



Russian Society for Ecological Economics
International Society for Ecological Economics
Russian Foundation for Basic Research
(Department of Humanities and Social Sciences)
Karelian Research Centre RAS
Institute of Economics KarRC RAS
Government of the Republic of Karelia
Ministry of Nature Management and Environment of the Republic of Karelia
Petrozavodsk State University



14th International Conference of the
Russian Society for Ecological Economics
RSEE-2017

Ecological and economic problems of development of regions and countries
(sustainable development, management of natural resources)

July 3-7, 2017

Petrozavodsk, Republic of Karelia, Russia

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Day-by-day agenda

July 3

9.00–23.00 arrival and accommodation of participants

July 4

9.00–10.00 registration
10.00–12.00 opening of the conference, plenary session
12.00–12.30 coffee break, tour of the Karelian birch exhibition
12.30–14.30 plenary session continued
14.30–16.00 lunch
16.00–18.00 roundtable I
16.00–18.00 roundtable II
18.30–19.30 standing buffet

July 5

10.00–12.00 plenary session
12.00–12.30 coffee break, tour of the Karelian birch exhibition
12.30–14.00 thematic sessions
14.00–15.00 lunch
15.00–16.30 thematic sessions
16.30–17.00 coffee break and poster presentations
17.00–18.00 thematic sessions
18.00–19.30 city tour

July 6

10.00–18.00 excursions to nature conservation areas

July 7

10.00–11.30 extramural sessions
11.30–12.00 coffee break and poster presentations
12.00–14.00 thematic sessions
14.00–15.00 lunch
15.00–16.00 closing of the conference
16.00–18.00 departure for Petrozavodsk

Time limits

The duration of plenary talks is up to 20 min., at thematic sessions – up to 15 min., roundtable presentations – up to 10 min.

Poster presentations will be made during coffee break on July 5 from 15.00 to 15.30, and on July 7 from 11.30 to 12.00.

JULY 4

PLENARY SESSION

KarRC RAS Conference Hall, (11 Pushkinskaya St.)

10.00 – 14.30

Chairs: *Druzhinin P.V., Safonov P.I.*

Secretary: *Molchanova E.V.*

Greetings to the conference:

RSEE President, DSc

Pavel Druzhinin

Deputy Prime Minister of the Republic of Karelia, DSc

Yuri Saveliev

Member of RSEE Regional Council, professor at St. Cloud State University, USA

Paul Safonov

President ad interim, Karelian Research Centre RAS, RAS Corr. Fellow, DSc

Olga Bakhmet

Director ad interim, Institute of Economics, Karelian Research Centre RAS, DSc

Tatyana Morozova

PLENARY TALKS:

Paul Safonov (Dr., St. Cloud State University, Minnesota, USA) 40 years in ecological economics: RSEE first president, professor **Vladimir Gurman**

Pavel Druzhinin (DSc, Institute of Economics KarRC RAS, Petrozavodsk), *Galina Shkiperova* (PhD, Institute of Economics KarRC RAS, Petrozavodsk), *Olga Potasheva* (PhD, Institute of Economics KarRC RAS, Petrozavodsk) Estimation of the effect of economic development on the environment of Russian regions

Galina Mekush (DSc, Kemerovo State University, Kemerovo) The economy of coal-mining regions of Russia in the context of the Paris agreement

Irina Khovavko (DSc, Moscow State University, Moscow) Ecological conflicts in the Russian Federation: causes and consequences

Ivan Kiprukhin (Head, Department of State Environmental Expert Review and Protected Areas, Republic of Karelia Ministry of Nature Management and Environment, Petrozavodsk), *Anna Volkova* (PhD, Petrozavodsk State University, Petrozavodsk) Protected areas as an essential instrument of nature conservation and economic development of a region

12.00–12.30 Coffee break, tour of the Karelian birch exhibition (KarRC RAS Library lobby, 5th floor)

Anatoly Shevchuk (DSc, Prof., Council for the Study of Productive Forces under Russian Foreign Trade Academy under the Ministry of Economic Development of Russia, Moscow), *Giorgi Shikhashvili* (DSc, Prof., Tbilisi State University, Tbilisi) Assessment and remediation of environmental damage in the Arctic

Ivan Potravny (DSc, Prof., Plekhanov Russian University of Economics, Moscow), *Andrey Gusev* (DSc, Prof., Sochi Science Centre RAS, Sochi) Integrating the environment into the economy: an analysis of German experience

Nadezhda Pakhomova (DSc., Prof., St. Petersburg State University, St. Petersburg), *Grigory Malyshev* (PhD, St. Petersburg Mining University, St. Petersburg) Environmental innovations as a driver of the 4th industrial revolution: tasks for state policy

Leonid Korytny (DSc, Prof., Sochava Institute of Geography, Siberian Branch RAS, Irkutsk) Bottlenecks in authorities-business-society interactions in dealing with ecological economics problems in the Baikal region

Taisia Bardakhanova (DSc, Baikal Institute of Nature Management, Siberian Branch RAS, Ulan-Ude) Major pathways for capitalization of the “Baikal natural territory”

14.30–16.00 Lunch

16.00 – 18.00

ROUNDTABLE SESSION

The environment, nature management and new economy of Karelia
Meeting Room of the Institute of Economics KarRC RAS (50 Al. Nevsky St.)

Chairs: *Druzhinin P.V., Zamyatina M.F.*
Secretary: *Shkiperova G.T.*

Pavel Druzhinin (DSc, Institute of Economics KarRC RAS, Petrozavodsk) The economy of northern regions – extraction and processing of natural resources, and innovations
Oleg Kuznetsov (DSc, Institute of Biology KarRC RAS, Petrozavodsk) Ecological situation in the Republic of Karelia
Galina Shkiperova (PhD, Institute of Economics KarRC RAS, Petrozavodsk) Nature conservation funding at the time of economic crisis (the case of the Republic of Karelia)
Dmitry Rybakov (PhD, Institute of Geology, KarRC RAS, Petrozavodsk) Systematization of ecological risk factors in the Republic of Karelia

Representatives from Republic of Karelia (RK) Government, RK Legislative Assembly, relevant ministries and departments, Russian Nature Inspectorate, Karelian Research Centre and its institutes, Petrozavodsk State University, organizations from other regions, NGOs

16.00 – 18.00

ROUNDTABLE SESSION

Can the Russian Economic Security Strategy be implemented without compromising the Russian Environmental Security Strategy?

Meeting Room of the Institute of Biology KarRC RAS (50 Al. Nevsky St.)

Chair: *Shevchuk A.V.*
Secretary: *Tishkov S.V.*

18.30– 19.30 STANDING BUFFET

JULY 5

PLENARY SESSION

KarRC RAS Conference Hall (11 Pushkinskaya St.)

10.00 – 12.00

Chairs: *Mekush G.E., Zander E.V.*
Secretary: *Prokop'ev E.A.*

Elena Ryumina (DSc, Prof., Institute of Socio-Economic Studies of Population RAS, Moscow)
A statistical analysis of the topics and characteristics of ecological economics studies in Russia

Paul Safonov (Dr., St. Cloud State University, Minnesota, USA), **Jianxun Li**; (Dr., Xi'an University of Technology, China) Water Pollution and Flood Impact Simulation using 3S Software: Application to case studies in China

Irina Glazyrina (DSc, Prof., Institute of Natural Resources, Ecology and Cryology, Siberian Branch RAS, Chita), **Larissa Faleychik** (PhD, Institute of Natural Resources, Ecology and Cryology, Siberian Branch RAS, Chita) Transaction costs in the management of natural resources

Tatjana Tambovceva (DSc, Prof., Riga Technical University, Riga, Latvia) Development of circular economy in Latvia

Pavel Kasyanov (DSc, FRECOM, Moscow) On the development of intermediate and final environmental targets, programmes and plans of nature conservation actions within the natural resources management system of the regional and sectoral level

**12.00–12.30 Coffee break,
tour of the Karelian birch exhibition**
(KarRC RAS Library lobby, 5th floor)

12.30 – 18.00

Session 1. Environmental policy and enhancement of the economic mechanisms for natural resource management

Meeting Room of the Institute of Linguistics, Literature and History KarRC RAS (11 Pushkinskaya St.)

Chairs: *Pakhomova N.V., Korytny L.M.*

Secretary: *Shkiperova G.T.*

Vladimir Masloboev (DSc, INIEP KSC RAS, Apatity), **Elena Klyuchnikova** (PhD, INIEP KSC RAS, Apatity), **Vladimir Kotelnikov** (KSC RAS, Apatity) On the development of the national public standard “Environmental security in the Arctic”

Oleg Tolstoguzov (DSc, Institute of Economics KarRC RAS, Petrozavodsk) Integration under the changing geopolitical settings: OCE type standard and the national security context

Vladimir Sturman (DSc, Prof., SPb SUT, St. Petersburg), **Alexey Kashin** (PhD, USU, Izhevsk) The problem of territorial correctness of ecological-economics information

Soffja Solovyova (PhD, Moscow State University, Moscow) The Northwestern region of Russia: sustainable development criteria and indicators

Artyom Fedotov (PhD, Institute of Socio-Economic Studies of Population RAS, Moscow)

Sustainable development in the framework of the UNDP human development concept

Oksana Novosyolova (PhD, TIU, Tyumen) Economic tools for urban ecological security and environmental protection

14.00–15.00 Lunch

Viktor Efimov (DSc, Prof., NUST MISIS, Moscow), **Sergey Popov** (DSc, Prof., NUST MISIS, Moscow), **Pavel Fedyaev** (deputy of the 7th State Duma, Moscow), **Natalia Efimova** (PhD, MGIMO, Moscow) Methodological principles of establishing territorial boundaries of the competitive capacity of products based on mining wastes

Anton Pyzhev (PhD, Siberian Federal University, Krasnoyarsk), **Roman Gordeyev** (Siberian Federal University, Krasnoyarsk) The competitive capacity of Russia’s forest industry complexes: the regional aspect

Moritz Albrecht, Maxim Trishkin (University of Eastern Finland, Department of Geographical and Historical Studies) Bioenergy policies: a tool for regional development and source of local conflicts

Elena Klyuchnikova (PhD, INIEP KSC RAS, Apatity), **Vladimir Masloboev** (DSc, INIEP KSC RAS, Apatity) The effect of global sustainable development initiatives on the life of local communities and environmental security in the Arctic

Nikolai Filatov (RAS Corr. Fellow, DSc, Northern Water Problems Institute KarRC RAS, Petrozavodsk), **Alexander Litvinenko** (Northern Water Problems Institute KarRC RAS,

Petrozavodsk) Water bodies and water resources as a factor for the development of regions under the changing socio-economic and climatic conditions
Adriana de Lima Bocaiuva (Instituto de Economica – UFRJ, Rio de Janeiro) Rio de Janeiro's charge system for bulk water use and the human right to water

16.30–17.00 Coffee break

Sergey Andryushchenko (DSc, Prof., IAP RAS, Saratov) The strategy for ecologization of the agrifood sector: experiences from the European Union
Alla Pakina (PhD, Moscow State University, Moscow) A region's ecological framework as a factor for efficient and effective nature conservation activities
Pyotr Kokovin (PhD, USTEU, Yekaterinburg), **Yury Lebedev** (DSc, Prof., Ural State Mining University, Yekaterinburg) Improvement of the methodology of sustainable land use in intensively developed territories
Varduhi Margaryan (PhD, Yerevan State University, Yerevan, Armenia) Priority tasks in the use and protection of surface waters; economic mechanisms for fulfilling the tasks in the Masrik catchment ecosystem
Alexander Volkov (Institute of Economics KarRC RAS, Petrozavodsk) Sustainable development concept and current problems of forestry
Mikhail Sukharev (PhD, Institute of Economics KarRC RAS, Petrozavodsk) Modern technologies of ecological monitoring

16.30 – 17.00

POSTER SESSION

12.30 – 18.00

Session 2. Simulation of processes in ecological economic systems

Meeting Room of the Institute of Applied Mathematical Research KarRC RAS (11 Pushkinskaya St.)

Chairs: *Ryumina E.V., Safonov P.I.*

Secretary: *Moroshkin M.V.*

Evgenia Zander (DSc, Prof., Siberian Federal University, Krasnoyarsk) An integrated sustainability assessment of the development of regional social-ecological-economic systems
Knut Kurt Richter (DSc, St. Petersburg State University, St. Petersburg), **Maria Vetrova** (PhD Student, St. Petersburg State University, St. Petersburg) Operational decision-making during transition to circular economy principles in Russian industries
Anna Rettieva (DSc, Institute of Applied Mathematical Research KarRC RAS, Petrozavodsk) Ecological economic systems with asymmetric participants
Nina Plyaskina (DSc, Prof., IEIE SB RAS, Novosibirsk), **Nikolai Moshkin** (DSc, Novosibirsk State University, Novosibirsk), **Elena Grechina** (MSc student, Novosibirsk State University, Novosibirsk) Toolkit for evaluating the ecological performance of energy-saving projects
Zinaida Eryomko (Engineer, Baikal Institute of Nature Management, Siberian Branch RAS, Ulan-Ude), **Taisia Bardakhanova** (DSc, Baikal Institute of Nature Management, Siberian Branch RAS, Ulan-Ude) Quantitative assessment of the criteria for the selection of environmentally minded investment projects

Olga Tuzhikova (Learning and Business Centre “Standart”, Petrozavodsk) Simulation of an integral indicator for the sustainability assessment of regional development and the experience of its application

14.00 – 15.00 Lunch

Vladimir Konovalov (PhD, Ural State Mining University, Yekaterinburg), *Margarita Kolchina* (PhD, Ural State Mining University, Yekaterinburg) Sustainable development models for mining cities and towns in the Ural region

Valentin Krasnoshchyokov (DSc, Prof., “Raduga” Research Institute, Kolomna), *Denis Olgarenko* (PhD, “Raduga” Research Institute, Kolomna) Upgrade of land reclamation systems as a factor for sustainable development of agriculture in Russia

Natalja Dovgot’ko (PhD, SSAU, Stavropol) Challenges of building and developing the ‘green’ economy in recreational regions of Russia

Lyudmila Leonova (PhD, Higher School of Economics, Nizhny Novgorod), *Valeria Lakshina* (PhD Student, Higher School of Economics, Nizhny Novgorod), *Anna Aladyshkina* (PhD, Higher School of Economics, Nizhny Novgorod) A methodology for assessment of the socio-economic situation in the contact zone of a biosphere reserve: the case of the Nizhny Novgorod Region

Valeria Lakshina (PhD Student, Higher School of Economics, Nizhny Novgorod), *Evgenia Danilova* (Student, Higher School of Economics, Nizhny Novgorod) Ecological aspects of the dynamics of demographic parameters in regions of Russia

Zoya Kibisova (PhD Student, Institute of Economics KarRC RAS, Petrozavodsk), *Marina Kruchek* (PhD, Petrozavodsk State University, Petrozavodsk), *Ekaterina Molchanova* (DSc, Institute of Economics KarRC RAS, Petrozavodsk) An integrated information system for the assessment of regional demographic processes

16.30 – 17.00 Coffee break

Dmitry Dvinin (PhD, Chelyabinsk State University, Chelyabinsk) Identifying human impact through the material intensity level of the electric power sector of the Russian economy

Ekaterina Kozlova (MSc, INRTU, Irkutsk), *Aleksey Chemezov* (PhD, ESI SB RAS, Irkutsk) A methodological approach to assessing the effectiveness of the actions for reducing greenhouse gas emissions from Russian electric power industry

16.30 – 17.00

POSTER SESSION

12.30 – 18.00

Session 3. Ecological economic development problems of regions and sectors of the national economy

KarRC RAS Library Conference Room (11 Pushkinskaya St.)

Chairs: *Glazyrina I.P.*, *Shevchuk A.V.*

Secretary: *Tishkov S.V.*

Anatoly Shevchuk (DSc, Vice Chairman of the Council for the Study of Productive Forces under Russian Foreign Trade Academy under the Ministry of Economic Development of

- Russia, Prof. at RANEPA, Moscow) The issues of establishing the industrial and domestic waste recycling industry
- Margarita Zamyatina** (DSc, Prof., IREP RAS, St. Petersburg) The ecological component of regional socio-economic development strategies
- Tatyana Skufyina** (DSc, Prof., LIES RAS, Apatity) The challenges of development and management of the Russian Arctic zone
- Galina Knyazeva** (DSc, Syktyvkar State University, Syktyvkar), **Nina Kirusheva** (Expert, Center for Sustainable Development in the North of the Syktyvkar State University, Syktyvkar) International experience of promoting the environment-friendliness of the coal-mining industry
- Yury Kazantsev** (Head of Laboratory, V.I. Shpilman Research and Analytical Centre for the Rational Use of the Subsoil, Tyumen), **Lyudmila Kazantseva** (V.I. Shpilman Research and Analytical Centre for the Rational Use of the Subsoil, Tyumen) The ecological economic problems of the accident rate on pipelines in the Khanty-Mansi Autonomous District – Yugra
- Olga Krivoshapkina** (Dept. Head, JSC “Almazny Anabara”, Yakutsk) Analysis of the environmental impact of production processes in diamond placer mining

14.00 – 15.00 Lunch

- Andrey Gromtsev** (DSc, Forest Research Institute KarRC RAS, Petrozavodsk) Landscape-based zoning of boreal regions by ecological and bioresource parameters and land use priorities
- Galina Kozyreva** (DSc, Institute of Economics KarRC RAS, Petrozavodsk) Forest certification as an institution enabling interactions between authorities, business and society in dealing with the economic problems of forest-resource territories
- Irina Zabelina** (PhD, Institute of Natural Resources, Ecology and Cryology, Siberian Branch RAS, Chita), **Ekaterina Klevakina** (PhD, Institute of Natural Resources, Ecology and Cryology, Siberian Branch RAS, Chita) Analysis of the effectiveness of nature conservation mechanisms in regions of cross-border contacts with China
- Maria Bitarova** (Director, Kuban State University Science Park, Krasnodar) Prospects of nature tourism development in the Arkhangelsk Region
- Ksenia Yakovleva** (Senior Lecturer, Transbaikal State University, Chita) Performance of the national forest sector
- Egor Prokop'ev** (PhD, Institute of Economics KarRC RAS, Petrozavodsk), **Natalia Roslyakova** (V.A. Trapeznikov Institute of Control Sciences RAS, Moscow), **Pavel Ryazantsev** (PhD, KarRC RAS Secretary for Science, Petrozavodsk) Global climate change effects on seasonal transport infrastructure in the Republic of Karelia: problem statement

16.30 – 17.00 Coffee break

- Maria Tereshina** (DSc, Kuban State University, Krasnodar) Interactions between sectors in implementation of educational programmes for sustainable regional development
- Ekaterina Molchanova** (DSc, Institute of Economics KarRC RAS, Petrozavodsk), **Mark Burkin** (DSc, Prof., Petrozavodsk State University, Petrozavodsk) Specific medical-demographic features of northern territories development (the case of Russian Karelia and Finland)
- Nadezhda Polevshchikova** (PhD, Petrozavodsk State University, Petrozavodsk) Ecological-economic problems of the development of forest villages in the North
- Nadezhda Nikolaeva** (PhD, Forest Research Institute KarRC RAS, Petrozavodsk), **Vitaly Vorobyov** (Forest Research Institute KarRC RAS, Petrozavodsk) Management efficiency for a Karelian birch genetic reserve

16.30 – 17.00

POSTER SESSION

18.00 – 19.30 CITY TOUR

JULY 6

10.00 – 18.00 EXCURSIONS TO NATURE CONSERVATION AREAS

JULY 7

10.00 – 14.00

Session 4.1 “Green” economy and aspects of ecological-economic assessment

Urozero Education and Recreation Centre, main hall

Chairs: *Potravny I.M., Gusev A.A.*

Secretary: *Moroshkina M.V.*

Ivan Potravny (DSc, Prof., Plekhanov Russian University of Economics, Moscow), *Anna Vega* (PhD, Plekhanov Russian University of Economics, Moscow) On keeping the state register of cumulative environmental damage in natural resource management

Galina Knyazeva (DSc, Syktyvkar State University, Syktyvkar), *Ekaterina Knyazeva* (PhD, Syktyvkar State University, Syktyvkar) Procedural toolkit for environment damage assessment in the Arctic zone, the Town of Vorkuta

Maria Tereshina (DSc, Kuban State University, Krasnodar), *Anastasia Voronina* (MSc Student, Kuban State University, Krasnodar) Theoretical and methodological substantiation of an integral assessment of the potential of local communities in ‘green’ economy development

Olga Cherednichenko (PhD, Stavropol State Agrarian University, Stavropol) ‘Green’ economy is the foundation for the transition of Russia’s agrarian sector to the environmentally sustainable development model

Violetta Gassiy (DSc, Kuban State University, Krasnodar) ‘Green’ development of waterside territories in Russia in the context of developments in the Arctic

11.30–12.00 Coffee break

Ksenia Krutikova (PhD, RSRIIUPWR, Yekaterinburg) Monetary valuation of water resources – trending applications until 2019

Elena Morozova (Researcher, RSRIIUPWR, Yekaterinburg), *Ksenia Krutikova* (PhD, RSRIIUPWR, Yekaterinburg), *Yulia Merzlikina* (PhD, RSRIIUPWR, Yekaterinburg) On the methodology of monetary valuation of water resources for water management purposes

Anna Antonova (Senior Lecturer, Kemerovo State University, Kemerovo) A procedural approach to assessment of potable water availability at the regional level

Inessa Popova (PhD Student, Plekhanov Russian University of Economics, Moscow) Project-based approach to clean-up of cumulative environmental damage in the Arctic zone

Marina Moroshkina (PhD, Institute of Economic KarRC RAS, Petrozavodsk) Assessment of natural resource use in borderlands (the case of Russia and Finland)

Natalia Maltseva (Deputy Head, Kuban Catchment Management Authority, Krasnodar), *Ivan Potravny* (DSc, Prof., Plekhanov Russian University of Economics, Moscow) Conflict management in the development of recreation areas on the Black Sea Azov coast

14.00 – 15.00 Lunch

10.00 – 14.00

Session 4.2 “Green” economy and issues of resource- and energy saving

Urozero Education and Recreation Centre, small meeting room

Chairs: *Belik I.S., Khovavko I.Yu.*

Secretary: *Tishkov S.V.*

Irina Belik (DSc, Ural Federal University, Yekaterinburg), *Alyona Yachmeneva* (PhD Student, Ural Federal University, Yekaterinburg) Tools for assessment of the development of low-carbon economy: the regional aspect

Olga Kudryavtseva (DSc, Moscow State University, Moscow), *Olga Malikova* (DSc, Prof., Moscow State University, Moscow) Resource saving and alternative energy development during transition to green economic growth

Vyacheslav Zhigalov (PhD, St. Petersburg State University, St. Petersburg) Energy intensity and carbon intensity of the economy as strategic indicators of the development of Russian regions

Irina Zabelina (PhD, Institute of Natural Resources, Ecology and Cryology, Siberian Branch RAS, Chita), *Ksenia Yakovleva* (Senior Lecturer, Transbaikal State University, Chita), *Ekaterina Klevakina* (PhD, Institute of Natural Resources, Ecology and Cryology, Siberian Branch RAS, Chita), Potential for solar energy use by households

Roman Fesenko (PhD, IREP RAS, St. Petersburg) Resource- and energy saving as a prerequisite for sustainable production and consumption

11.30 – 12.00 Coffee break

Vassily Stoykov (PhD, NRU MGSU, Moscow), *Anna Brylkina* (Assistant, Plekhanov Russian University of Economics, Moscow) Relations between construction activities and greenhouse gas emissions based on resource and energy life cycle model

Ekaterina Kozlova (MSc, INRTU, Irkutsk), *Aleksey Chemezov* (PhD, ESI SB RAS, Irkutsk) Forecast of greenhouse gas emissions from the Irkutsk Region, and assessment of major mitigation pathways

Tatyana Stepanova (PhD Student, Kemerovo State University, Kemerovo) Energy efficiency assessment for an economy (the case of Kemerovo Region municipalities)

Sergey Tishkov (PhD, Institute of Economics KarRC RAS, Petrozavodsk), *Valentina Karginova* (PhD, Institute of Economics KarRC RAS, Petrozavodsk), *Anton Shcherbak* (PhD, Institute of Economics KarRC RAS, Petrozavodsk) Study of the fish industry effect on the environmental security of a region

11.30 – 12.00

POSTER SESSION

14.00 – 15.00 Lunch

15.00 – 16.00

CLOSING OF THE CONFERENCE

Urozero Education and Recreation Centre, main hall

Chairs: *Druzhinin P.V., Safonov P.I.*

Secretary: *Potasheva O.V.*

Presentations by leaders of thematic sessions, general discussion, adopting the conference resolution, RSEE technical meeting.

16.00 – 18.00 Departure for Petrozavodsk