



National Committee
for **BRICS** Research,
Russia



Karelian
Research Centre
Russian Academy
of Sciences

RITM
CARBON

Program of the international conference

**“Regional cooperation within BRICS:
modern environmental and nature management issues”**

**Karelian Research Centre RAS (11 Pushkinskaya St.)
September 18-20, 2024**



National Committee
for **BRICS** Research,
Russia



Karelian
Research Centre
Russian Academy
of Sciences



International Conference “Regional cooperation within BRICS: modern environmental and nature management issues” draft program scheme

18th September			19th September				20.09
08:30-09:30 Registration of participants							Tours of Petrozavodsk and nature sites in Karelia
09:30-10:00 Conference opening and greetings (Conference Hall)			09:30-13:00 Young scientists workshop “Monitoring carbon pools and fluxes in natural ecosystems” (Museum of Applied Environmental Research)	09:30-11:00 Thematic session: “Water and terrestrial ecosystems research under climate change and human impact in BRICS member states” (Conference Hall)	09:30-11:00 Thematic session: “Topical issues of PA designation and nature protection in BRICS member states: opportunities for cooperation” (Institute of Geology Meeting Room)	09:30-11:00 Thematic session: “Development of industrial ecology and green economy: regional experiences” (Institute of Linguistics, Literature and History of Karelian Research Centre Meeting Room)	
10:00-11:00 Plenary session (Conference Hall)			11:00-11:30 Coffee break				
11:00-11:30 Coffee break			11:30-13:00 Thematic session: “Water and terrestrial ecosystems research under climate change and human impact in BRICS member states” (Conference Hall)	11:30-13:00 Thematic session: “Topical issues of PA designation and nature protection in BRICS member states: opportunities for cooperation” (Institute of Geology Meeting Room)	11:30-13:00 Thematic session: “Development of industrial ecology and green economy: regional experiences” (Institute of Linguistics, Literature and History of Karelian Research Centre Meeting Room)		
11:30-13:00 Plenary session (Conference Hall)			13:00-14:00 Lunch break (KarRC RAS Library)				
13:00-14:00 Lunch break (KarRC RAS Library)			14:00-15:30 Roundtable for experts in social and political sciences “BRICS+ as a platform for scientific cooperation in the Arctic: challenges and prospects of joint research” (Conference Hall)				
14:00-15:30 Plenary session (Conference Hall)			14:00-16:15 Thematic session: “Development of industrial ecology and green economy: regional experiences” (Institute of Linguistics, Literature and History of Karelian Research Centre Meeting Room)		14:00-16:15 Thematic session: “Global and regional climate change, carbon balance monitoring in BRICS member states” (Institute of Geology Meeting Room)		
15:30-16:00 Coffee break			15:40-17:40 Session “NGO potential and international activities in addressing sustainable development tasks in the current situation” (Conference Hall)				
16:00-18:00 Thematic session: “Global and regional climate change, carbon balance monitoring in BRICS member states” (IG Meeting Room)	16:00-18:00 Thematic session: “Water and terrestrial ecosystems research under climate change and human impact in BRICS member states” (Conference Hall)	16:00-18:00 Thematic session: “Development of industrial ecology and green economy: regional experiences” (ILLH Meeting Room)					
18:00-20:00 Standing buffet (KarRC RAS Library)			16:30-18:00 Tours of museum exhibitions in KarRC RAS				



National Committee
for **BRICS** Research,
Russia



Karelian
Research Centre
Russian Academy
of Sciences



18th SEPTEMBER, WEDNESDAY

08:30-09:30

Registration of participants (KarRC RAS lobby)

09:30-15:30

PLENARY SESSION

Moderator: **Olga N. Bakhmet**, Dr.Sci., RAS Corr. Academician, KarRC RAS Acting Director General

Online connection link: <https://zoom.us/j/99723501699>

Conference ID: 997 2350 1699

Access code: 640914¹

Conference opening

Greetings

09:30-10:00

Artur Parfenchikov

Head of the Republic of Karelia

Georgy Toloraya

Deputy Chair of the Board, National Committee on BRICS Research

(online)

Vladimir Chizhov

Senator, Member of the Federation Council of the RF Federal Assembly for executive authorities

Nikolai Testoedov

RAS Academician, Deputy Chairman of the Siberian Branch RAS

Olga Shmaenik

Acting Chair of the Republic of Karelia Legislative Assembly

Lilia Rizvanova

Head of BRICS Office, Ministry of Foreign Affairs Russia

(online)

Elena Topoleva-Soldunova

NGO Social Information Agency, Director; Kindness of the North Charity Fund, Director General; Commission on Non-profit Sector Development under the Civil Chamber of the

¹ Please make sure to choose your language in the Zoom menu (bottom right): Off – for source language; English; Russian.



National Committee
for **BRICS** Research,
Russia



Karelian
Research Centre
Russian Academy
of Sciences



Russian Federation, Chairperson		
KEYNOTE TALKS		
10:00-10:20	MATISHOV Guennady G. , Dr.Sci., RAS Academician, Professor, RAS Deputy President	Study of the Arctic zone of the Russian polar north
10:20-10:40	BAKHMET Olga N. , Dr.Sci., Acting Director General, Karelian Research Centre RAS (KarRC RAS)	KarRC RAS international cooperation in environmental issues and sustainable nature management: experience and visions
10:40-11:00	YARYGINA Irina Z. , Dr.Sci., Research Director of the National Committee on BRICS Research, Chair of Economics and Banking Business at the Institute of Energy Policy and Diplomacy MGIMO University, Russia <u>(online)</u>	BRICS financial cooperation prospects as a driver for the national economy
11:00-11:05	Group photo session	
11:00-11:30	Coffee break	
11:30-11:45	CAO Lei , Professor, Research Associate, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences	Novel mapping of the flyway corridors of wildfowl in the East Asian Australasian Flyway
11:45-12:00	JIANG Helong , PhD, Prof., Director, Division of Lake Environment & Engineering, Nanjing Institute of Geography and Limnology, Chinese Academy of Sciences <u>(online)</u>	Distinct carbon-cycle function of associated bacteria in cyanobacterial bloom aggregates in a freshwater lake
12:00-12:15	SAKHAROV Yaroslav A. , Cand.Sci., Leading Researcher, Polar Geophysical Institute	Geomagnetically induced current recording system (GIC Aurora) - a first step in creating a GIC recording system for BRICS



National Committee
for **BRICS** Research,
Russia



Karelian
Research Centre
Russian Academy
of Sciences



12:15-12:30	WOLDEGIORGIS Yihew Biru , , MSc Ecological and Systematic Zoology, Gullele Botanic Garden Addis Ababa, Ethiopia	Biodiversity conservation research in Ethiopia: prospects for collaboration with BRICS states.
12:30-12:45	BYCHKOV Igor V. , Dr.Sci., RAS Academician, Matrosov Institute for System Dynamics and Control Theory, Siberian Branch RAS (online)	Techniques for digital monitoring and forecasting the ecological situation in the Baikal natural territory
12:45-13:00	TESTOEDOV Nikolai A. , RAS Academician, Deputy Chairman of the Siberian Branch RAS	Applying the results of space activities in boreal forest ecosystem research
13:00-14:00	Buffet Lunch (KarRC RAS Library, 5 th floor)	
14:00-14:15	MAHARAJH Rasigan , Dr., Director General, Tshwane University of Technology, South Africa (online)	Ecological Constraints and Sustainable Development: Contemporary Challenges for BRICS+ and the Global Majority
14:15-14:30	SKOBELEV Dmitry O. , Dr.Sci., Director, Environmental Industrial Policy Center	Aspects of natural capital accounting for promoting BRICS interactions
14:30-14:45	KHOROLSKY Ivan V. , Director, Directorate for Regional Protected Areas of Republic of Karelia	Topical issues in PA designation and nature conservation in the Republic of Karelia. Possibilities for BRICS cooperation
14:45-15:00	JASPAL Mannat , Associate Fellow, Energy and Climate, Observer Research Foundation, India	Bridging the Funding Gap: Leveraging Carbon Markets for Nature-Based Solutions
15:00-15:15	MYACHINA Ksenia V. , Dr.Sci., Head of Dept. of Natural and Technogenic Geosystems, Institute of Steppe, Orenburg	Identifying the spatial heterogeneity of ecosystems' atmospheric carbon sink capacity based on satellite data



National Committee
for **BRICS** Research,
Russia



Karelian
Research Centre
Russian Academy
of Sciences



	Research Center, Ural Branch RAS	
15:15-15:30	SEREBRITSKY Ivan A. , Cand.Sci., Deputy Chairman of Committee on Nature Management, Environmental Protection and Environmental Safety	Specific features of the structure of greenhouse gas emissions in St. Petersburg in the context of implementing the climate agenda and the adaptation action plan
15:30-16:00	Coffee break (KarRC RAS Library, 5 th floor)	
16:00-18:00 Thematic session “GLOBAL AND REGIONAL CLIMATE CHANGE, CARBON BALANCE MONITORING IN BRICS MEMBER STATES” (Meeting Room of the Institute of Geology KarRC RAS) Moderators: Dmitry O. Skobelev , Dr.Sci., Director, Environmental Industrial Policy Center; Dmitry A. Yekimov , Senior Researcher, Laboratory of Ecological Monitoring and Modeling, Department for Multidisciplinary Research KarRC. Online connection link: https://zoom.us/j/91034529866 Conference ID: 910 3452 9866 Access code: 888079²		
KEYNOTE TALKS		
16:00-16:15	ALEKSEEVA Nina N. , Cand.Sci., Associate Prof., Acting Head of Department of World Physical Geography and Geoecology, Faculty of Geography, Lomonosov Moscow State University	Regional-level carbon balance estimates: case studies from China and India
16:15-16:30	SREEDEVI M.A. , Research Scholar, School of Environmental Studies, Cochin University of Science and Technology, Kerala, India (online)	Interactions between persistent organic pollutants and carbon reservoirs in Ashatamudi Wetland Sediments under global climate change
PRESENTATIONS		

² Please make sure to choose your language in the Zoom menu (bottom right): Off – for source language; English; Russian.



National Committee
for **BRICS** Research,
Russia



Karelian
Research Centre
Russian Academy
of Sciences

RITM
CARBON

16:30-16:45	KUTENKOV Stanislav A. , Cand.Sci., Head of Mire Ecosystems Laboratory, Institute of Biology KarRC RAS	Estimating the carbon pools of mires of Karelia within the Russian National System for Monitoring Climate-active Substances
16:45-17:00	DANILOV Yuri G. , Cand.Sci., Prof. of Ecological and Geographical Department, Institute of Natural Sciences, Vice Rector of the North-Eastern Federal University in Yakutsk	Yakutian terrestrial ecosystems: modeling based on climate data and analysis of landscape structure dynamic
17:00-17:15	LOMOV Viktor , Faculty of Geography, Lomonosov Moscow State University GRECHUSHNIKOVA Maria G. , Cand.Sci., Leading Researcher, Faculty of Geography, Lomonosov Moscow State University (online)	Methane in Volga water storage reservoirs: in situ measurements of content and flux density
17:15-17:30	Polyakov Vyacheslav I. , Junior Researcher at Department of Applied Ecology, St. Petersburg State University ABAKUMOV Evgeny V. , Dr.Sci., RAS Professor, Professor at Department of Applied Ecology, St. Petersburg State University	Molecular mechanisms of soil organic carbon stabilization in carbon testing sites in the polar and boreal belts
17:30-17:45	PRASOLOV Sergey D. , Junior Researcher, Laverov Federal Center for Integrated Arctic Research, Ural Branch RAS	Carbon emissions from the surface of intra-mire lakes
17:45-18:00	LAVRENTYEVA Irina N. , Cand.Sci., Senior Researcher, Institute of General and Experimental Biology, Siberian Branch RAS (online)	Carbon balance in herbaceous ecosystems of the Transbaikal region
16:00-18:00		



National Committee
for **BRICS** Research,
Russia



Karelian
Research Centre
Russian Academy
of Sciences



Thematic session: “WATER AND TERRESTRIAL ECOSYSTEMS RESEARCH UNDER CLIMATE CHANGE AND HUMAN IMPACT IN BRICS MEMBER STATES”

(KarRC RAS Conference Hall)

Moderators: **Mikhail V. Makarov**, Dr.Sci., Director, Murmansk Marine Biological Institute RAS (MMBI RAS);

Nikolai N. Filatov, Dr.Sci., Professor, RAS Corr. Academician, Northern Water Problems Institute KarRC RAS.

Online connection link: <https://zoom.us/j/99723501699>

Conference ID: 997 2350 1699

Access code: 640914³

KEYNOTE TALKS

16:00-16:15	MAKAROV Mikhail V. , Dr.Sci., Director, Murmansk Marine Biological Institute RAS (MMBI RAS)	MMBI RAS research on climate change impacts on the biological communities of Arctic Seas
16:15-16:30	MINGALEV Igor V. , Dr.Sci., Director, Polar Geophysical Institute (PGI), Kola Science Center RAS	PGI-designed general atmospheric circulation model

PRESENTATIONS

16:30-16:45	HUANG Wenfeng , Professor, Changan University, China LI Zhijun , Dalian University of Technology, China (online)	Introduction of Lake Ice Physics and Water Ecosystem under ice from a Chinese- German Project
16:45-17:00	MERZLYI Aleksey M. , Cand.Sci., Senior Researcher, Space Research Institute RAS (IKI RAS) YANAKOV Albert T. , Cand.Sci., IKI RAS (online)	Interdepartmental pilot radio path of IKI RAS - groundwork for developing heliogeophysical research in BRICS

³ Please make sure to choose your language in the Zoom menu (bottom right): Off – for source language; English; Russian; Interpretation button in Zoom window.



17:00-17:15	USOVA Elena V. , Head of Water Quality and Analytical Activities Dept., Russian Research Institute for Integrated Water Management and Protection (Rostov-on-Don) (<u>online</u>)	The mission and first results from the operation of Tsimlyansk reservoir carbon test site
17:15-17:30	LUKINA Yulia N. , Dr.Sci, Director, Northern Water Problems Institute KarRC RAS (NWPI KarRC RAS)	Designing the system for monitoring carbon pools and greenhouse gas fluxes in aquatic ecosystems of North European Russia
17:30-17:45	ZADEREEV Egor S. , Cand.Sci., Leading Researcher, Head of Science Communication Office, Krasnoyarsk Science Center, Siberian Branch RAS" (<u>online</u>)	The impact of salinity and climate change on aquatic ecosystems functioning and provision of ecosystem services in various natural zones
17:45-18:00	KRASHENINNIKOVA Svetlana B. , Cand.Sci., Leading Researcher, Head of Dept. of Marine Ecosystem Functioning, Kovalevsky Institute of Biology of the Southern Seas	Research on phytoplankton distribution patterns in Kara Sea waters with reference to abiotic factors
16:00-18:00		
Thematic session: “DEVELOPMENT OF INDUSTRIAL ECOLOGY AND GREEN ECONOMY: REGIONAL EXPERIENCES”		
(Meeting Room of the Institute of Linguistics, Literature and History KarRC RAS)		
<p>Moderators: Vladimir A. Masloboev, Dr.Sci., Principal Researcher, Laboratory for Interdisciplinary Ecological-Economic Studies, Institute of North Industrial Ecology Problems, Kola Science Centre RAS;</p> <p>Alexander I. Slabunov, Dr.Sci., KarRC RAS Deputy Director General for Research Administration.</p>		
Online connection link: https://us06web.zoom.us/j/82494159475		
Conference ID: 824 9415 9475		
Access code: 452129		
PRESENTATIONS		
16:00-16:15	KARGINOVA-GUBINOVA Valentina V. , Cand.Sci., Senior	Changes in environmental and economic performance upon transition from



	Researcher, Regional Economic Policy Section, Institute of Economics KarRC RAS	industrial to organic agriculture
16:15-16:30	SIDORINA Inessa E. , Cand.Sci., Associate Professor, Department of Cartography and Geoinformatics, St. Petersburg State University	Applying GIS technologies to map and analyze the BRICS natural resources potential
16:30-16:45	KOTOVA Ekaterina I. , Cand.Sci., Leading Researcher, Director, North-Western Branch of Shirshov Institute of Oceanology RAS	Dispersal of impurities from oil and gas industry sources in the north of the Timan-Pechora Basin Province
16:45-17:00	NIKONOROV Sergey M. , Dr.Sci., Professor, Dept. for Economics of Nature Use, Faculty of Economics, Lomonosov Moscow State University (online)	Incentivizing the development of the electric vehicle market in China and Russia
17:00-17:15	RYBAKOV Dmitry S. , Cand.Sci., Senior Researcher, Laboratory of Geochemistry, Quaternary Geology and Geoecology, Institute of Geology KarRC RAS	Natural and technogenic impacts on the elemental composition of water in Petrozavodsk City rivers
17:15-17:30	BOROVICHEV Evgeny A. , Cand.Sci., Deputy Director General for Science, Kola Science Center RAS	Solutions for minimizing the detrimental environmental impact of human activities in the Russian Arctic zone: lessons from the Kola Science Center RAS
17:30-17:45	BURMATOVA Olga P. , Dr.Sci., Leading Researcher, Institute of Economics and Industrial Engineering, Siberian Branch RAS (online)	Current trends in environmental affairs
17:45-18:00	SUTURIN Alexander N. , Cand.Sci., Head of Biogeochemistry Laboratory, Limnological Institute, Siberian Branch RAS	Ecologization of the pulp industry



National Committee
for **BRICS** Research,
Russia



Karelian
Research Centre
Russian Academy
of Sciences

RITM
CARBON

	GONCHAROV Aleksey I., Director, Irgiprobum Ltd.	
18:00-20:00	Standing buffet (KarRC RAS Library, 5 th floor)	



19th SEPTEMBER, THIRSDAY

09:30-13:00

Young scientists workshop “MONITORING OF CARBON POOLS AND FLUXES IN NATURAL ECOSYSTEMS”⁴

(Museum of Applied Environmental Research, 11 Pushkinskaya St.)

ALEKSEEV Ivan (PhD candidate, Severtsov Institute of Ecology and Evolution RAS/Arctic and Antarctic Research Institute, Moscow) - *Integrated study of the soil cover, carbon stock estimation, climate-related risks in the Arctic;*

BORTSOV Dmitry (R&D Engineer, Dept. for Multidisciplinary Research KarRC RAS, Petrozavodsk) - *Tools for measuring soil carbon pools and fluxes designed and used at KarRC RAS;*

WANG Wenjuan (PhD Student, St. Petersburg State University) - *Permafrost degradation impact on the content of organic carbon, total nitrogen and trace elements in soils of the central part of the Qinghai-Tibetan Plateau*

GENIKOVA Nadezhda (Cand.Sci., Senior Researcher, Forest Research Institute KarRC RAS, Petrozavodsk) - *Studies of plant biomass and carbon reserves in the ground vegetation of forest communities in the Republic of Karelia*

DINKELACKER Nikita Friedrich (PhD Student, ITMO University, St. Petersburg) - *“Clear-cutting effects on carbon deposition in soils”*

EMELYANENKO Violetta (Laboratory Researcher, Federal Scientific Center of Agroecology RAS, Volgograd) - *“Carbonates in arid steppe zone soils”*

ZELENCHENKOVA Alyona (Cand.Sci., Senior Researcher, Ernst Federal Research Center for Animal Husbandry, Moscow Region) - *“Technological possibilities for reducing greenhouse gas emissions in intensive animal husbandry”*

KRASHENINNIKOVA Svetlana (Cand.Sci., Leading Researcher, Kovalevsky Institute of Biology of the Southern Seas, Sevastopol) - *Studies of the water structure and dynamics in different regions of the World Ocean under the impact of hydrometeorological and chemical factors*

LEONTYEVA Ksenia (BSc, People’s Friendship University of Russia, Moscow) - *«Estimating the carbon and methane footprint of LNG delivery» (author: Ksenia S. Romanovskaya)*

MIRONOV Viktor (Researcher, Mire Ecosystems Laboratory, Institute of Biology KarRC RAS), - *«Temperature threshold for Sphagnum riparium growth and its carbon-related genesis».*

MOROZOVA Irina (Junior Researcher, Northern Water Problems Institute KarRC RAS) - *«Designing a technique for monitoring carbon stock and*

⁴ Detailed event program will be sent to its participants later. It will also be posted on KarRC RAS official website in the Conference section.



National Committee
for **BRICS** Research,
Russia



Karelian
Research Centre
Russian Academy
of Sciences



<p><i>greenhouse gas fluxes in lakes of Karelia: measuring hydrophysical parameters and methane emission».</i></p> <p>NOVIKOVA Yulia (PhD Student, Junior Researcher, NWPI KarRC RAS, Petrozavodsk) - <i>Hydrophysical processes in water bodies</i></p> <p>SADRTINOV Kirill (MSc Student, Lomonosov Moscow State University) - <i>«Investment costs for China's renewable energy development until 2050»</i></p> <p>TESLYA Dmitry V. Тесля Дмитрий Вадимович (Intern Researcher, Forest Research Institute KarRC RAS) - <i>on techniques for quantifying carbon pools in woody plant biomass</i></p> <p>TIMOFEEV E.P. (Laboratory Researcher, Federal Scientific Center of Agroecology RAS) - <i>«Estimation of greenhouse gas fluxes in soil-protective forest plantations in the arid steppe zone of the Volgograd Region during the growing season»</i></p> <p>ZHANG Yushi (PhD Student, Lomonosov Moscow State University) - <i>“Aspects of the BRICS low-carbon cooperation development”</i></p> <p>SHCHAVELEV Anton (PhD Student, Junior Researcher, Institute of Steppe, Orenburg Research Centre, Ural Branch RAS, Orenburg) - <i>«Studies of environment-forming parameters in semi-disturbed steppe geosystems versus the original geosystems»</i></p>		
<p>09:30-13:00</p> <p>THEMATIC SESSION: “WATER AND TERRESTRIAL ECOSYSTEMS RESEARCH UNDER CLIMATE CHANGE AND HUMAN IMPACT IN BRICS MEMBER STATES”</p> <p>(KarRC RAS Conference Hall)</p> <p>Moderators: Mikhail V. Makarov, Dr.Sci., Director, Murmansk Marine Biological Institute RAS (MMBI RAS);</p> <p>Nikolai N. Filatov, Dr.Sci., Professor, RAS Corr. Academician, Northern Water Problems Institute KarRC RAS.</p> <p style="text-align: right;">Online connection link: https://zoom.us/j/99723501699</p> <p style="text-align: right;">Conference ID: 997 2350 1699</p> <p style="text-align: right;">Access code: 640914⁵</p>		
<p>KEYNOTE TALKS</p>		
<p>09:30-09:45</p>	<p>FILATOV Nikolai N., Dr.Sci., Professor, RAS Corr. Academician, NWPI KarRC RAS</p>	<p>Basic research on lake-catchment ecosystems for decision-making support</p>

⁵ Please make sure to choose your language in the Zoom menu (bottom right): Off – for source language; English; Russian; Interpretation button in Zoom window.



09:45-10:00	DRISSIA T.K. , PhD, Principal Scientist, Centre for Water Resources Development and Management, India (online)	Regional-scale hydrological changes in response to climate change - a case study from India
PRESENTATIONS		
10:00-10:15	LIU Wei , PhD, Researcher, Key Laboratory of Poyang Lake Environment and Resource Utilization, Ministry of Education, School of Resource and Environment, Nanchang University, China; Department of Applied Ecology, Saint Petersburg State University, Russia (online)	Watershed Phosphorus Cycle Management as an Effective Approach for Global Phosphorus Sustainability
10:15-10:30	LOBANOVA Polina V. , Cand.Sci., Head of Laboratory, St. Petersburg State University (online)	Marine carbon test sites as a platform for implementing climate projects in Russia
10:30-10:45	ZDOROVENNOVA Galina E. , Cand.Sci., Leading Researcher, Head of Hydrophysics Laboratory, NWPI KarRC RAS	Climatic variability of Arctic temperature and arid zone lakes ice regime
10:45-11:00	SAZONOV Aleksey D. , Junior Researcher, Laboratory Researcher, RosHydroMet Hydrochemical Institute; PhD Student, Dept. of Geoecology and Applied Geochemistry, Institute for Earth Sciences, Southern Federal University (online)	Results of monitoring dissolved matter transport across the Russian-Finnish border in 2010-2020
09:30-13:00		
THEMATIC SESSION: “TOPICAL ISSUES OF PA DESIGNATION AND NATURE PROTECTION IN BRICS MEMBER STATES: OPPORTUNITIES FOR COOPERATION”		



National Committee
for **BRICS** Research,
Russia



Karelian
Research Centre
Russian Academy
of Sciences



(Meeting Room of the Institute of Geology KarRC RAS)

Moderators: **Andrey V. Samusevich**, Deputy Chairman of Committee on Nature Management, Environmental Protection and Environmental Safety, St. Petersburg City Administration;

Alexander A. Titov, Dr.Sci., RAS Corr. Academician, Principal Researcher, Dept. for Multidisciplinary Research Think Tank, KarRC RAS.

Online connection link: <https://zoom.us/j/91034529866>

Conference ID: 910 3452 9866

Access code: 888079

KEYNOTE TALKS

09:30-09:50	GRUMMO Dmitry G. , Cand.Sci., Researcher, Kuprevich Institute of Experimental Botany, Belarus National Academy of Sciences (online)	Evolution of the Belarusian-Russian system of transboundary protected areas: an end in itself or a platform for scientific and economic cooperation? Belarus in transition to the green economy
-------------	---	---

PRESENTATIONS

09:50-10:05	KISTERNAYA Margarita V. , Cand.Sci., Deputy Director, Kizhi Open Air Museum	Topical issues in establishing forest sanctuaries to facilitate the preservation of wooden architecture monuments
10:05-10:20	PANOVA Elena V. , Cand.Sci., Sergo Ordzhonikidze Russian State University for Geological Prospecting KHLEBOSOLOVA Olga A. , Dr.Sci., Professor, Sergo Ordzhonikidze Russian State University for Geological Prospecting (online)	The potential of regional PAs in eco- tourism development
10:20-10:35	RAEVSKY Boris V. , Dr.Sci., Leading Researcher, Laboratory of Ecological Monitoring and Modeling, Department for Multidisciplinary Research KarRC RAS	Land cover monitoring in Eastern Fennoscandia using remote sensing data
10:35-10:50	RAMACHANDRA T.V. , PhD,	Natural Capital Accounting and valuation



National Committee
for **BRICS** Research,
Russia



Karelian
Research Centre
Russian Academy
of Sciences



	Coordinator, Energy and Wetlands Research Group, Indian Institute of Science, India <u>(online)</u>	of ecosystem services for formulating climate change resilient policies
<p>09:30-13:00</p> <p>THEMATIC SESSION: “DEVELOPMENT OF INDUSTRIAL ECOLOGY AND GREEN ECONOMY: REGIONAL EXPERIENCES”</p> <p>(Meeting Room of the Institute of Linguistics, Literature and History KarRC RAS)</p> <p>Moderators: Vladimir A. Masloboev, Dr.Sci., Principal Researcher, Laboratory for Interdisciplinary Ecological-Economic Studies, Institute of North Industrial Ecology Problems, Kola Science Centre RAS;</p> <p>Alexander I. Slabunov, Dr.Sci., KarRC RAS Deputy Director General for Research Administration.</p> <p>Online connection link: https://us06web.zoom.us/j/82494159475</p> <p>Conference ID: 824 9415 9475</p> <p>Access code: 452129</p>		
<p>KEYNOTE TALKS</p>		
<p>09:30-10:00</p>	<p>Joint lecture:</p> <p>GUSEVA Tatyana V., Dr.Sci., Professor, Deputy Directory, Environmental Industrial Policy Center</p> <p>BHIMANI Chirag, PhD, Advisor, Universal CO2 Emission and Offset Registry Private Ltd., India; Expert Member BAT (India) and Member of Sub-Group for Study on Cross-Country Comparison of Selected BREFs of BAT Projects of Waste Incineration Sector, Pulp and Paper Sector and Plastics Sector, Environment Directorate, OECD, Paris; Ambassador, Island Innovation</p> <p>offline/online</p>	<p>Harmonizing approaches to benchmarking best available techniques in the pulp-and-paper industry</p>
<p>PRESENTATIONS</p>		



National Committee
for **BRICS** Research,
Russia



Karelian
Research Centre
Russian Academy
of Sciences



10:00-10:15	VOLOSATOVA Arina A. , Cand.Sci., Deputy Director, Environmental Industrial Policy Center	Best available technique as a footing for developing international cooperation in industrial ecology
10:15-10:30	VOROPAEV Alexander I. , Senior Researcher, Institute of Geography RAS, Forest Certification Project Coordinator, Nature & People Foundation	Voluntary forest certification as a sustainable forestry tool: establishment, evolution, current situation, visions, making of the BRICS international certification system
10:30-10:45	PETROV Pavel V. , Senior Manager, Protocol and Corporate Services, Amur Gas Chemical Complex; NCR BRICS Expert	Amur gas chemical complex: environmental solutions in the region's development
10:45-11:00	YERMOLINA Marina A. , Cand.Sci., Associate Professor, World Politics Department, School of International Relations, St. Petersburg State University (online)	Trends and prospects of the BRICS agricultural policies
11:00-11:30	Coffee break	
09:30-13:00		
THEMATIC SESSION: "WATER AND TERRESTRIAL ECOSYSTEMS RESEARCH UNDER CLIMATE CHANGE AND HUMAN IMPACT IN BRICS MEMBER STATES"		
(KarRC RAS Conference Hall)		
Moderators: Mikhail V. Makarov , Dr.Sci., Director, Murmansk Marine Biological Institute RAS (MMBI RAS);		
Nikolai N. Filatov , Dr.Sci., Professor, RAS Corr. Academician, Northern Water Problems Institute KarRC RAS.		
Online connection link: https://zoom.us/j/99723501699		
Conference ID: 997 2350 1699		
Access code: 640914 ⁶		
PRESENTATIONS		

⁶ Please make sure to choose your language in the Zoom menu (bottom right): Off – for source language; English; Russian; Interpretation button in Zoom window.



National Committee
for **BRICS** Research,
Russia



Karelian
Research Centre
Russian Academy
of Sciences

RITM
CARBON

11:30-11:45	BAI Leilei , Ph.D, Assistant Prof., Environmental Science, Nanjing Institute of Geography and Limnology, Chinese Academy of Sciences (online)	Molecular insights into biological lability of dissolved organic carbon in eutrophic freshwater lakes
11:45-12:00	LAVRENTYEV Pyotr Ya. , Cand.Sci., Senior Researcher, Zoological Institute RAS KHALAMAN Vyacheslav V. , Dr.Sci., Director, White Sea Biological Research Station, Zoological Institute RAS	Toxic plankton in the White Sea
12:00-12:15	TOLSTIKOV Aleksey V. , Cand.Sci., Head of Laboratory of Geography and Hydrology, NWPI KarRC RAS	Warming in the Western part of the Russian Arctic according to the data of ERA5 reanalysis and CMIP6 models
12:15-12:30	TSKHAI Alexander A. , Dr.Sci., Professor, Principal Researcher, Institute for Water and Environmental Problems, Siberian Branch RAS (online)	Assessment of the Teletskoe Lake self- purifying capacity using biogenic cycle simulation
12:30-12:45	GOMONOV Alexander D. , Cand.Sci., Deputy Director, Polar Geophysical Institute SKIOTIS Elena I. , Cand.Sci., Assistant Director for International Cooperation, Polar Geophysical Institute	PGI research areas in the Arctic zone

09:30-13:00

**THEMATIC SESSION: "TOPICAL ISSUES OF PA DESIGNATION AND NATURE PROTECTION IN
BRICS MEMBER STATES: OPPORTUNITIES FOR COOPERATION"**

(Meeting Room of the Institute of Geology KarRC RAS)

Moderators: **Andrey V. Samusevich**, Deputy Chairman of Committee on Nature
Management, Environmental Protection and Environmental Safety, St. Petersburg City
Administration;



Alexander A. Titov, Dr.Sci., RAS Corr. Academician, Principal Researcher, Dept. for Multidisciplinary Research Think Tank, KarRC RAS.

Online connection link: <https://zoom.us/j/91034529866>

Conference ID: 910 3452 9866

Access code: 888079⁷

KEYNOTE TALKS

11:30-11:45	SAMUSEVICH Andrey V. , Deputy Chairman of Committee on Nature Management, Environmental Protection and Environmental Safety, St. Petersburg City Administration	St. Petersburg's best practices in metropolitan ecosystem conservation
-------------	--	--

PRESENTATIONS

11:45-12:00	KHLEBOSOLOVA Olga A. , Dr.Sci., Professor, Sergo Ordzhonikidze Russian State University for Geological Prospecting SOSNA Evgenia M. , MSc, Sergo Ordzhonikidze Russian State University for Geological Prospecting (online)	Expanding the Arctic PA network through establishment of industry-disturbed protected areas
12:00-12:15	LAVRINENKO Igor A. , Cand.Sci., Senior Researcher, Head of Laboratory of Dynamics of the Arctic Vegetation Cover, Komarov Botanical Institute RAS LAVRINENKO Olga V. , Cand.Sci., Senior Researcher, Laboratory of Dynamics of the Arctic Vegetation Cover, Komarov Botanical Institute RAS	Habitat inventory and monitoring as a cornerstone of the nature conservation system in the Russian Arctic
12:15-12:30	GALKIN Alexander N. , Dr.Sci., Professor, Department of Ecology and Geography, Masherov Vitebsk	Findings of research on the current state of geological sanctuaries and local-level

⁷ Please make sure to choose your language in the Zoom menu (bottom right): Off – for source language; English; Russian; Interpretation button in Zoom window.



	<p>State University, Belarus</p> <p>KRASOVSKAYA Irina A., Cand.Sci., Head of Research Section, Masherov Vitebsk State University, Belarus</p> <p>TORBENKO Andrey B., Senior Lecturer, Department of Ecology and Geography, Masherov Vitebsk State University</p> <p>(online)</p>	nature monuments in the Vitebsk Region
12:30-12:45	<p>KITOV Alexander D., Cand.Sci., Senior Researcher, Sochava Institute of Geography, Siberian Branch RAS</p> <p>(online)</p>	Green zones of the Irkutsk Science City
12:45-13:00	<p>MERZHVINSKY Leonard M., Cand.Sci., Associate Professor, Department of Basic and Applied Biology, Masherov Vitebsk State University</p>	Dispersal of a dangerous invasive species, box elder (<i>Acer negundo</i> L.), in the Western Dvina catchment within Belarus

09:30-13:00

**THEMATIC SESSION: “DEVELOPMENT OF INDUSTRIAL ECOLOGY AND GREEN ECONOMY:
REGIONAL EXPERIENCES”**

(Meeting Room of the Institute of Linguistics, Literature and History KarRC RAS)

Moderators: Vladimir A. Masloboev, Dr.Sci., Principal Researcher, Laboratory for
Interdisciplinary Ecological-Economic Studies, Institute of North Industrial Ecology
Problems, Kola Science Centre RAS;

Alexander I. Slabunov, Dr.Sci., KarRC RAS Deputy Director General for Research
Administration.

Online connection link: <https://us06web.zoom.us/j/82494159475>

Conference ID: 824 9415 9475

Access code: 452129⁸

PRESENTATIONS

11:30-11:45	SKOBELEV Kirill D. , MIREA -	Specific features of waste processing in the Arctic zone as an element of quality
-------------	-------------------------------------	--

⁸ Please make sure to choose your language in the Zoom menu (bottom right): Off – for source language; English; Russian; Interpretation button in Zoom window.



National Committee
for **BRICS** Research,
Russia



Karelian
Research Centre
Russian Academy
of Sciences



	Russian Technological University	planning
11:45-12:00	LEONOVA Galina A. , Dr.Sci., Leading Researcher, Sobolev Institute of Geology and Mineralogy (online)	Bratsk reservoir mercury contamination problem in the past and now
12:00-12:15	BURVIKOVA Yuliana N. , Cand.Sci., Acting Director, Department for Resource and Ecological Research, Environmental Industrial Policy Center	Production process performance and environmental indicators
12:15-12:30	DIMITRYUK Igor D. , R&D Engineer, University of Tyumen (online)	Producing shippable granular biochar from pine nut shells
12:30-13:45	BALYANOV Georgy A. , Deputy Director, CIS Coordinating Information Center KADYGROB Kirill A. , Deputy Head of Department for Economic Analysis and Corporate Governance, Department of Chemical Industry, Ministry of Trade and Industry of Russia (online)	Development of the BRICS partnership on the new industrial revolution
12:45-13:00	KOLESNIKOVA Anastasiia V. , Cand.Sci., Council for the Study of Productive Forces, Ministry of Economic Development of Russia (online)	Promoting alternative fuel transport as a way to decarbonize the transport industry <i>Kolesnikova A.V.</i>
13:00-14:00	Buffet Lunch (KarRC RAS Library, 5 th floor)	
14:00-15:30	Roundtable for experts in social and political sciences “BRICS+ as a platform for scientific cooperation in the Arctic: challenges and prospects of joint research” (KarRC RAS Conference Hall)	



National Committee
for **BRICS** Research,
Russia



Karelian
Research Centre
Russian Academy
of Sciences



Online connection link: https://zoom.us/j/99723501699 Conference ID: 997 2350 1699 Access code: 640914 ⁹	
<p>Strelnikova I.A. Cand.Sci., Associate Professor, School of International Regional Studies, Faculty of World Economy and International Affairs, HSE University:</p> <p>Zaika Yu.V. Researcher, Luzin Institute for Economic Studies, Kola Science Centre RAS, Head of International Relations Department, Kola Science Centre RAS:</p> <p>Bazegsky D.V., Cand.Sci., Acting Head of Laboratory for Integrated Arctic Studies, Department for Multidisciplinary Research KarRC RAS</p> <p>Vasilyeva A.V. Cand.Sci., Senior Researcher, Laboratory for Integrated Arctic Studies, Department for Multidisciplinary Research KarRC RAS:</p>	<p><i>Climate as an emerging subject area of BRICS+ cooperation in the Arctic and key to a shared Polar agenda.</i></p> <p><i>Visions for international scientific cooperation in the Arctic in the coming decade.</i></p> <p>Lessons from the implementation of environmental projects within EU-Russia Cross-border Cooperation programs 2014-2020 (case study of ENI CBC Karelia) and their application in Russian Arctic regions.</p>
Talks by representatives of federal and regional authorities	
15:40-17:40	<p style="text-align: center;">Session “NGO potential and international activities in addressing sustainable development tasks in the current situation” (KarRC RAS Conference Hall)</p> <p style="text-align: right;">Online connection link: https://zoom.us/j/99723501699 Conference ID: 997 2350 1699 Access code: 640914¹⁰</p>
15:40 - 16:05	<p>Greetings.</p> <p>Inna Kolykhatova, Petrozavodsk City Head.</p>

⁹ Please make sure to choose your language in the Zoom menu (bottom right): Off – for source language; English; Russian; Interpretation button in Zoom window.

¹⁰ Please make sure to choose your language in the Zoom menu (bottom right): Off – for source language; English; Russian; Interpretation button in Zoom window.



National Committee
for **BRICS** Research,
Russia



Karelian
Research Centre
Russian Academy
of Sciences



	<p>Daniel Martseniuk, First Secretary, RF Ministry of Foreign Affairs Office in Petrozavodsk.</p> <p>Elena Topoleva-Soldunova, Commission on Non-profit Sector Development under the Civil Chamber of the Russian Federation, Chairperson, NGO Social Information Agency, Director; Kindness of the North Charity Fund, Director General.</p> <p>Lyubov Kulakova, Karjala Territorial Development Foundation, Director; Cand.Sci., Senior Researcher, Department of Regional Economic Policy, Institute of Economics KarRC RAS; Arctic Zone Public Council under the Ministry of the Russian Federation for the Development of the Russian Far East and Arctic, Vice-Chair.</p>
<p>16:05 - 16:30</p>	<p>Civil society in the BRICS: major trends and mainstream mechanisms of interactions for sustainable territorial development</p> <p>Speakers:</p> <p>Elena Topoleva-Soldunova: BRICS Civil Forum 2024: cooperation horizons in the new geopolitical conditions for global development.</p> <p>Ekaterina Shlapeko, Cand.Sci., Senior Researcher, Department of Regional Economic Policy, Institute of Economics KarRC RAS. Russian public diplomacy: the eastern vector.</p> <p>Nikolai Oskin, Karelian Resource Center of Non-governmental Organizations, Founder. Karelian NGOs’ experience of European cooperation within international projects to be used in cooperation with BRICS and Eastern countries.</p> <p>Vera Meshko, Northern Development Territorial Development Centre, Director; Swedish-Karelian Business and Information Centre, Executive Director. Developing twin-city relationships under external challenges and prospects of networking with friendly states.</p> <p>Fabiano Melnichuk (Brazil), Professor, Federal University of Rio Grande do Sul; NEBRICS research member (online).</p> <p>Sonu Saini (India), Assistant Professor, Center of Russian Studies, Jawaharlal Nehru University (online).</p> <p>Zenebe Kinfu (Ethiopia), Advisor and President, Ethiopian Community Association of Russia; President, Union of African Diaspora in Russia; State Duma expert on cooperation with African states (online).</p>
<p>16:30- 17:25</p>	<p>Sustainable development of peripheral areas and territories traditionally inhabited by indigenous nations: tourism, sports, culture, education, other spheres of life</p>



National Committee
for **BRICS** Research,
Russia



Karelian
Research Centre
Russian Academy
of Sciences



Speakers:

Natalia Belyakova (Russia, Moscow), Director, Expeditions and Tourism Department, Russian Geographical Society; Head of Laboratory for Communications in Creative Industries, Faculty of Creative Industries, Higher School of Economics (HSE University) (online).

Vitaly Tamm, Creative Director, Ecology of Culture Center, Top 10 creative leaders of Russia from Creative Leaders Camp 2023 contest. “Charging up creative industries in the region».

Mayada Belal (Egypt), Founder and Director of International Relations Office, Helwan University (online).

Aleksey Tsykarev (Russia, Petrozavodsk), Russian Educational Competition Program “Indigenous Minorities. School of Public Diplomacy”, Program Director. **North-to-South indigenous people’s cooperation.**

Ekaterina Efremova, Melnitsa Foundation Executive Director; “**Art-Selo - platform for promoting interregional contacts for sustainable development of territories and supporting grassroots initiatives**”.

Natalya Silakova (Karelia), Head of Chalna Rural Settlement Cluster Administration; member of Veps Culture Society; member of the Union of Writers of Russia, member of the Council of Representatives of Karelians, Vepsians and Finns of the Republic of Karelia under the Head of the Republic of Karelia, member of Working Group on Legislative Protection of the Rights of Indigenous Minorities of the North, Siberia and the Far East of the Russian Federation under the State Duma Committee on Nationalities. **Sustainable rural development: ecology of culture and a creative approach in preserving the traditions of peoples of the North.**

Inga Ganevskaya, Chairperson of the Karelian Regional NGO for Preservation of Historical Memory and Cultural Heritage CREDO Poetry Theatre. **A topical vector for developing people's diplomacy projects. Russian language and culture of interaction in the CIS countries.**

Tatyana Saltykova, Development Director, Ecology of Culture Center. **Sludarium green spectrum: sustainable solutions laboratory.** Interactive environmental education platform for children and youth in the historical premises of a creative public space in Petrozavodsk at the Sludarium cultural multicentre.

Aleksey Severikov, NGO Information and Analysis Center, Director; BRICS Academy Board Member «Moral, physical, and mental health of the population as the key to sustainable development of the BRICS».



National Committee
for **BRICS** Research,
Russia



Karelian
Research Centre
Russian Academy
of Sciences



17:25-17:40	<p style="text-align: center;">Wrap-up</p> <p style="text-align: center;">BRICS civil-society interactions.</p> <p style="text-align: center;">Speakers: Daniel Martseniuk.</p> <p style="text-align: center;">Lyubov Kulakova.</p>	
<p style="text-align: center;">14:00-16:15</p> <p style="text-align: center;">THEMATIC SESSION: “DEVELOPMENT OF INDUSTRIAL ECOLOGY AND GREEN ECONOMY: REGIONAL EXPERIENCES”</p> <p style="text-align: center;">(Meeting Room of the Institute of Linguistics, Literature and History KarRC RAS)</p> <p>Moderators: Vladimir A. Masloboev, Dr.Sci., Principal Researcher, Laboratory for Interdisciplinary Ecological-Economic Studies, Institute of North Industrial Ecology Problems, Kola Science Centre RAS;</p> <p>Alexander I. Slabunov, Dr.Sci., KarRC RAS Deputy Director General for Research Administration.</p> <p style="text-align: right;"><u>Online connection link:</u> https://us06web.zoom.us/j/82494159475</p> <p style="text-align: right;">Conference ID: 824 9415 9475</p> <p style="text-align: right;">Access code: 452129¹¹</p>		
KEYNOTE TALK		
14:00-14:15	<p>KLYUCHNIKOVA Elena M., Cand.Sci., Leading Researcher, Laboratory for Interdisciplinary Ecological-Economic Studies, Institute of North Industrial Ecology Problems, Kola Science Centre RAS</p> <p>MASLOBOEV Vladimir A., Dr.Sci., Principal Researcher, Laboratory for Interdisciplinary Ecological- Economic Studies, Institute of North Industrial Ecology Problems, Kola Science Centre RAS</p>	The environmental imperatives of the Russian Arctic
PRESENTATIONS		
14:15-:14:30	<p>RUBANOVA Natalya I., Cand.Sci., Senior Researcher, Institute of</p>	Potential uses of limestone quarry waste in the circular economy

¹¹ Please make sure to choose your language in the Zoom menu (bottom right): Off – for source language; English; Russian; Interpretation button in Zoom window.



National Committee
for **BRICS** Research,
Russia



Karelian
Research Centre
Russian Academy
of Sciences



	Natural and Technical Systems, Sochi Branch (online)	
14:30-14:45	SAKHAROV Yaroslav A. , Cand.Sci., Leading Researcher, Polar Geophysical Institute	Northern Lights as a reflection of space weather
14:45-15:00	ASTAFYEV Alexander V. , Cand.Sci., Researcher, University of Tyumen (online)	Recycling poultry farm waste by pelletizing
15:00-15:15	MERKUSHEVA Maria G. , Dr.Sci., Principal Researcher, Institute of General and Experimental Biology, Siberian Branch RAS (online)	Free amino acids as an indicator of the biological activity of wastewater-irrigated soils
15:15-15:30	BOLONEVA Lyudmila N. , Cand.Sci., Senior Researcher, Institute of General and Experimental Biology, Siberian Branch RAS (online)	Phytostabilization and inducing humus formation in bioremediated technogenic soil
15:30-15:45	IGNATENKO Vladislava A. , 4 th year student, Chair of Student Science Society, Faculty of Geography, Herzen Pedagogical University of Russia	The forest issue as a hot topic in Russia- China relations
16:00-16:15	TOLSTOGUZOV Oleg V. , Dr.Sci. (Econ.), Cand.Sci.(Phys.&Math), Principal Researcher, Institute of Economics KarRC RAS	The political economy of the green economy

14:00-16:15

**THEMATIC SESSION “GLOBAL AND REGIONAL CLIMATE CHANGE, CARBON BALANCE
MONITORING IN BRICS MEMBER STATES”**

(Meeting Room of the Institute of Geology KarRC RAS)

Moderators: **Dmitry O. Skobelev**, Dr.Sci., Director, Environmental Industrial Policy Center;



National Committee
for **BRICS** Research,
Russia



Karelian
Research Centre
Russian Academy
of Sciences



Dmitry A. Yekimov, Senior Researcher, Laboratory of Ecological Monitoring and Modeling, Department for Multidisciplinary Research KarRC.

Online connection link: <https://zoom.us/j/91034529866>

Conference ID: 910 3452 9866

Access code: 888079¹²

PRESENTATIONS

14:00-14:15	EVSTRATOVA Lyubov P. , Dr.Sci., Principal Researcher, Head of Vilga Agrotechnology Laboratory, Department for Multidisciplinary Research KarRC RAS SIDOROVA Valeria A., Researcher, Laboratory of Plant Biotechnology, Department for Multidisciplinary Research KarRC RAS	Carbon pools in agricultural landscapes of southern Karelia
14:15-14:30	BOGOLYUBOVA Nadezhda V. , Dr.Sci., Leading Researcher, Head of Department of Farm Animals Physiology and Biochemistry, Ernst Federal Research Center for Animal Husbandry	Modern approaches to studying the emissions of climate active substances from ruminants
14:30-14:45	BELAN Boris D. , Dr.Sci., Professor, Head of Laboratory, Zuev Institute of Atmospheric Optics, Siberian Branch RAS (online)	Regional system of greenhouse gas monitoring in Siberia
14:45-15:00	KURBANOV Eldar A. , Dr.Sci., Professor, Volga State University of Technology	Predictive analysis of vegetation dynamics in the Middle Volga region based on temporal scenarios
15:00-15:15	LINKEVICH Elizaveta V. , Senior Researcher, Head of Laboratory of Greenhouse Gas Monitoring, Department for Multidisciplinary	Distinctive features of the circadian variation of CO ₂ emissions in a natural and a drained mires in southern Karelia

¹² Please make sure to choose your language in the Zoom menu (bottom right): Off – for source language; English; Russian; Interpretation button in Zoom window.



	Research KarRC RAS	
15:15-15:30	KANZYVAA Svetlana O. , Cand.Sci., Head of Agronomy Department, Tuvan State University	Changes in climatic conditions across ecological zones of the Tyva Republic
15:30-15:45	SYOMIN Denis E. , PhD Student, Leading Physicist, Laboratory of Woody Plant Physiology and Cytology, Forest Research Institute KarRC RAS PRIDACHA Vladislava B. , Cand.Sci., Senior Researcher, Head of Laboratory of Woody Plant Physiology and Cytology, Forest Research Institute KarRC RAS	Estimation of CO ₂ emissions from soil surface in disturbed pine ecosystems of Karelia: spatial and temporal dynamics
15:45-16:00	SOSOROVA Soelma B. , Cand.Sci., Researcher, Institute of General and Experimental Biology, Siberian Branch RAS (online)	Enzymatic activity as a bioindicator of soil ecological condition (Zakamensk Town case study)
16:00-16:15	YEKIMOV Dmitry A. , Cand.Sci., Senior Researcher, Laboratory of Ecological Monitoring and Modeling, Department for Multidisciplinary Research KarRC RAS	Monitoring CO ₂ emissions from farmland organogenic soils of Karelia

POSTER PRESENTATIONS

“Global and regional climate change, carbon balance monitoring in BRICS member states”	
YETYLINA Anastasiia S. , Researcher, PhD Student, Beringia National Park, Komarov Botanical Institute RAS	Communities with <i>Cassiope tetragona</i> on south-eastern Chukotka Peninsula (online)
GUSEVA Olga A. , Cand.Sci.,	Air temperature changes in the Yaroslavl and adjacent

<p>P.G.Demidov Yaroslavl State University YAKIMOVA Olga P., Dr.Sci., P.G.Demidov Yaroslavl State University</p>	<p>regions (online)</p>
<p>“Water and terrestrial ecosystems research under climate change and human impact in BRICS member states”</p>	
<p>KOZLOVA Tatyana A., Cand.Sci., Institute of Natural and Technical Systems, Sochi Branch</p>	<p>Specific features of toxicological control of wastewater and natural waters on the Sochi coast of the Black Sea (online)</p>
<p>CHERDAKOVA Alina S., Cand.Sci., Associate Professor, Department of Geography, Ecology, and Tourism, Ryazan State University</p>	<p>Pneumatic separation of oil products from wastewater in the presence of a humic agent (online)</p>
<p>ORLOV Aleksey M., Dr.Sci., Head of Laboratory, Shirshov Institute of Oceanology RAS</p>	<p>Ongoing borealization of the Siberian Arctic marine fish fauna under climate change</p>
<p>“Topical issues of PA designation and nature protection in BRICS member states: opportunities for cooperation”</p>	
<p>ROZENTSVET Olga A., Dr.Sci., Institute of Ecology of the Volga River Basin, Samara Federal Research Centre RAS</p>	<p>Variation of morphological, physiological and biochemical characteristics of <i>Gypsophila volgensis</i> leaves along the geographical gradient</p>



National Committee
for **BRICS** Research,
Russia



Karelian
Research Centre
Russian Academy
of Sciences

RITM
CARBON

20th SEPTEMBER, FRIDAY

Excursions for conference participants (optional):

- [Kivach Nature Reserve](#) and [Girvas Paleovolcano](#)
- [Ruskeala Mining Park](#)
- Tour of Petrozavodsk, visit to the [KarRC RAS Museum of Applied Environmental Research](#)