



НАУЧНО-ПРАКТИЧЕСКАЯ  
КОНФЕРЕНЦИЯ ПО ВОПРОСАМ  
ИЗМЕНЕНИЯ КЛИМАТА  
И ТАЯНИЯ ВЕЧНОЙ МЕРЗЛОТЫ

RESEARCH AND TRAINING  
CONFERENCE  
ON CLIMATE CHANGE  
AND PERMAFROST THAWING

PROGRAMME  
CLIMATE CHANGE AND PERMAFROST MELTING RESEARCH AND TRAINING  
CONFERENCE

Yakutsk

22–24 March 2023

22 March, Wednesday

10:00–11:20

*Venue: Academic  
Council Hall at the  
Educational and  
Laboratory Building  
of Ammosov North-  
Eastern Federal  
University*

*Address: 58  
Belinskovo St.*

**Opening of the Climate Change and Permafrost Melting Research and Training Conference ‘Sustainability of Natural and Technical Permafrost Systems amidst Climate Change’**

**Organizer:** Melnikov Permafrost Institute of the Siberian Branch of the Russian Academy of Sciences

**Moderator:**

**Mikhail Zheleznyak**, Doctor of Geological Mineralogical Sciences; Corresponding Member, Russian Academy of Sciences; Director, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**Welcome address:**

**Alexander Akimov**, Deputy Chairman, Russian Federation Council’s Committee on Federal Structure, Regional Policy, Local Self-Government, and Northern Affairs

**Nikolay Korchunov**, Ambassador-at-Large of the Ministry of Foreign Affairs of the Russian Federation; Chair, Arctic Senior Officials

**Speakers:**

**Viktor Shepelev**, Doctor of Geological Mineralogical Sciences; Professor, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**Vladimir Romanovsky**, Candidate of Geological Mineralogical Sciences; Professor, University of Alaska Fairbanks, USA

**Vladimir Semyonov**, Academician, Russian Academy of Sciences, Deputy Director, Obukhov Institute of Atmospheric Physics, Russian Academy of Sciences

**Alexander Fyodorov**, Doctor of Geological Sciences; Deputy Director, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**Nikita Demidov**, Candidate of Geological Mineralogical Sciences, Arctic and Antarctic Research Institute

**Mikhail Grigoryev**, Doctor of Geological Sciences; Deputy Director, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**10:00–11:20** Popular science lectures by leading scientists on the conference theme

*Research Library in the Main Academic Building of Ammosov North-Eastern Federal University*  
Address: 42 Kulakovskovo St.

**Organizer:** Ammosov North-Eastern Federal University

**Moderator: Leonid Nikiforov**, Candidate of Technical Sciences; Director, Information and Analytical Division, Department of Science and Innovation, Ammosov North-Eastern Federal University

**Speakers:**

**Moisey Zakharov**, Candidate of Geological Sciences; Associate Professor, Ecological and Geographical Division, Institute of Natural Sciences, Ammosov North-Eastern Federal University

**Trofim Maximov**, Doctor of Biological Sciences; Deputy General Director for Science and International Projects, Yakutsk Scientific Centre, Siberian Branch of the Russian Academy of Sciences

**11:20–11:40** Coffee break

**11:40–13:00** Research and Training Conference ‘Sustainability of Natural and Technical Permafrost Systems amidst Climate Change’

*Venue: Academic Council Hall at the Educational and Laboratory Building of Ammosov North-Eastern Federal University*  
Address: 58 Belinskovo St.

**Organizer:** Melnikov Permafrost Institute of the Siberian Branch of the Russian Academy of Sciences

Section ‘Current State and Dynamics of Subaqueous and Continental Permafrost’

**Moderators:**

**Mikhail Zheleznyak**, Doctor of Geological Mineralogical Sciences; Corresponding Member, Russian Academy of Sciences; Director, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**Mikhail Grigoryev**, Doctor of Geological Sciences; Deputy Director, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**Speakers:**

**Dmitry Drozdov**, Doctor of Geological Mineralogical Sciences, Deputy Director, Earth Cryosphere Institute, Tyumen Scientific Centre, Siberian Branch of the Russian Academy of Sciences

**Yendon Garmayev**, Corresponding Member, Russian Academy of Sciences, Baikal Institute of Nature Management, Siberian Branch of the Russian Academy of Sciences

**Anatoly Brushkov**, Doctor of Geological Mineralogical Sciences; Department Chair, Lomonosov Moscow State University

**Andrey Alexeyev**, Candidate of Technical Sciences, Director, Geocryological and Geotechnical Research Centre, Research Centre of Construction

**Vladimir Spektor**, Doctor of Geological Mineralogical Sciences; Senior Researcher, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**Andrey Melnikov**, Candidate of Geological Mineralogical Sciences, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**Andrey Kartoziya**, Candidate of Geological Mineralogical Sciences, Sobolev Institute of Geology and Mineralogy, Siberian Branch of the Russian Academy of Sciences

**Vladimir Tumskoy**, Candidate of Geological Mineralogical Sciences, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**11:40–13:00**

*Research Library in  
the Main Academic  
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University  
Address: 42  
Kulakovskovo St.*

**Popular science lectures by leading scientists on the conference theme****Organizer:** Ammosov North-Eastern Federal University**Moderator:** **Leonid Nikiforov**, Candidate of Technical Sciences; Director, Information and Analytical Division, Department of Science and Innovation, Ammosov North-Eastern Federal University**Speakers:**

**Roman Kolesnikov**, Candidate of Geological Sciences; Director, Environmental Protection Research Sector, Scientific Centre for Arctic Studies

**Tatyana Sakhratova**, Research Fellow, Science Policy Office, Bauman Moscow State Technical University

**Nikita Tananayev**, Candidate of Geological Sciences; Leading Research Fellow, General Geocryology Laboratory, Siberian Branch of the Russian Academy of Sciences; Director, Research Laboratory for the Study of Climate and Ecosystems of the Northern Regions, Institute of Natural Sciences, Ammosov North-Eastern Federal University

**13:00–13:50** Lunch

**13:50–15:30** **Discussion Platform of the Russian-Asian Consortium for Arctic Research ‘Global and Local Adaptation to Climate Change’**

*Research Library in  
the Main Academic  
Building of  
Ammosov North-  
Eastern Federal  
University  
Address: 42  
Kulakovskovo St.*

**Organizers:** Ammosov North-Eastern Federal University, Russian-Asian Consortium for Arctic Research

**Moderator:**

**Yury Danilov**, Deputy Rector for the Sustainable Development of the Arctic Territories, Ammosov North-Eastern Federal University; Research Coordinator at the Russian-Asian Consortium for Arctic Research from Ammosov North-Eastern Federal University

**Welcome address:**

**Anatoly Nikolayev**, Rector, Ammosov North-Eastern Federal University; Chairman, Russian-Asian Consortium for Arctic Research

**Speakers:**

**Vladimir Vasilyev**, Executive Director, Northern Forum International Organization

**Vasily Kolodeznikov**, Director, Institute of Natural Sciences, Ammosov North-Eastern Federal University

**Pyotr Shebalin**, Scientific Secretary, Scientific Council of the Russian Academy of Sciences for the Study of the Arctic and Antarctic; Director, Institute of Earthquake Prediction Theory and Mathematical Geophysics; Corresponding Member, Russian Academy of Sciences

**Viktor Dyomin**, First Vice Rector, National Research Tomsk State University

**Yevgeny Zakharov**, Leading Research Fellow, Laboratory for the Study of the Ecological State of the Arctic, Ecological and Geographic Division, Ammosov North-Eastern Federal University

**Zi-Feng Zhang**, Deputy Director, International Research Centre for the Study of the Arctic Ecosystem, Harbin Institute of Technology

**Zhanna Vasilyeva**, Chair, Department of Technosphere Safety, Murmansk State Technical University

**Jia Hongliang**, Professor, College of Environmental Science and Engineering, Dalian Maritime University



**Yelena Bogdanova**, Professor and Leading Researcher, Lomonosov Northern (Arctic) Federal University in Severodvinsk

**Lyudmila Drachkova**, Chair, Department of Geography and Hydrometeorology, Higher School of Natural Sciences and Technology

**Yulia Zvorykina**, Professor, Moscow State Institute of International Relations

**Anatoly Zhozhikov**, Chair, UNESCO Department, Ammosov North-Eastern Federal University

**Vyacheslav Shadrin**, Research Fellow, Department of History and Arctic Research, Institute for Humanitarian Research and Problems of Indigenous Peoples of the North

**Roman Kolesnikov**, Director, Environmental Protection Research Sector, Scientific Centre for Arctic Studies, Yamalo-Nenets Autonomous District

**Alexander Kugaevsky**, Deputy Rector for Analytical and Expert Activities, Ammosov North-Eastern Federal University; Director, Arctic International Studies Centre, Russian-Asian Consortium for Arctic Research

**13:50–14:40**

*Academic Council  
Hall at the  
Educational and  
Laboratory Building  
of Ammosov North-  
Eastern Federal  
University  
Address: 58  
Belinskovo St.*

**Research and Training Conference ‘Sustainability of Natural and Technical Permafrost Systems amidst Climate Change’**

**Organizer:** Melnikov Permafrost Institute of the Siberian Branch of the Russian Academy of Sciences

Section ‘Current State and Dynamics of Subaqueous and Continental Permafrost’

**Moderators:**

**Mikhail Zheleznyak**, Corresponding Member, Russian Academy of Sciences; Director, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**Mikhail Grigoryev**, Doctor of Geological Sciences; Deputy Director, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**Speakers:**

Alexander Zhirkov, Candidate of Technical Sciences, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**Online speakers:**

**Giorgi Kunchuliya**, MMC Norilsk Nickel

**Guangli Jiang**, Doctor of Sciences, Northwest Institute of Eco-Environment and Resources, Chinese Academy of Sciences

**Huijun Jin**, School of Civil Engineering, Cold Regions Science and Engineering Institute, Northeast Forestry University, China

**14:40–15:30**

*Venue: Academic Council Hall at the Educational and Laboratory Building of Ammosov North-Eastern Federal University*  
*Address: 58 Belinskovo St.*

**Roundtable ‘Current Problems of the Cryosphere: The View of Young Scientists’**

**Organizer:** Melnikov Permafrost Institute of the Siberian Branch of the Russian Academy of Sciences

**Moderator:**

**Ivan Khristoforov**, Candidate of Technical Sciences and Leading Research Fellow, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**Speakers:**

**Mikhail Zheleznyak**, Corresponding Member, Russian Academy of Sciences; Director, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**Anatoly Brushkov**, Doctor of Geological Mineralogical Sciences; Department Chair, Lomonosov Moscow State University

**Dmitry Sergeyev**, Candidate of Geological Mineralogical Sciences; Director, Geocryology Laboratory, Sergeyev Institute of Geoecology (online)

**15:30–16:00**

*Sergelyakh Lights Cultural Centre*  
*Address: 58 Belinskovo St.*

Coffee break

**16:00–18:00**

*Sergelyakh Lights Cultural Centre*  
*Address: 58 Belinskovo St.*

**Plenary Session ‘Permafrost and the Challenges of Global Climate Change’**

**Moderator:**

**Ilya Doronov**, Managing Director and TV Presenter, RBC TV Channel

**Speakers:**

- **Alexander Kozlov**, Minister of Natural Resources and Environment of the Russian Federation (online)
- **Nikolay Korchunov**, Ambassador-at-Large of the Ministry of Foreign Affairs of the Russian Federation; Chair, Arctic Senior Officials
- **Rodrigo de Lima Baena Soares**, Ambassador Extraordinary and Plenipotentiary of the Federative Republic of Brazil to the Russian Federation (online)
- **Takir Balykbaev**, Director, Central Asian Regional Glaciological Centre under the Auspices of UNESCO, Kazakhstan

- **Vladimir Sokolov**, Deputy Director, Russian Federal Service for Hydrometeorology and Environmental Monitoring (online)
- **Alexander Akimov**, Deputy Chairman, Russian Federation Council's Committee on Federal Structure, Regional Policy, Local Self-Government, and Northern Affairs
- **Alexander Ginzburg**, Chief Research Fellow, Obukhov Institute of Atmospheric Physics; Member, Public Expert Council of the National Ecology Project; Director, Development and the Environment Non-Profit Non-Governmental Foundation
- **Alexander Makarov**, Director, Arctic and Antarctic Research Institute (online)
- **Anatoly Nikolayev**, Rector, Ammosov North-Eastern Federal University
- **Anna Kotlova**, Associate Professor, Department of Public Law, Moscow State Institute of International Relations, Ministry of Foreign Affairs of the Russian Federation (online)

**18:00–18:30 Media scrum**

*Sergelyakh Lights  
Cultural Centre  
Address: 58  
Belinskovo St.*

**Participants:**

**Nikolay Korchunov**, Ambassador-at-Large of the Ministry of Foreign Affairs of the Russian Federation; Chair, Arctic Senior Officials  
**Alexander Akimov**, Deputy Chairman, Russian Federation Council's Committee on Federal Structure, Regional Policy, Local Self-Government, and Northern Affairs  
**Anatoly Nikolayev**, Rector, Ammosov North-Eastern Federal University

**19:00 Protocol event**

*Address: 12 Kirova St.*  
(per separate programme)

**23 March, Thursday**

**10:00–18:00 Exhibition of innovative projects by world-class scientific and educational centres**

*Centre for Student  
Initiatives at the  
Main Academic  
Building of  
Ammosov North-  
Eastern Federal  
University  
Address: 42  
Kulakovskovo St.*

**Organizer:** Sever Scientific and Educational Centre

**10:00–11:20**

*Academic Council  
Hall at the  
Educational and  
Laboratory Building  
of Ammosov North-  
Eastern Federal  
University  
Address: 58  
Belinskovo St.*

**Research and Training Conference ‘Sustainability of Natural and Technical Permafrost Systems amidst Climate Change’**

**Organizer:** Melnikov Permafrost Institute of the Siberian Branch of the Russian Academy of Sciences

Section: Sustainability of Permafrost Ecosystems. Cryogenic Processes and Phenomena

**Moderators:**

**Alexander Fyodorov**, Doctor of Geological Sciences; Deputy Director, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**Mikhail Grigoryev**, Doctor of Geological Sciences; Deputy Director, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

Speakers:

**Trofim Maximov**, Doctor of Biological Sciences; Deputy General Director for Science and International Projects, Yakutsk Scientific Centre, Siberian Branch of the Russian Academy of Sciences

**Nimazhap Badmayev**, Doctor of Biological Sciences, Institute of General and Experimental Biology, Siberian Branch of the Russian Academy of Sciences

**Tuyara Gavriyeva**, Doctor of Economics, Engineering and Technical Institute, Ammosov North-Eastern Federal University

**Sergey Velikin**, Doctor of Technical Sciences, Vilyui Research Permafrost Station, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**Ivan Khristoforov**, Candidate of Technical Sciences, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**Artyom Khomutov**, Candidate of Geological Mineralogical Sciences, Earth Cryosphere Institute, Tyumen Scientific Centre, Siberian Branch of the Russian Academy of Sciences

**Artyom Yakimov**, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**Vadim Pugach**, Etalon Research and Production Enterprise

**10:00–11:20**

*Centre for Student  
Initiatives at the  
Main Academic  
Building of  
Ammosov North-  
Eastern Federal  
University  
Address: 42  
Kulakovskovo St.*

**Roundtable ‘Climate Change in Yakutia: Forecasts and Ways to Mitigate the Consequences’**

**Organizer:** Ammosov North-Eastern Federal University

**Moderator:**

**Yevgeny Solovyov**, Vice Rector for Science and Innovation, Ammosov North-Eastern Federal University



**Speakers:**

**Nikita Tananayev**, Director, Research Laboratory for the Study of Climate and Ecosystems of the Northern Regions, Ammosov North-Eastern Federal University

**Alexander Ginzburg**, Chief Research Fellow, Obukhov Institute of Atmospheric Physics

**Irina Fyodorova**, Associate Professor, Institute of Sciences, St. Petersburg State University

**Julustan Hong**, First Deputy Minister of Ecology of the Republic of Sakha (Yakutia)

**Olga Makaryeva**, Associate Professor, St. Petersburg State University (online)

**Natalya Solovyova**, Deputy Director, Department of International Cooperation and Climate Change, Ministry of Natural Resources and Environment of the Russian Federation

**10:00–11:20**

*Research Library in  
the Main Academic  
Building of  
Ammosov North-  
Eastern Federal  
University  
Address: 42  
Kulakovskovo St.*

**Savvinov Readings: Functioning of Yakutia's Arctic and Subarctic Ecosystems amidst the Increasing Manmade Impact and Global Climate Change**

**Moderator:**

**Grigory Savvinov**, Director and Chief Research Fellow, Savvinov Research Institute of Applied Ecology of the North, Ammosov North-Eastern Federal University

**Speakers:**

**Grigory Savvinov, Viktor Makarov**, 'Ecosystems of the Yakut Arctic: Modern Challenges and Threats'

**Svetlana Mironova, Lyudmila Gavrilyeva, Georgy Bugayev**, 'Problem of Restoring Disturbed Lands in the Arctic Territories (Based on the Example of the Udachninskoye Field)'

**Yakov Volpert, Vasily Danilov**, 'Current Mammal Population in the Arctic and Subarctic Territories of Yakutia and Forecast for Transformations as the Manmade Impact Intensifies'

**Marta Ksenofontova, Ivan Alexeyev**, 'Transformation of the Chemical Composition of Watercourses in the Arctic and Subarctic Zones amidst Manmade Impact and Climate Change'

**11:20–11:40**

Coffee break

**11:40–13:00**

*Academic Council  
Hall at the  
Educational and  
Laboratory Building  
of Ammosov North-*

**Research and Training Conference 'Sustainability of Natural and Technical Permafrost Systems amidst Climate Change'**

**Organizer:** Melnikov Permafrost Institute of the Siberian Branch of the Russian Academy of Sciences

Eastern Federal  
University  
Address: 58  
Belinskovo St.

Section: Sustainability of Permafrost Ecosystems. Cryogenic Processes and Phenomena

**Moderators:**

**Alexander Fyodorov**, Doctor of Geological Sciences; Deputy Director, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**Mikhail Grigoryev**, Doctor of Geological Sciences; Deputy Director, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**Speakers:**

**Roman Desyatkin**, Doctor of Biological Sciences, Institute of Biological Problems of Permafrost, Siberian Branch of the Russian Academy of Sciences

**Tatyana Romanis**, Candidate of Agricultural Sciences, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**Marat Sadurtdinov**, Candidate of Technical Sciences, Earth Cryosphere Institute, Tyumen Scientific Centre, Siberian Branch of the Russian Academy of Sciences

**Pyotr Permyakov**, Doctor of Physical and Technical Sciences, Yakutsk Scientific Centre, Siberian Branch of the Russian Academy of Sciences; Larionov Institute of Physical and Technical Problems of the North, Siberian Branch of the Russian Academy of Sciences

**Viktor Ivanov**, Institute of Oil and Gas Problems, Siberian Branch of the Russian Academy of Sciences

**Vera Samsonova**, Candidate of Geological Sciences, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**Eduard Romanov**, Sakhalin

**Alyona Shestakova**, Candidate of Geological Sciences, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**Igor Syromyatnikov**, Candidate of Geological Mineralogical Sciences, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**11:40–13:00**

Centre for Student  
Initiatives at the  
Main Academic  
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Address: 42  
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**Roundtable ‘Climate Change in Yakutia: Forecasts and Ways to Mitigate the Consequences’**

**Organizer:** Ammosov North-Eastern Federal University

**Moderator:**

**Yevgeny Solovyov**, Vice Rector for Science and Innovation, Ammosov North-Eastern Federal University

**Speakers:**

**Mayya Danilova**, Minister of Economy of the Republic of Sakha (Yakutia)

**Pyotr Shebalin**, Scientific Secretary, Scientific Council of the Russian Academy of Sciences for the Study of the Arctic and Antarctic; Director, Institute of Earthquake Prediction Theory and Mathematical Geophysics; Corresponding Member, Russian Academy of Sciences

**Sakhamin Afanasyev**, Chairman, Standing Committee on Land Relations, Natural Resources, and Ecology, State Assembly (Il Tumen) of the Republic of Sakha (Yakutia)

**Alexander Gliko**, Presidium Member, Russian Academy of Sciences; Academician, Russian Academy of Sciences, Director of Planetary Geophysics and Geodynamics, of the Institute of Physics of the Earth, Russian Academy of Sciences

**Vladimir Semyonov**, Academician, Russian Academy of Sciences, Deputy Director, Obukhov Institute of Atmospheric Physics, Russian Academy of Sciences

**Natalya Sivtseva**, Director, Centre for the Development of Housing and Public Utilities and Energy Efficiency Improvement, of the Republic of Sakha (Yakutia)

**11:40–13:00**

*Research Library in  
the Main Academic  
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Address: 42  
Kulakovskovo St.*

**Savvinov Readings: Functioning of Yakutia's Arctic and Subarctic Ecosystems amidst the Increasing Manmade Impact and Global Climate Change**

Moderator: **Grigory Savvinov**, Director and Chief Research Fellow, Savvinov Research Institute of Applied Ecology of the North, Ammosov North-Eastern Federal University

**Speakers:**

**Nimazhap Badmayev, Z. Dugarzhapova**, 'Algorithm of the Information Retrieval System for Identifying Abandoned Cattle Burial Grounds on the Southern Border of the Transbaikalia Permafrost Zone

**V. Velichenko**, 'Sustainable Development of Hunting to Preserve the Traditional Crafts of the North'

**P. Danilov, V. Boeskorov**, 'Transformation of Soils and Soil Cover of the Arctic and Subarctic Territories of Yakutia amidst Climate Change and Manmade Impact'

**13:00–14:00**

Lunch

**14:00–15:20**

**Research and Training Conference 'Sustainability of Natural and Technical Permafrost Systems amidst Climate Change'**

**Organizer:** Melnikov Permafrost Institute of the Siberian Branch of the Russian Academy of Sciences

## Roundtable: Cryogenic Resources. Opportunities for Use, Risks, and Development Prospects

### **Moderators:**

**Alexander Fyodorov**, Doctor of Geological Sciences; Deputy Director, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**Mikhail Grigoryev**, Doctor of Geological Sciences; Deputy Director, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

### **Speakers:**

**M. Cherosov**, Doctor of Biological Sciences, Yakutia Scientific Centre, Siberian Branch of the Russian Academy of Sciences, Safronov Yakutsk Agricultural Research Institute

**N. Filippova**, Doctor of Technical Sciences, Moscow Automobile and Road Construction State Technical University

**P. Skryabin**, Candidate of Geological Sciences, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**Jiao Jian**, Deputy General Director for Foreign Economic Cooperation, XY Corporation, China

**V. Spektor**, Candidate of Geological Sciences, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**P. Konstantinov**, Candidate of Geological Sciences, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**M. Petrov**, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**M. Zakharov**, Candidate of Geological Sciences, Ammosov North-Eastern Federal University

**I. Misaylov**, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**14:00–15:20**

### **Open meeting with eco-oriented entrepreneurs**

*Centre for Student Initiatives at the Main Academic Building of Ammosov North-Eastern Federal University*  
Address: 42 Kulakovskovo St.

**Organizer:** Ammosov North-Eastern Federal University

### **Moderator:**

**Yevgeny Solovyov**, Vice Rector for Science and Innovation, Ammosov North-Eastern Federal University

### **Speakers:**

**L. Petrova**, Yakutia Ecological Company

**A. Ksenofontova**, GoGreen eco-friendly market

**A. Markova**, Poloskun ecological detergents bottling store

**M. Mestnikova**, Baby City chain of licensed kindergartens

**Y. Grigoryeva**, Ecotaxi recyclables removal service



**N. Mir**, City Farmer; Founder, GROWSAKHA project

**O. Grigoryeva**, Chairman, Made in Yakutia Association of Entrepreneurs of the Republic of Sakha (Yakutia); General Director, Kamelek

**V. Dmitrieva**, Director, Eyge Centre for Environmental Education of the Republic of Sakha (Yakutia)

**14:00–15:20**

*Research Library in  
the Main Academic  
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Address: 42  
Kulakovskovo St.*

**Savvinov Readings: Functioning of Yakutia's Arctic and Subarctic Ecosystems amidst the Increasing Manmade Impact and Global Climate Change**

**Moderator:**

**Grigory Savvinov**, Director and Chief Research Fellow, Savvinov Research Institute of Applied Ecology of the North, Ammosov North-Eastern Federal University

**Speakers:**

**Y. Garmayev**, 'Modern Hydrological and Geocryological Processes in Permafrost Areas of Transbaikalia'

**I. Makarov**, 'Mining Enterprise Waste in the Arctic and Subarctic Territories of Yakutia: Sources of a Negative Impact on Ecosystems'

**A. Petrov, I. Chenokhov**, 'Initial Soil Formation in Post-Technogenic Landscapes of Northern Yakutia'

**M. Cheprasov, S. Fyodorov, G. Novgorodov**, 'Current Focuses and Priorities of Paleozoological Research of the Mammoth Museum of the Research Institute of Applied Ecology of the North of Ammosov North-Eastern Federal University'

**15:20–15:30**

Coffee break

**15:30–16:40**

*Academic Council  
Hall at the  
Educational and  
Laboratory Building  
of Ammosov North-  
Eastern Federal  
University  
Address: 58  
Belinskovo St.*

**Research and Training Conference 'Sustainability of Natural and Technical Permafrost Systems amidst Climate Change'**

Section: Permafrost Zone of Urbanized and Developed Territories

**Moderators:**

**Alexander Fyodorov**, Doctor of Geological Sciences; Deputy Director, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**Mikhail Grigoryev**, Doctor of Geological Sciences; Deputy Director, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**Speakers:**

**V. Kuvayev**, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**G. Kuzmin**, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**Online speakers:**

**Hiyama Tetsuya**, Doctor of Science, Nagoya University, Japan

**Iijima Yoshihiro**, Doctor of Science, Mie University Graduate School of Bioresources, Japan

**G. Malkova**, Candidate of Geological Mineralogical Sciences, Earth Cryosphere Institute, Tyumen Scientific Centre, Siberian Branch of the Russian Academy of Sciences

**S. Yerokhin**, Candidate of Geological Mineralogical Sciences, Institute of Water Problems and Hydropower Engineering, National Academy of Sciences of the Kyrgyz Republic

**15:30–16:40**

**Competition of green youth scientific projects**

*Centre for Student  
Initiatives at the  
Main Academic  
Building of  
Ammosov North-  
Eastern Federal  
University  
Address: 42  
Kulakovskovo St.*

**Organizer:** Ammosov North-Eastern Federal University

**Moderator:**

**Ivan Yadrikhinsky**, Candidate of Geological Sciences; Associate Professor, Ecological and Geographical Department, Institute of Natural Sciences, Ammosov North-Eastern Federal University

**Participants:**

**N. Nikitin**, Student of Group M-TB-21, ‘Organization of Engineering and Hydrometeorological Surveys on the Territory of Batagay-Alyt (Environmental Safety)’

**K. Kopyrina**, Student of Group M-TB-21, ‘Monitoring the Impact of Geomagnetic Disturbances on Traffic Accidents in Yakutsk’

**D. Filatova**, Student of Group M-TB-21, ‘Creation of an Interregional Environmental Policy in Russia as a Way to Ensure the Environmental and Economic Security of the Regions (Based on the Example of the Republic of Sakha (Yakutia), Magadan and Irkutsk Regions, and the Arctic Zone of the Russian Federation)’

**T. Sleptsov**, Student of Group M-TB-21, ‘Monitoring of the Impact of Climate Change on Certain Aspects of Crop Production in Central Yakutia’

**K. Obutov**, Student of Group A-FG-22, ‘Urban GIS Platform as a Tool for the Urban Studies of the Future’

**O. Yudina**, Student of Group BA-GO-19, ‘Botanical Garden: An Ecotourism Site’

**T. Alexeyeva**, Student of Group M-TB-21, ‘Phytoindication of Air Pollution by Emissions from the Yakutsk Landfill in Terms of Growth in Light Coniferous Forest’

**V. Andreyeva**, Student of Group M-TB-21, ‘Mechanical Composition of Young Soils and Soils of Overburden Diamond Mining Dumps in Western Yakutia’

**15:30–16:40**

*Research Library in  
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Kulakovskovo St.*

**Savvinov Readings: Functioning of Yakutia’s Arctic and Subarctic Ecosystems amidst the Increasing Manmade Impact and Global Climate Change**

**Moderator:**

**Grigory Savvinov**, Director and Chief Research Fellow, Savvinov Research Institute of Applied Ecology of the North, Ammosov North-Eastern Federal University

**Speakers:**

**I. Bolotov**, ‘Fauna of the Arctic Zone of Eurasia amidst the Changing Climate’

**B. Kochurov**, ‘The Russian North: How to Balance Nature and Human Activity in the Current Geopolitical Situation’

**P. Petrov**, ‘Epizootic Situation of Anthrax Burial Sites in the Yakutia Permafrost’

**L. Gavrilyeva, S. Mironova**, ‘Vegetation of Tin Deposits in Yakutia (Based on the Example of Deputatsky Mining and Processing Plant)’

**N. Solomonov**, ‘Ichthyofauna Reactions to Manmade Impact in the Subarctic and Taiga Water Bodies of the Republic of Sakha (Yakutia)’

**16:40–17:00**

*Sergelyakh Lights  
Cultural Centre  
Address: 58  
Belinskovo St.*

Coffee break

**17:00–19:00**

*Sergelyakh Lights  
Cultural Centre  
Address: 58  
Belinskovo St.*

**Plenary session ‘Science-Business Collaboration to Preserve Permafrost and Adapt to Climate Change’**

**Moderator:**

**Ilya Doronov**, Managing Director and TV Presenter, RBC TV Channel

**Speakers:**

- **Aysen Nikolayev**, Head of the Republic of Sakha (Yakutia)
- **Alexander Gliko**, Academician, Russian Academy of Sciences; Doctor of Physical and Mathematical Sciences
- **Munkhmaral Tumennasan**, Adviser to the President of Mongolia
- **Vladimir Panov**, Special Representative for the Development of the Arctic, of Rosatom State Corporation; Deputy Chairman, State Commission for Arctic Development (online)

- **Roman Berdnikov**, First Deputy General Director, RusHydro (online)
- **Vladimir Sokolov**, Deputy Director, Russian Federal Service for Hydrometeorology and Environmental Monitoring (online)
- **Jiao Jian**, Deputy General Director for Foreign Economic Cooperation, XY Corporation, China
- **Mikhail Zheleznyak**, Director, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences
- **Vladimir Romanovsky**, Director, Permafrost Laboratory, Geophysical Institute, University of Alaska (Fairbanks, USA)
- **Andrey Alexeyev**, Director, Centre for Geocryological and Geotechnical Research, Gersevanov Research Institute of Bases and Underground Structures
- **Vladimir Semyonov**, Academician, Russian Academy of Sciences; Deputy Director for Science, Obukhov Institute of

Atmospheric Physics, Russian Academy of Sciences; Director, Climatology Laboratory, Institute of Geography, Russian Academy of Sciences; Doctor of Physical and Mathematical Sciences

#### **Agreement signings:**

- **Cooperation Agreement on Climate Change and Permafrost Thawing**

##### **Signatories:**

**Aysen Nikolayev**, Head of the Republic of Sakha (Yakutia)

**Anatoly Nikolayev**, Rector, Ammosov North-Eastern Federal University

**Leonid Vladimirov**, President, Academy of Sciences of the Republic of Sakha (Yakutia)

- **Cooperation Agreement between XY Investment Group and Project Management Centre of Sever Scientific and Educational Centre**

##### **Signatories:**

**Jiao Jian**, Deputy General Director for Foreign Economic Cooperation, XY Corporation, China

**Yevgeny Kolganov**, Director, Project Management Centre of Sever Scientific and Educational Centre

- **Cooperation Agreement between the Russian-Asian Consortium for Arctic Research and Project Management Centre of Sever Scientific and Educational Centre**

##### **Signatories:**



**Anatoly Nikolayev**, Rector, Ammosov North-Eastern Federal University; Chairman, Russian-Asian Consortium for Arctic Research

**Yevgeny Kolganov**, Director, Project Management Centre of Sever Scientific and Educational Centre

**19:00–19:30 Press scrum**

*Sergeyakh Lights  
Cultural Centre  
Address: 58  
Belinskovo St.*

**Participant:**

**Aysen Nikolayev**, Head of the Republic of Sakha (Yakutia)

**24 March, Friday**

**10.00–11.20**

*Melnikov  
Permafrost Institute  
of the Siberian  
Branch of the*

**Research and Training Conference ‘Sustainability of Natural and Technical Permafrost Systems amidst Climate Change’**

**Organizer:** Melnikov Permafrost Institute of the Siberian Branch of the Russian Academy of Sciences

*Russian Academy of  
Sciences  
Address: 36  
Merzlotnaya St.*

Section: Thermal and Mechanical Interaction of Natural and Technical Systems in Permafrost

**Moderators:**

**Alexander Fyodorov**, Doctor of Geological Sciences; Deputy Director, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**Mikhail Grigoryev**, Doctor of Geological Sciences; Deputy Director, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**Speakers:**

**Y. Skachkov**, Candidate of Geological Sciences, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**L. Gagarin**, Candidate of Geological Mineralogical Sciences, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**V. Andreyeva**, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**R. Ivanova**, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**P. Yefremov**, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**N. Torgovkin**, Candidate of Geological Mineralogical Sciences, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**A. Petrova**, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences  
**R. Sysolyatin**, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences  
**A. Vasilyev**, Melnikov Permafrost Institute, of the Siberian Branch of the Russian Academy of Sciences  
**S. Starodubtsev**, Candidate of Physical and Mathematical Sciences; Yakutsk Scientific Centre, Siberian Branch of the Russian Academy of Sciences; Shafer Institute of Cosmophysical Research and Aeronomy, Siberian Branch of the Russian Academy of Sciences  
**O. Trifonov**, Gazprom VNIIGAZ  
**R. Zhang**, Doctor of Technical Sciences, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences  
**Y. Loktionov**, Candidate of Technical Sciences, Lomonosov Northern (Arctic) Federal University  
**P. Sazonov**, Research Centre of Construction, Gersevanov Research Institute of Bases and Underground Structures

**11:20–11:40** Coffee break

**11:40–13:00** **Research and Training Conference ‘Sustainability of Natural and Technical Permafrost Systems amidst Climate Change’**

*Melnikov  
Permafrost Institute  
of the Siberian  
Branch of the  
Russian Academy of  
Sciences  
Address: 36  
Merzlotnaya St.*

**Organizer:** Melnikov Permafrost Institute of the Siberian Branch of the Russian Academy of Sciences

Section: Construction and Survey Technologies in the North

**Moderators:**

**Alexander Fyodorov**, Doctor of Geological Sciences; Deputy Director, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**Mikhail Grigoryev**, Doctor of Geological Sciences; Deputy Director, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**Speakers:**

**A. Filimonov**, TomskNIPIneft

**D. Churzhakova**, TomskNIPIneft

**V. Khilimonyuk**, Candidate of Geological Mineralogical Sciences, Lomonosov Moscow State University

**P. Ksenofontov**, Sakhatransneftegaz

**G. Antonovskaya**, Doctor of Technical Sciences, Laverov Federal Centre for Integrated Arctic Research, Ural Branch of the Russian Academy of Sciences

**A. Tseyeva**, Candidate of Technical Sciences, Yakutsk Scientific Centre, Siberian Branch of the Russian Academy of Sciences; Larionov Institute

of Physical and Technical Problems of the North, Siberian Branch of the Russian Academy of Sciences

**A. Pavlov**, Preserving the Permafrost

**A. Derevtsov**, Ammosov North-Eastern Federal University

**A. Zhang**, Candidate of Technical Sciences, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**I. Ryakhovskikh**, Gazprom VNIIGAZ

**V. Yefremov**, Doctor of Technical Sciences, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**S. Popov**, Doctor of Technical Sciences, Institute of Oil and Gas Problems, Siberian Branch of the Russian Academy of Sciences

**T. Nazarov**, Ammosov North-Eastern Federal University

**I. Mestnikova**, Ammosov North-Eastern Federal University

**A. Shepelev**, Candidate of Biological Sciences, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**A. Naberezhny**, Candidate of Technical Sciences, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**Y. Ivanov**, Vilyui Research Permafrost Station, Siberian Branch of the Russian Academy of Sciences

**P. Pavlova**, Candidate of Technical Sciences, Institute of Oil and Gas, Siberian Federal University

**13:00–14:00** Lunch

**14:00–18:00** **Research and Training Conference ‘Sustainability of Natural and Technical Permafrost Systems amidst Climate Change’**

*Melnikov  
Permafrost Institute  
of the Siberian  
Branch of the  
Russian Academy of  
Sciences*

*Address: 36  
Merzlotnaya St.*

**Organizer:** Melnikov Permafrost Institute of the Siberian Branch of the Russian Academy of Sciences

Section: Construction and Survey Technologies in the North  
Roundtable: Yakutia: A Platform to Research Earth’s Cryosphere

**Moderators:**

**Alexander Fyodorov**, Doctor of Geological Sciences; Deputy Director, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**Mikhail Grigoryev**, Doctor of Geological Sciences; Deputy Director, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**Online speakers:**

**Y. Gorelik**, Doctor of Geological Mineralogical Sciences, Earth Cryosphere Institute, Tyumen Scientific Centre, Siberian Branch of the Russian Academy of Sciences

**L. Lebedeva**, Candidate of Geological Mineralogical Sciences, Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences

**A. Zemlyanovskaya**, St. Petersburg State University

**Y. Konechnaya**, Candidate of Technical Sciences, Laverov Federal Centre for Integrated Arctic Research, Ural Branch of the Russian Academy of Sciences

**O. Makaryeva**, Candidate of Technical Sciences, St. Petersburg State University

**P. Kotov**, Candidate of Geological Mineralogical Sciences, MMC Norilsk Nickel

**D. Abramov**, Lomonosov Moscow State University

**L. Khrustalev**, Doctor of Technical Sciences, Lomonosov Moscow State University

**A. Gorbunova**, Lomonosov Moscow State University

**S. Alexeyev**, Doctor of Geological Mineralogical Sciences, Institute of the Earth's Crust, Siberian Branch of the Russian Academy of Sciences

**Wei Shan**, Professor, Cold Regions Science and Engineering Institute, Northeast Forestry University, China

**Ying Guo**, Professor, Cold Regions Science and Engineering Institute, Northeast Forestry University, China

**E. Chimitdorzhieva**, Candidate of Biological Sciences, Institute of General and Experimental Biology, Siberian Branch of the Russian Academy of Sciences

**O. Ponomareva**, Candidate of Geological Mineralogical Sciences, Sergo Ordzhonikidze Russian State University for Geological Prospecting

**M. Dokukin**, Candidate of Geological Sciences, High Mountain Geophysical Institute

**G. Oblogov**, Candidate of Geological Mineralogical Sciences, Earth Cryosphere Institute, Tyumen Scientific Centre, Siberian Branch of the Russian Academy of Sciences

**V. Khomyakova**, St. Petersburg State University

**A. Ostashov**, State Hydrological Institute

**Y. Chuvilin**, Candidate of Geological Mineralogical Sciences, Skolkovo Institute of Science and Technology

**S. Malyshko**, Institute of Monitoring of Climatic and Ecological Systems, Siberian Branch of the Russian Academy of Sciences

**B. Zhou**, Lomonosov Moscow State University

**S. Markov**, Candidate of Physical and Mathematical Sciences, Trofimuk Institute of Petroleum Geology and Geophysics, Siberian Branch of the Russian Academy of Sciences

**S. Milanovsky**, Radionda

**O. Tregubov**, Candidate of Geological Mineralogical Sciences, Shilo North-Eastern Integrated Research Institute, Far Eastern Branch of the Russian Academy of Sciences

**A. Moyakunova**, Arctic Research Centre, Republic of Sakha (Yakutia)

08:00–22:00

Visiting the Lena Pillars Nature Park