogenic impact Chairs: Alexander Neaman (Chile) & Yonghui Yang (China)
14:40-14:55	Maxim Bobrovsky Stability of sandy Anthrosols at hillforts of the Early Iron Age <i>V.A. Kovda Institute of Physicochemical and Biological Problems in Soil Science of RAS (Russia)</i>
14:55-15:10	Viktor Chaplygin Fractional composition of heavy metals in wild medicinal plants of impact zones of the Rostov and Novosibirsk regions <i>Academy of Biology and Medicine, Southern Federal University (Russia)</i>
15:10-15:25	Denis Kozyrev Anthropogenic soil transformation in modern aquaculture <i>Agribusiness Faculty, Don State Technical University (Russia)</i>
15:25-15:40	Shumin Han Spatiotemporal patterns of farmland and agricultural water use efficiency in the Amu Darya River Basin <i>Center for Agricultural Resources Research, Institute of Genetics and Developmental Biology, Chinese Academy of Sciences (China)</i>

Day 1 (7th September)

Session 1	The condition and stability of soils in different ecosystems under the anthropogenic impact Chairs: Alexander Neaman (Chile) & Yonghui Yang (China)
15:40-15:55	Xiuping Liu Synergistic and decoupling mechanisms of carbon-energy metabolic thresholds in C3/C4 crops under long-term nutrient gradients <i>Center for Agricultural Resources Research, Institute of Genetics and Developmental Biology, Chinese Academy of Sciences (China)</i>
15:55-16:15	Coffee/tea break
16:15-16:30	Zhipin Ai The contribution of irrigation to agricultural production and the sustainability of irrigation under climate change <i>Institute of Geographic Sciences and Natural Resources Research, CAS (China)</i>
16:30-16:45	Ameet Kumar Soil physical constraints override nutrient and thermal management in limiting root growth and grain yield after 22 years of no-tillage: Evidence from three complementary field experiments <i>Faculty of Agricultural Engineering, Sindh Agriculture University (Pakistan)</i>

Day 2 (8th September)

Session 2	Methodological aspects and results of monitoring soil health and greenhouse gas emissions in terrestrial ecosystems Chairs: Natalya Buchkina (Russia) & Tusheng Ren (China)
9:40-10:00	Xiying Zhang
keynote speaker	Long-term changes in soil organic carbon under different cropping system and irrigation strategies: A case study in the North China Plain <i>Center for Agricultural Resources Research, Institute of Genetics and Developmental Biology, Chinese Academy of Sciences (China)</i>
10:00-10:20	Yakov Kuzyakov
keynote speaker	Approaches to evaluate soil health <i>Department of Soil Science of Temperate Ecosystems, Department of Agricultural Soil Science, Georg August University of Göttingen (Germany); RUDN University; Sirius University of Science and Technology (Russia)</i>
(online)	
10:20-10:35	Maria Temofeeva
	Is permanganate oxidizable carbon (POXC) applicable as an indicator of soil quality? <i>V.V. Dokuchaev Soil Science Institute (Russia)</i>
10:35-10:50	Kristina Ivashchenko
	Soil enzymes activity and C:N:P stoichiometry in subalpine meadow under treeline shift for reserved and grazed mountains slopes <i>V.A. Kovda Institute of Physicochemical and Biological Problems in Soil Science of RAS (Russia)</i>
10:50-11:30	Coffee/tea break

Day 2 (8th September)

Session 2	Methodological aspects and results of monitoring soil health and greenhouse gas emissions in terrestrial ecosystems Chairs: Natalya Buchkina (Russia) & Tusheng Ren (China)
11:30-11:45	Yuying Wang CO₂ and N₂O dynamics across the 0-100 cm soil profile in an alpine grassland: fluxes, concentrations, and $\delta^{13}\text{C}/\delta^{15}\text{N}$ isotopes <i>Southwest Minzu University (China)</i>
11:45-12:00	Vadim Lebedev Artificial intelligence for estimation of nitrogen demand and losses in soil ecosystems <i>Branch of the Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry (Russia)</i>
12:00-12:15	Wenxu Dong Inorganic carbon loss from soil is driven by CO₂ rather than by nitrification induced by acidification after nitrogen fertilization <i>Center for Agricultural Resources Research, Institute of Genetics and Developmental Biology, Chinese Academy of Sciences (China)</i>
12:15-12:30	Aleksei Dobrokhoto N-fertiliser form and environmental drivers of N₂O fluxes in Albic Retisols under contrasting long-term manure application <i>Agrophysical Research Institute; V.A. Kovda Institute of Physicochemical and Biological Problems in Soil Science of RAS (Russia)</i>
12:30-14:00	Lunch RUDN University canteen, second floor of main building

Day 2 (8th September)

Session 2	Methodological aspects and results of monitoring soil health and greenhouse gas emissions in terrestrial ecosystems Chairs: Andrey Dolgikh (Russia) & Xin Zhao (China)
14:00-14:20	Sergey Blagodatsky
keynote speaker	Simulation of CO ₂ and CH ₄ emissions from peatlands and organic soils with LDNDNC model
(online)	<i>Karlsruhe Institute of Technology Garmisch-Partenkirchen (Germany)</i>
14:20-14:35	Xiaoxin Li
	Long-term effects of nitrogen fertilizer input on N ₂ O and N ₂ emission in North China Plain
	<i>Center for Agricultural Resources Research, Institute of Genetics and Developmental Biology, Chinese Academy of Sciences (China)</i>
14:35-14:50	Daria Mukhina
	Carbon dioxide and nitrous oxide emissions from Albic Retisols under the effect of long-term liming
	<i>Agrophysical Research Institute (Russia)</i>
14:50-15:05	Xin Zhao
	Quantifying heterotrophic and autotrophic soil respiration: A root-allometry-based model for assessing forest soil carbon flux under global change
	<i>Center for Agricultural Resources Research, Institute of Genetics and Developmental Biology, Chinese Academy of Sciences (China)</i>
15:05-15:20	Dmitry Nikitin
	Results of monitoring soil health indicators and greenhouse gas emissions on Alexandra Land Island in the Franz Josef Land archipelago
	<i>V.V. Dokuchaev Soil Science Institute (Russia)</i>

Day 2 (8th September)

Session 2	Methodological aspects and results of monitoring soil health and greenhouse gas emissions in terrestrial ecosystems Chairs: Andrey Dolgikh (Russia) & Xin Zhao (China)
15:20-15:35	Hongjun Li Evaluating different non-destructive estimation methods for winter wheat nitrogen status based on canopy spectrum <i>Center for Agricultural Resources Research, Institute of Genetics and Developmental Biology, Chinese Academy of Sciences (China)</i>
15:35-15:50	Anna Gorbacheva Mapping soil carbon stocks and sequestration for regional policy planning <i>HSE University, International Laboratory of Landscape Ecology (Russia)</i>
15:50-16:10	Coffee/tea break
16:10-16:25	Dianming Wu Soil HONO emissions: what we know and what we don't know <i>East China Normal University (China)</i>
16:25-16:40	Baodi Dong Regulatory mechanism of long-term irrigation on annual water-carbon productivity <i>Center for Agricultural Resources Research, Institute of Genetics and Developmental Biology, Chinese Academy of Sciences (China)</i>
16:40-16:55	Ekaterina Mukvich Spatiotemporal change indexes of the soil carbon cycle: a case study of two districts in the Moscow region <i>V.A. Kovda Institute of Physicochemical and Biological Problems in Soil Science of RAS (Russia)</i>

Day 2 (8th September)

Session 2	Methodological aspects and results of monitoring soil health and greenhouse gas emissions in terrestrial ecosystems Chairs: Andrey Dolgikh (Russia) & Xin Zhao (China)
16:55-17:10	Maria Medvedeva General theoretical foundations of the organization of microbiological monitoring of Russian soils <i>Institute of Forest Science of the Russian Academy of Sciences (Russia)</i>
17:10-17:25	Andrey Dolgikh Soil carbon dioxide emissions in Moscow's urban green infrastructure facilities - 8 years of measurement experience <i>Institute of Geography, Russian Academy of Sciences (Russia)</i>

Day 3 (9th September)

Session 3	Organo-mineral interactions in soil and the role of microorganisms in soil organic matter stabilization Chairs: Meena Bohara (Nepal) & Kristina Ivashchenko (Russia)
8:00-8:20	Chunsheng Hu
keynote speaker	Soil microbes and the carbon to nitrogen ratio indicate priming effects across terrestrial ecosystems <i>Center for Agricultural Resources Research, Institute of Genetics and Developmental Biology, Chinese Academy of Sciences (China)</i>
8:20-8:40	Meena Bohara
keynote speaker	Soil organic carbon dynamics and climate change mitigation potential in Nepal's forest and agricultural landscapes <i>Climate Change, Ecology & Environment Forest Action (Nepal)</i>
8:40-8:55	Larisa Khanina
	Soil microbial communities in old-growth broadleaved forests after windthrows <i>Institute of Mathematical Problems of Biology of RAS, a branch of the M.V. Keldysh IAM RAS (Russia)</i>
8:55-09:10	Jiansheng Gao
	Contrasting preferential flow responses in heterogeneous rock-soil media: implications for mountain ecohydrology <i>Center for Agricultural Resources Research, Institute of Genetics and Developmental Biology, Chinese Academy of Sciences (China)</i>
09:10-09:25	Leonid Perelomov
	Adsorption of antibiotics by natural and chemically modified clay minerals <i>Tula State Lev Tolstoy Pedagogical University (Russia)</i>

Day 3 (9th September)

Session 3	Organo-mineral interactions in soil and the role of microorganisms in soil organic matter stabilization Chairs: Meena Bohara (Nepal) & Kristina Ivashchenko (Russia)
09:25-09:40	Zhou Jingxiong Response of soil organic carbon and inorganic carbon profile distribution to salinity gradient <i>Center for Agricultural Resources Research, Institute of Genetics and Developmental Biology, Chinese Academy of Sciences (China)</i>
09:40-9:55	Sofia Sushko Soil organic carbon pools in agricultural Chernozems <i>V.A. Kovda Institute of Physicochemical and Biological Problems in Soil Science of RAS (Russia)</i>
9:55-10:10	Hongliang Wu The fate of microbial necromass carbon in typical Chinese agricultural systems <i>Center for Agricultural Resources Research, Institute of Genetics and Developmental Biology, Chinese Academy of Sciences (China)</i>
10:10-10:25	Igor Danilin Thermodynamic properties of crop rhizosphere organic matter under varying moisture regimes <i>V.V. Dokuchaev Soil Science Institute (Russia)</i>
10:25-10:40	Evgeny Abakumov Humification and stabilisation of organic matter: theory of soil formation <i>Saint-Petersburg State University (Russia)</i>
10:40-11:00	Coffee/tea break
11:00-12:30	Plenary Session of the Smart and Sustainable Cities conference (Assembly Hall of the Main Building of RUDN University)

Day 3 (9th September)

Session 3	Organo-mineral interactions in soil and the role of microorganisms in soil organic matter stabilization Chairs: Meena Bohara (Nepal) & Kristina Ivashchenko (Russia)
12:40-12:55	Anna Kvitkina Effect of the C:N ratio on the mineralization and humification of individual organic substances and soil minerals <i>V.A. Kovda Institute of Physicochemical and Biological Problems in Soil Science of RAS (Russia)</i>
12:55-13:10	Anna Yudina Linking aggregate-scale pore structure to plant water acquisition: A 4D X-ray CT study of wheat roots in Chernozem <i>V.V. Dokuchaev Soil Science Institute (Russia)</i>
13:10-13:25	Maria Gertsen The development of bioorganic compositions for degradation of crude oil and petroleum products in environmental objects <i>Tula State Pedagogical University Lev Tolstoy (Russia)</i>
13:25-13:40	Closing Ceremony Conference Outcomes and warm wishes from the conference organisers
13:40-14:40	Lunch RUDN University canteen, second floor of main building

Day 4 (10th September)

9:00-11:00	Transfer from Astrus hotel (Moscow) to Pushchino (Moscow region)
11:00-12:00	Andrey Alekseev <i>Director of V.A. Kovda Institute of Physicochemical and Biological Problems in Soil Science of the Russian Academy of Sciences (Russia)</i>
workshop	Chunsheng Hu <i>Former Director of Agricultural Resources Research Center, Institute of Genetics and Developmental Biology, Chinese Academy of Sciences (China)</i>
12:00-12:30	Coffee/tea break
12:30-13:00	Institute's laboratories visiting
13:15-14:00	Lunch
14:00-15:00	Sightseeing
15:00-16:00	Visiting Pushchino Ecological-Climatic Station
16:00-18:00	Transfer to Astrus hotel (Moscow)

Day 5 (11th September)
Post-conference tour

9:00-16:00

The National Centre RUSSIA (Moscow)

Visiting the exhibition "Journey through Russia"

This is a unique opportunity to travel from Vladivostok to Kaliningrad without leaving Moscow. Spanning more than 3,000 square meters, dozens of interactive exhibits present the highlights of Russia's federal districts, showcasing their achievements, culture, science and nature.

