

Ministry of Science and Higher Education of the Russian Federation
Saint Petersburg State University of Architecture and Civil Engineering (SPbGASU)
Institute for Traffic Safety, SPbGASU
École de Technologie Supérieure
Solomenko Institute of Transport Problems of the Russian Academy of Sciences
Russian Transport Academy

International Conference on Arctic Transport Accessibility: Networks and Systems



June 2-4, 2021
St. Petersburg

Organizing Committee

CHAIRMAN

Evgeny Rybnov – D.Sc. in Economics, Professor, PhD in Engineering, Senior Researcher, Honoured Worker of Higher Education of the Russian Federation, First Vice-President of the International Public Organization of Assistance to Construction Education (ASV), Honorary member of the Russian Academy of Architecture and Construction Sciences (RAACS), Rector of Saint Petersburg State University of Architecture and Civil Engineering (SPbGASU).

DEPUTY CHAIRPERSONS

Irina Drozdova – D.Sc. in Economics, Professor, Vice Rector for Science, Saint Petersburg State University of Architecture and Civil Engineering (SPbGASU);

Alexander Pushkarev – D.Sc. in Engineering, Professor, Full Member of the Academy of Mining Sciences (AGN); Academician of the International Academy of Ecology and Life Safety (IASH); Full Member of the Russian Academy of Transport (RAT); Full Member (Academician) of the International Academy of Cold (IAH); Professor of the Department of Land Transport and Technological Machines of SPbGASU;

Sergey Evtyukov – D.Sc. in Engineering, Professor, Honoured Worker of Higher Education of the Russian Federation, full member of the International Association of Accident Reconstruction Specialists (IAARS, USA), the Russian Transport Academy, International Transport Academy, Doctor of Philosophy in the field of jurisprudence (DPH), Head of the Institute for Traffic Safety, SPbGASU; Head of the Department of Land Transport and Technological Machines of SPbGASU.

Members of the Organizing Committee

Gregory Ginzburg – Doctor of Business Administration, full member of the International Association of Accident Reconstruction Specialists (IAARS, USA);

Robert Hausler – Professor, Construction Engineering Department, École de Technologie Supérieure (Montreal, Canada);

Rajczyk Jaroslaw – D.Sc. in Engineering, Professor, Head of Department, Czestochowa University of Technology (CUT) (Poland);

Rosen Ivanov – Professor, Head of Department “Engines and Vehicles”, International Relations Coordinator of Transport Faculty, UNIVERSITY OF RUSE (Bulgaria);

Kazem Reza Kashyzadeh – Associate Professor in the Department of Transport, Engineering Academy, PFUR, Associate Professor of the Department of Civil Engineering, Islamic Azad University, Associate Professor of the Department of Mechanical Engineering, Sharif University of Technology (Iran);

Pavel Kravchenko – D.Sc. in Engineering, Professor, Honoured Worker of Higher Education of the Russian Federation, academic supervisor of the Institute for Traffic Safety, SPbGASU; professor-consultant of the Department of Land Transport and Technological Machines, SPbGASU (St. Petersburg);

Denis Kapski – D.Sc. in Engineering, Associate Professor, Dean of Automotive and Tractor Faculty of the Belarusian National Technical University (Belarus);

Maria Karelina – D.Sc. in Engineering, Doctor of Pedagogical Sciences, Professor, Vice-Rector for Scientific Work of MADI, Head of the Department “Machine Parts and Mechanism Theory” of MADI (Moscow);

Igor Malygin – D.Sc. in Engineering, Professor, Director of Solomenko Institute of Transport Problems of the Russian Academy of Sciences (St. Petersburg);

Alexander Novikov – D.Sc. in Engineering, Professor, Honoured Worker of Higher Education of the Russian Federation, full member of the Russian Transport Academy, Director of Polytechnic Institute named after N.N. Polikarpov of Orel State University (Orel);

Sergey Koryagin – D.Sc. in Engineering, Director of Engineering and Technical Institute of I.Kant Baltic Federal University, Professor of the Department of Machine Science and Technical Systems (Kaliningrad);

Igor Pugachev – D.Sc. in Engineering, Professor, Vice Rector for Research, Pacific State University (TSOGU), Professor of the Department of Highways (Khabarovsk);

Igor Danilov – D.Sc. in Engineering, Professor, Director of Transport Department, Engineering Academy, PFUR (Moscow);

Alexander Marusin – PhD in Engineering, Associate Professor of the Department of Transport, Engineering Academy of PFUR (Moscow);

Irina Tkachenko – PhD in Engineering, Construction Engineering Department, École de Technologie Supérieure (Montreal, Canada);

Yury Trofimenko – D.Sc. in Engineering, Professor, Honoured Scholar of the Russian Federation, Vice-President of the Russian Transport Academy, Head of Technosphere Safety Department, Moscow Automobile and Road Construction State Technical University (MADI) (Moscow);

Konstantin Golovin – D.Sc. in Engineering, Professor, Head of the Department of Urban Construction, Architecture and Design, Federal State Budgetary Educational Institution of Higher Professional Education “Tula State University” (Tula);

Nikolai Sokolov – PhD in Engineering, Associate Professor, General Director of LLC “Research and Production Firm “FORST” (Cheboksary);

Pavel Pegin – D.Sc. in Engineering, Professor, Head of the Department of Airports and Air Transportation, St. Petersburg State University of Civil Aviation (St. Petersburg);

Vladimir Lozhkin – D.Sc. in Engineering, Professor, Professor of Fire, Rescue Equipment and Automobile Department of St. Petersburg University of State Fire Service of the Ministry of Emergency Situations of Russia (St. Petersburg);

Andrey Zazykin – PhD in Engineering, Associate Professor, Dean of the Faculty of Automobile and Road Building, SPbGASU (St. Petersburg);

Alexander Panin – PhD in Engineering, Associate Professor, Dean of the Faculty of Civil Engineering, SPbGASU (St. Petersburg);

Alexander Solodky – D.Sc. in Economics, Associate Professor, Honoured Worker of the Transport Industry of the Russian Federation, full member of International Transport Academy, Head of the Department of Transport Systems, SPbGASU (St. Petersburg);

Maria Klekovkina – PhD in Engineering, Associate Professor, Head of the Department of Motor Roads, Bridges, and Tunnels, SPbGASU (St. Petersburg);

Viktor Dobromirov – D.Sc. in Engineering, Professor, full member of the Russian Transport Academy and the Russian Academy of Quality Problems, Professor of the Department of Land Transport and Technological Machines, SPbGASU (St. Petersburg);

Igor Chernyaev – PhD in Engineering, Associate Professor, Head of the Department of Transport Maintenance, SPbGASU (St. Petersburg);

Aleksey Marusin – PhD in Engineering, Associate Professor, Department of Transport Maintenance, SPbGASU, Deputy Chairman of the Council of Young Scientists, SPbGASU (St. Petersburg).

Secretaries of the Organizing Committee

Nikolai Podoprigora – PhD in Engineering, Associate Professor of Land Transport Technological Vehicles Department, SPbGASU, Chairman of the Council of Young Scientists, SPbGASU (Saint-Petersburg);

Denis Orlov – Document specialist, Department of Land Transport and Technological Machines, graduate student of LTTM Department, SPbGASU (St. Petersburg).

Conference Aim

The main aim of the conference is to find solutions to topical issues, unite efforts, exchange experience and research results of leading scientists and specialists in all aspects of improving the accessibility of the Arctic regions, developing transport networks and systems that are resistant to climate impacts.

Key focus of Conference

- Monitoring of transport infrastructure facilities in the Arctic zone, collection, transmission and processing of the received data, complex display and decision-making based on them.
- Development of technologies and equipment for construction in permafrost conditions.
- Development of methods for ensuring the required level of reliability of machines during operation in Arctic conditions.

Conference Results

Conference Proceedings indexed in foreign citation systems (Scopus and Web of Science).

Conference Sections

1. ENHANCING ACCESSIBILITY OF THE ARCTIC REGIONS.
2. INNOVATIVE TECHNOLOGIES AND EQUIPMENT.
3. INTERNATIONAL COOPERATION.
4. ROUND TABLE “YOUNG SCIENTISTS”.

Section 1. ENHANCING ACCESSIBILITY OF THE ARCTIC REGIONS

- The current state of transport infrastructure in the Arctic zone of Russia.
- Development of transport infrastructure (railways, waterways and roads), expansion of the network of airports and landing sites.
- Ensuring the durability and operational reliability of roads and transport infrastructure facilities.
- Development of systems of situation monitoring and forecasting of man-made emergencies in the Arctic zone.
- The state and development of information and communication infrastructure.
- Problems of ensuring the stability of buildings and structures, ways to eliminate or reduce the negative impact of climate change.

Section 2. INNOVATIVE TECHNOLOGIES AND EQUIPMENT

- Development of technology and equipment for drilling in permafrost conditions.
- Development of methods to ensure the required level of reliability of machines when operating in arctic conditions.
- Development of materials and equipment for use in the Arctic conditions.
- Development and application of effective engineering solutions to prevent damage to infrastructure elements due to global climate change.
- Development of construction materials and structures for operation in the Arctic conditions.

Section 3. INTERNATIONAL COOPERATION

- Experience of practical application of the results of scientific research in the conditions of the Arctic zone.
- Personnel training and bringing the system of professional education and further education in compliance with the predicted staffing needs of employers in the economy and social sphere of the Arctic zone.
- Intensification of international economic, scientific and humanitarian cooperation on the development of the Arctic zone.
- Creating a state system for monitoring and preventing the negative consequences of permafrost degradation.

Section 4. ROUND TABLE “YOUNG SCIENTISTS”.

The format of the conference

The conference is planned to be held offline and in the remote format using the Microsoft Teams corporate platform.

Pre-registration is required.

Working languages: Russian, English, French.

Registration Deadlines

Period of registration of conference participants:

- From February 12, 2021 to May 25, 2021.
- Registration deadline for participants with a report: May 1, 2021.
- Registration deadline for participants without a report: May 25, 2021.

Publication

- Conference Proceedings indexed in Scopus and Web of Science are published in English in “Transportation Research Procedia”, publishing house Elsevier BV (SJR 2019 = 0,48 comparable to the Q2 journals of the subject area “Social Sciences” of the field of study “Transport” (SA-Social Sciences (Transportation))).
- Articles are submitted in Russian and English according to the template and submitted to the Organizing Committee together with all the documents listed in the requirements until 30 March 2021 following the link to the EasyChair portal.
- Link to the portal for downloading articles in accordance with the template: easychair.org/conferences/?conf=ata2021

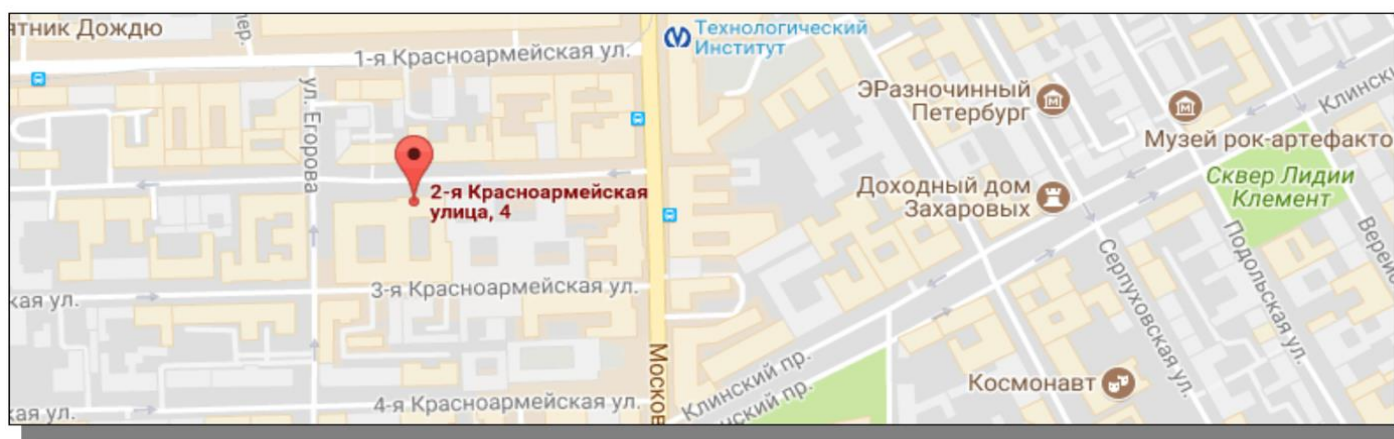
- Requirements for preparing articles are published on the conference website: arctic.spbgasu.ru

Participation Fees

- EUR 70 (including 20% VAT) – full-time participation in the Conference, the price includes: conference materials, lunches, a social dinner, cultural programme.
- Remote participation via Microsoft Teams is free.
- EUR 300 – publication of a paper in the Conference Proceedings, indexed in Scopus and Web of Science, in “Transportation Research Procedia”, publishing house Elsevier BV (SJR 2019 = 0,48 comparable to the Q2 journals of the subject area “Social Sciences” of the field of study “Transport” (SA-Social Sciences (Transportation))) (including 20% VAT), the price includes: reviewing, interaction with the journal on technical issues of presentation of materials and translation into English.

Contact Info

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