



Federal State Budget Educational Institution of Higher Education  
"RUSSIAN STATE HYDROMETEOROLOGICAL UNIVERSITY" (RSHU)  
*World Meteorological Organization (WMO) Regional Training Centre in Russian Federation*

Federal State Autonomous Educational Institution of Higher Education  
"MOSCOW STATE INSTITUTE OF INTERNATIONAL RELATIONS (UNIVERSITY)  
OF THE MINISTRY OF FOREIGN AFFAIRS OF THE RUSSIAN FEDERATION" (MGIMO)

RUSSIAN-FRENCH CIVIL SOCIETY FORUM "TRIANON DIALOGUE"

## **INFORMATION LETTER**

International Scientific and Practical Conference  
**"ARCTIC DAYS IN ST. PETERSBURG - 2021: INTERNATIONAL SCIENTIFIC  
COOPERATION IN THE ARCTIC IN THE ERA OF CLIMATE CHANGE"**



**November 25 - 26, 2021**  
**St. Petersburg, Russia**

Dear colleagues!

Russian State Hydrometeorological University together with the Moscow State Institute of International Relations (University) invite to participate in the International Scientific and Practical Conference "ARCTIC DAYS IN ST. PETERSBURG - 2021: INTERNATIONAL SCIENTIFIC COOPERATION IN THE ARCTIC IN THE ERA OF CLIMATE CHANGE" through the Russian-French Civil Society Forum "TriDialogue," November 25 - 26, 2021 in St. Petersburg, Russia.

The purpose of the conference is to form an international interdisciplinary platform for discussing topical issues of climate change and assessing their impact on further socio-economic development and international cooperation in the Arctic. Special attention will be paying to find the ways to implement an environmentally sustainable model of development of the region

The conference will be attended by leading scientists from Russia, France, Norway, Finland and other countries, leaders of organizations of indigenous small peoples of the North, representatives of the diplomatic corps and relevant state authorities, as well as professional associations that are engaged in research in the Arctic region and are focused on the development of economic and scientific cooperation in the Arctic.

➤ **KEY DATES:**

- **September 7, 2021** – First information letter
- **September 7, 2021** – start of applications and theses registration by the official conference e-mail [arcticdays2021@rshu.ru](mailto:arcticdays2021@rshu.ru).)
- **October 6, 2021**– Second information letter
- **November 1, 2021** – End of registration and reception of abstracts of reports
- November, 2021 – establishment of the Conference Program
- **November 25-26, 2021** – Conference holding

**VENUE:**

- Russian National Library (Russia, St. Petersburg, Moscow ave., 165, k.2)
- Russian State Hydrometeorological University (RSHU), (Russia, St. Petersburg, Rizhsky ave., 11).

## THEMATIC SECTIONS AND THEIR MAIN AREAS OF WORK

During the conference, it is planning to highlight a wide range of issues affecting the development of the Arctic region:

1. Plenary session (*hearing of reports on the main topics of the conference*)
2. Round table number 1. *Climate change and sustainable development in the Arctic region*
3. Round table number 2. *Changing the gas and aerosol composition of the Arctic atmosphere in a changing climate*
4. Round table number 3. *Ecosystems of the Arctic region in the face of global change*
5. Round table number 4. *Socio-economic aspects of Arctic development*

## RULES OF THE CONFERENCE

Following the conference, the organizing committee plans to publish an electronic collection of articles made on the material of the reports, which will be included in the RSCI database. Certificates of participants will be issued and represented to the conference participants.

**The working language of the conference is ENGLISH, RUSSIAN.**

**Participation is FREE.**

Applications for participation with a report will be accepted ONLY via the official conference mail [arcticdays2021@rshu.ru](mailto:arcticdays2021@rshu.ru) in accordance *with the conference rules* (example you can find on page 10).

The Programme Committee reserves the right to select reports. Preference will be given to topical reports presenting new results on stated topics. Applications that do not correspond to the topic of the conference will not be considered or reviewed.

Questions regarding the participation and materials presentation can be sent to the executive secretary, **E.V. Platonova**, by the email address: [platonova@rshu.ru](mailto:platonova@rshu.ru).

The presentation time is up to 15-20 minutes.

Remote participation is possible during the conference by online format.

Participation in absentia **will not be provided**.

Official conference page: [http://www.rshu.ru/university/science/konf\\_arctic2021/](http://www.rshu.ru/university/science/konf_arctic2021/)

## ROUND TABLE NO. 1

**Climate change and sustainable development in the Arctic region****Moderator: Malinin Valery Nikolaevich***Professor of the Applied Oceanography of UNESCO-IOC Department and Integrated Coastal Zone Management of RSHU***Date:** November 26, 2021, 10:00 - 13:00**Venue:** Russia, St. Petersburg, Rizhsky ave., d.11 (Russian State Hydrometeorological University)

The Arctic region has three strategic values (huge natural resources, infrastructure perspective, national security), which determine its dominant importance for ensuring the geopolitical and geoeconomic position of Russia in the world and for its internal development. However, the Arctic is a very vulnerable region to climate change. As you know, in recent decades there has been global warming of the climate. Over the past forty years, the global air temperature has increased by 0.8 ° C. In the Arctic regions, it grew by 2.5-3.0 ° C, i.e., it grew on average 3.5 times faster. Naturally, this cannot but have a huge impact on the natural environment, fauna and lifestyle of the indigenous people of the Arctic.

In this regard, the sustainable development of the Arctic is very important, which means minimizing damage to the natural environment during the industrial development of the resources of the Arctic zone, reducing the risk to life from the effects of climate change and weather and climate events.

Basing on the abovementioned, the main **objectives** of round table no. 1 are:

- Analysis of current climate variability and weather and climate events in the Arctic,
- Assessment of possible future climate characteristics change,
- Identification of positive/negative effects of possible impacts of climate change on the natural environment, fauna and indigenous Arctic people lifestyles.

## ROUND TABLE NO. 2

**Changing the gas and aerosol composition of the Arctic atmosphere in a changing climate****Moderator: Smyshlyaev Sergey Pavlovich***Professor of Department of Meteorological Forecasts, FSEI HPE RSHU***Date:** November 26, 2021, 10:00 - 13:00**Venue:** Russia, St. Petersburg, Rizhsky ave, d.11 (Russian State Hydrometeorological University)

Climate change in the Arctic is several times faster than the global average. In addition to rising temperatures, climate change in the Arctic is also manifested in a decrease in land ice cover, melting permafrost, a decrease in the area covered by ice of the Arctic Ocean and an increase in the area of open water and ocean surface temperature.

In addition to the reverse effect on air temperature, which leads to the Arctic increase in climate change, these phenomena also change the conditions of physical and chemical processes in the Arctic atmosphere, which determine the gas composition of the Arctic atmosphere. In addition, climate change occurs in the context of intensifying economic activity in the Arctic, such as increasing hydrocarbon production on the Arctic shelf and intensifying navigation along the Northern Sea Route. All this can lead to a change in the gas composition of both the lower and middle atmosphere of the Arctic.

The round table will address changes in the gas composition of the troposphere and stratosphere of the Arctic initiated by climate change:

1. Changes in ground-level ozone due to changes in chemical reaction rates as a result of increased temperature;
2. Impact of increased hydrocarbon emissions from permafrost melting on tropospheric gas composition;
3. Melting of marine gas hydrates in the Arctic and their effect on the gas composition of the atmosphere;
4. The impact of ship emissions on the gas composition of the Arctic in conditions of intensification of navigation along the Northern Sea Route;
5. Change in aerosol gas exchange between the ocean and the atmosphere as a result of melting Arctic ice;

6. Changing the resilience of the Arctic polar vortex in a changing climate and its impact on stratospheric temperature and the gas composition of the stratosphere and troposphere;
7. The effect of stratospheric cooling on the formation of polar stratospheric clouds and the gas composition of the stratosphere.

## ROUND TABLE NO. 3

**Ecosystems of the Arctic region in the face of global change****Moderator: Eremina Tatyana Ramovna***Directorate of the IGIO Institute, FSEI HPE RSHU***Date:** November 26, 2021, 14:00 - 17:00**Venue:** Russia, St. Petersburg, Rizhskiy ave, d.11 (Russian State Hydrometeorological University)

Modern ecosystems of the Arctic seas operate under conditions of climate change and increased anthropogenic impact. Warming is of great importance to the Arctic seas. Melting ice, increasing river runoff into the North Atlantic, this all causes changes in the nature of currents - all these factors affect the ecosystems of the Arctic seas, make a significant contribution to the formation of the number and species composition of hydrobiont communities. However, Arctic marine ecosystems are low in biodiversity compared to temperate and tropical latitudes, making them fragile and highly unstable to external impacts. Therefore, the impacts of climate change on Arctic ecosystems may be larger and less predictable. Along with climate change, there is an active economic development of the Arctic. Exploration, oil and gas production, intensification of shipping, construction of ports and development of fisheries also have a significant negative impact on the state of ecosystems. The consequences are poorly understood, which poses a threat to the state and functioning of the ecosystems of the Arctic seas.

To assess existing threats to Arctic marine ecosystems, it is suggested to discuss following issues during the round table:

1. Impact of climate change on marine ecosystems of the Arctic seas and possible impacts;
2. The current state of Arctic bioresources;
3. Arctic fisheries, fisheries stocks and impacts on ecosystems;
4. Pollution of marine ecosystems, development of conservation measures for marine ecosystems under anthropogenic impacts and climate change;
5. Marine debris and microplastics in the Arctic: sources, distribution, accumulation.

## ROUND TABLE NO. 4

**Socio-economic aspects of Arctic development****Moderators: Brazovskaya Yana Evgenievna***Assistant Rector for Arctic Affairs of FSEI HPE RSHU***Rozanova Marya Sergeevna***Advisor to the Rector of FSEI HPE RSHU***Date:** November 26, 2021, 14:00 - 17:00**Venue:** Russia, St. Petersburg, Rizhskiy ave, d.11 (Russian State Hydrometeorological University)

The Arctic has attracted and continues to attract the close attention of statesmen and the scientific community, scientific and research interest in the Arctic is associated not only with climate changes actively observed on our planet. Reducing the ice cover opens up new prospects, such as the development of Arctic hydrocarbons, the development of shipping and tourism.

In realizing these perspectives, it is important to find a balance between the social, economic and environmental dimensions, including through enhanced synergy and constructive cooperation based on respect for the rule of law. Already today, demographic changes, gender inequality in the Arctic are a problem for the sustainable development of the Arctic regions. The preservation and protection of the culture, life of the indigenous peoples of the North, the creation of a favorable social environment for the population of the northern regions, and the attraction of labor resources should form the basis for the development of the Arctic.

In light of the priority theme of the Russian Federation's chairmanship of the Arctic Council - "Responsible management for the sustainable Arctic," the session "Socio-economic aspects of Arctic development" within the framework of the International Scientific and Practical Conference "Arctic Days in St. Petersburg: International scientific cooperation in the Arctic in the era of climate change" will contribute to the development of a comprehensive approach to Arctic development.

**Directions of the Round Table:**

- polar archaeological research and discoveries;
- Arctic economic development scenarios;
- the future of trans-Arctic shipping;
- Development of human and social capital in the Arctic;
- The role of Arctic indigenous peoples in the sustainable development of the region;



- Gender studies in the Arctic;
- Prospects for international cooperation in the Arctic region;
- Franco-Russian scientific partnership: from the past to the future.

**The main objectives of the Round Table are:**

Identify the main threats and factors affecting the socio-economic development of the Arctic, analyze trends in socio-economic development and as a result determine the key directions for the further development of the Arctic.

## CONFERENCE DOCUMENTATION REQUIREMENTS

To participate in the conference, you need to send an application and talking points to the e-mail address [arcticdays2021@rshu.ru](mailto:arcticdays2021@rshu.ru). The application must contain the full name, place of work, position and contact details of the authors, as well as the text of theses in English with a length of up to 2 pages.

*The materials* are presented as a file in MS Word text editor, A4 format, Times New Roman font, 12 kegl, line spacing - 1 pt, fields of 20 mm, paragraph indentation 1.25 cm. All tables, graphs, diagrams and figures must be made up with translation into Word format. Additionally, please provide pictures with separate files.

*Presentations* for reports are requested not later than 10 days prior to the conference. Links are drawn up in straight brackets with a number on the list of sources used, placed at the end of the article, and cited pages.

The text of the article should contain:

1. F.I.O. author (s) (bold in the center of the page) after 1 interval from the title of the article.
2. Name (bold in capital letters at the center of the page).
3. Name of the institution or organization (in the usual font in the center of the page).
4. Author's e-mail (in normal font at the center of the page)..
5. Annotation (500 characters maximum with spaces) and keywords (10 words maximum).
6. The text of the article.
7. List of sources and literature used.

The presentation time is up to 20 minutes. By the beginning of the conference, a collection of conference materials will be published.

## PROGRAMME COMMITTEE OF THE CONFERENCE

1. **Artur Nikolaevich Chilingarov the Chairman of Program committee of a conference**, the special representative of the President of the Russian Federation on the international cooperation in the Arctic and Antarctic, of of N, professor, the Deputy of the State Duma of Federal Assembly of the Russian Federation, the President of MOS) "Association of polar explorers", the First Vice president of the Russian Geographical Society, the Hero of the Soviet Union, the Hero of the Russian Federation, the Winner of the State award of the USSR, the Corresponding member of RAS, the President of the Russian state hydrometeorological university
2. **Anatoly Torkunov Vasilevich, Co-Chair of the Conference Program Committee**, Rector of MGIMO of the Russian Ministry of Foreign Affairs, Academician of the Russian Academy of Sciences, Ambassador Extraordinary and Plenipotentiary
3. **Mikheev Valery Leonidovich** Deputy Chairman of the Conference Program Committee, Rector, Associate Professor, Candidate of Legal Sciences

### Members of the Conference Programme Committee:

4. **Afanasenkov Alexander Petrovich** First Deputy General Director - Head of Production Unit, Member of the Management Board, Doctor of Geological and Mineralogical Sciences
5. **Bezdudnyy Yuri Vasilievich** Governor of the Nenets Autonomous Okrug
6. **Vasiliev Anton Vsevolodovich** Deputy Director of the RSHU Representative Office in Moscow
7. **Vasiliev Sergey Alexandrovich** head of the Paleolithic department of the Institute of the History of Material Culture of the Russian Academy of Sciences, Doctor of Historical Sciences
8. **Veysalova Nina Glebovna** First Vice President of the Association of Small Indigenous Peoples of the North, Siberia and the Far East of the Russian Federation
9. **Golovnev Andrei Vladimirovich** Director of the Peter the Great Museum of Anthropology and Ethnography (Kunstkamer) RAS, Professor, Corresponding Member of the Russian Academy of Sciences, Doctor of Historical Sciences
10. **Grigoriev Evgeny Dmitrievich** Chairman of the Committee on External Relations of St.

Petersburg

**11. Ivanov Vitaly Gennadievich** Chairman of the Board of Port Sillamae JSC, Member of the Board of Silpower JSC; Member of the Board of Silsteve JSC; Member of the Board of Silport kinnisvara JSC; Member of the Board of Optial Holding OU; Board member kitkovest OU (Finland); Member of the Board of Penoplex Holding, (Russia)

**12. Kambolov Marat Arkadevich** Vice President of the Kurchatov Institute National Research Center

**13. Kaminsky Valery Dmitrievich** General Director (Director) of FSBI VNII Oceangeology, Corresponding Member of the Russian Academy of Sciences, Doctor of Geological and Mineralogical Sciences

**14. Kapitanov Oleg Aleksandrovich** , Member of the Government of St. Petersburg, Chairman of the Committee on Interethnic Relations and the Implementation of Migration Policy in St. Petersburg

**15. Kovalchuk Mikhail Valentinovich** President of the Kurchatov Institute National Research Center

**16. Kudryashova Elena Vladimirovna** Rector of the Northern (Arctic) Federal University named after M.V. Lomonosov

**17. Lapshin Vladimir Anatolyevich** Director of IIMK RAS, Doctor of Historical Sciences

**18. Ledkov Grigory Petrovich** President of the Association of Indigenous Small Peoples of the North, Siberia and the Far East of the Russian Federation

**19. Maksimov Andrey Stanislavovich** Chairman of the Committee on Science and Higher School of St. Petersburg

**20. Orlov Alexander Konstantinovich** Executive Secretary of the Russian-French Civil Society Forum "Trianon Dialogue"

**21. Petrov Andrey Nikolaevich** President of the International Association of Arctic Social Sciences (IASSA)

**22. Pozdnyakov Shamil Raufovich** Director of the Russian Academy of Sciences, Doctor of Geographical Sciences

**23. Potekhin Alexander Vladislavovich** Chairman of the North-West Media Association (ASMI), Director of the TASS North-West RIC

**24. Solomina Olga Nikolaevna** corresponding member of the Russian Academy of Sciences,

director of the Institute of Geography of the Russian Academy of Sciences, Nobel Peace Prize laureate as part of the IPSS team of scientists (2007)

**25. Somov Sergey Borisovich** head of Kovdorsky district

**26. Sukhenko Konstantin Eduardovich** Chairman of the Committee on Culture of St. Petersburg

**27. Sychev Yury Fedorovich** Director of RSHU Representative Office in Moscow

**28. Uiba Vladimir Viktorovich** Head of the Komi Republic

**29. Shirokov German Germanovich** Chairman of the Committee on Arctic Affairs of St. Petersburg

**30. Shumakov Igor Anatolyevich** Head The Federal Service for Hydrometeorology and Environmental Monitoring (Rosgidromet)

**30. Henry de Lumley** Corresponding Member of the Academy of Sciences and the Academy of Inscriptions and Fine Literature, Director of the Institute of Human Paleontology - Scientific Institution founded by Prince Albert of Monaco, Professor

**31. Bertrand Chapron** Head of the Laboratory of Space Oceanography (French Institute for Ocean Research and Development (IFREMER))

**32. Jean Malaurie** Director of the Center for Arctic Research, Sorbon University, Honorary President of the Russian State Hydrometeorological University, Professor

**33. Lilia D. Alfredsdottir** Minister of Education, Science and Culture of Iceland

**34. Marie-Antoinette de Lumley** Honored Scientist, Chief Researcher, National Research Center

**35. Panagiotis Tsakos** Captain Tsakos Columbia Shipmanagement ("TSM") S.A.

**36. Jan Borm** Vice President for International Relations, University of Versailles Saint-Catherine-Yveline, Professor.

## ORGANIZATIONAL COMMITTEE

### **Chairman:**

**MIKHEEV Valery Leonidovich**, Ph.D., associate professor, rector of RSHU.

### **Vice-Chairman:**

**LEONTEV Denis Valentinovich**, Ph.D., Acting Vice-Rector for Scientific Work of RSHU, Vice-Rector for Development of RSHU.

**MYASNIKOV Igor Gennadievich**, Director of the Department of Science, Technology and Innovation of RSHU (DNTI)

### **Executive Secretary of the Conference:**

PLATONOVA Evgenia Vladimirovna, engineer of DNTI RSHU.

### **Members of the Organizational Committee of the Conference:**

1. **BIKEZINA Tatyana Vasilievna**, Ph.D., associate professor, vice-rector for economic work of RSHU.
2. **BRAZOVSKAYA Yana Evgenievna**, Assistant Rector for Arctic Affairs, RSHU;
3. **BRYKSENKOV Andrey Aleksandrovich**, Deputy Director of the RSHU Representative Office in Moscow.
4. **EREMINA Tatyana Ramovna**, Ph.D. Associate Professor, Director of the Institute of Hydrology and Oceanology of RSHU.
5. **MALININ Valery Nikolaevich**, Ph.D., Professor, Institute of Hydrology and Oceanology, RSHU.
6. **OSIPOV Vadim Yuryevich**, Vice-Rector for Administrative and Economic Work of RSHU.
7. **PALKIN Ivan Ivanovich**, Ph.D., associate professor, first vice-rector of RSHU;
8. **ROZANOVA Marya Sergeevna**, adviser to the rectory of RSHU;
9. **RYABOVA Maria Igorevna**, Assistant Rector of MGIMO, Director of the Secretariat of the Trianon Dialogue;
10. **SMYSHLYAEV Sergey Pavlovich**, D. Ph.D., Professor of the Department of Weather Forecasts, RSHU.
11. **MALGIN Artem Vladimirovich**, Vice-Rector for Development - Chief of Staff of the Rector of MGIMO.

**CONTACT INFORMATION:**

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**SEE YOU AT THE**  
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