PROGRAM

of the 5th International young scientists conference

“Water Resources: Research and Management”

Limnological school and workshop

Petrozavodsk, September 5-8, 2016
ORGANIZING COMMITTEE

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Nikolay Filatov, Northern Water Problems Institute KarRC RAS

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Lidia Belicheva, Northern Water Problems Institute KarRC RAS

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Igor Baryshev, Institute of Biology KarRC RAS
Anastasia Stepanova, Russian State Hydrometeorological University
The 5th International young scientists conference “Water Resources: Research and Management” (Limnological school and workshop) is financially supported by Russian Foundation for Basic Research (16-35-10327), Russian Science Foundation (№ 14-17-00766, № 14-17-00740), Federal Agency for Scientific Organizations and Earth of Science Branch of Russian Academy of Sciences

Monday, September 5

Registration: 10:00-11:10 (Main building, Karelian Research Centre of RAS, Pushkinskaya st., 11)

Conference Opening (Main Hall):

Subetto Dmitry (Director of Northern Water Problems Institute KarRC RAS)

Nikolay Filatov (Chairman of the Karelian branch of the Russian Geographical Society)

Session 1. Geography and hydrophysics (Main Hall)

Chairman: Galina Zdorovenova

Keynote speakers:
11.30-12.00 – Naumenko M. A., Institute of Limnology RAS: MODERN ISSUES OF LARGE LAKES THERMAL PROCESSES STUDIES

12.00-12.30 – Sobisevich A.V., Institute of the History of Science and Technology of RAS: BIOGRAPHY OF SERGEY V. GRIGORIEV AND HIS CONTRIBUTION TO KARELIAN HYDROLOGY

Oral session:
12.30-12.45 – Antonova R.F., Shchekoldina I.V. STUDY OF WATER BODIES AS PART OF TRAINING BACHELORS MAJORING IN GEOGRAPHY (TEACHER EDUCATION)
12.45-13.00 – Ignatov E.I., Zemlianov I.V., Sanin A.Yu., Tersky P.N. MORPHOLOGY, DYNAMICS AND PROTECTION OF LAKE ONEGO WATERSIDES

13.00-14.30 – Lunch

14.30-14.45 – Ignatov E.I., Zemlianov I.V., Sanin A.Yu., Borshchenko E.V., Tersky P.N. MATHEMATICAL MODELING METHOD TO STUDY ONEGO LAKE WATERSIDES DYNAMICS AND DEVELOPMENT
14.45-15.00 – Zharkov R.V., Kozlov D.N. THERMAL FIELDS CRATER LAKES OF THE KURIL ISLANDS
15.00-15.15 – Perchin D.K., Birykov R.Yu. PROVIDING THE BASIS FOR THE CONSTRUCTION OF A CARTOGRAPHIC MODEL FOR DISTRIBUTION OF MAXIMUM SNOW WATER EQUIVALENT IN THE KASMALA RIVER BASIN (ALTAI KRAI)
Session 2. Hydrobiology (Library Hall)

Chairman: Igor Baryshev

Keynote speakers:
11.30-12.00 – Vlasov B.P., Belarusian State University: **NATURAL RESOURCES OF LAKES IN BELARUS**

12.00-12.30 – Berezina N.A., Zoological Institute of RAS: **TOPICAL RESEARCH QUESTIONS FOR AQUATIC ECOSYSTEMS UNDER CLIMATE CHANGE AND HUMAN IMPACTS**

Oral session:
12.30-12.45 – Baryshev I.A., **A SAPROBIC INDEX FOR WATER QUALITY ASSESSMENT ACCORDING TO MACROZOOBENTHOS OF RIVERS FLOWING INTO LAKE ONEGO AND LAKE LADOGA**

12.45-13.00 – Bazhora A.I., Belyakov V.P., **APPLYING MACROZOOBENTHOS CHARACTERISTICS FOR INDICATION OF ANTHROPOGENIC IMPACT ON DIFFERENT SAINT-PETERSBURG WATER BODIES**

13.00-14.30 – Lunch

14.30-14.45 – Zuyev Y.A., Zuyeva N.V., Lapenkov A.E., **MACROZOOBENTHOS OF LADOGA BAYS OF VALAAM ARCHIPELAGO**

14.45-15.00 – Dudakova D.S., Mykhin I.A., Stanyslavskaya E.V., Kapustina L.L., Slykovsky Z.I., Dudakov M.O., **IMPACT OF ROCK TYPE AND ITS STRUCTURAL COMPLEXITY ON PERYPHYPIC COMMUNITIES**
15.00-15.15 – Savosin E.S. STREAMFLOW INFLUENCE ON THE STRUCTURE OF MACROZOOBENTHOS IN TARASMOZERO LAKE


15.45-16.05 – Coffee Break

16.05-16.20 – Sidorova A.I. THE ROLE OF BAikalIAN AMPHIPOD GMELINOIDES FASCIATUS IN LITTORAL MACROZOOBENTHOS COMMUNITIES OF LAKE ONEGO

16.20-16.35 – Matvienko E.Y., Kaygorodova I.A. SPECIES DIVERSIFICATION OF BAikal ENDEMIC LEECHES OF FAMILY PISCICOLIDAE

Мастер-классы

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<td>18.00 – Elena Kuznetsova: POSSIBILITIES OF KARELIA REPUBLIC TERRITORY USAGE FOR EDUCATIONAL TOURISM</td>
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Tuesday, September 6

Session 3. Hydrology and modeling (IAMR Hall)

Chairman: Aleksey Tolstikov

Keynote speaker:
9.30-10.00 – Aysel G.V., Institute of Water Problems of RAS: HYDROLOGICAL MODELING: STILL SCIENCE OR ALREADY COMPUTATIONAL ENGINEERING?

Oral session:
10.00-10.15 – Tsydenov B.O. A NUMERICAL MODEL FOR INVESTIGATION OF WATER QUALITY IN A LARGE LAKE
10.15-10.30 – Berezina O.A., Dvinshikh S.A., Maximovich N.G., Pankov N.N. PROBLEMS OF WATER RESOURCE MANAGEMENT IN THE CASE STUDY OF THE NYTVA RESERVOIR
10.30-10.45 – Aysel G.V. MODELLING OF RUSSIAN ARCTIC RIVERS RUNOFF UNDER UNSUFFICIENT INFORMATION CONDITIONS
10.45-11.00 – Shadrina A.A. FEATURES OF THERMAL REGIME OF A THERMOKARST LAKE

11.00-11.20 – Coffee Break

11.35-11.50 – Manilyuk Yu.V., Cherkesov L.V. SEICHES AND SEICHELIKE OSCILLATIONS IN LAKE LADOGA
11.50-12.05 – Dymova O.A. SIMULATION OF THE SUBMESOSCALE DYNAMICAL PROCESSES IN THE BLACK SEA COASTAL ZONES
12.05-12.20 – Doganovsky A. M., Davydenko E.V. FEATURES OF WATER LEVEL OF LARGE EUROPEAN LAKES WITH LOW FLOW VELOCITIES UNDER CLIMATE CHANGE
12.20-12.35 – Zyryanov V.N., Chebanova M.K. TIDAL WAVES IN ESTUARIES

12.35-14.00 – Lunch

14.00-14.15 – Tolstikov A.V., Chernov I.A. MODELLING OF THE PELAGIC ECOSYSTEM OF THE WHITE SEA
14.15-14.30 – Lazzari P., Solidoro C., Salon S., Bolzon G. MODELING THE MARINE NUTRIENT LIMITATION WITH A MEDIUM COMPLEXITY BIOGEOCHEMICAL MODEL
14.30-14.45 – Enne A.I. MODELLING THE SEA ECOSYSTEM USING THE BFM STANDALONE MODEL
14.45-15.00 – Bulavina A.S. HYDROLOGICAL REGIME OF THE WESTERN WHITE SEA BASIN LAKE-RIVER SYSTEMS
15.00-15.15 – Petryahina E.V. ANTHROPOGENIC EUTROPHICATION AT THE KUJBYSHEV RESERVOIR UNDER THE INFLUENCE OF THE VARIABILITY OF HYDROLOGICAL CONDITIONS

15.15-15.35 – brief tour of computer cluster of KarRC RAS
Session 4. Paleolimnology. Bottom sediments (IG Hall)

Chairman: Maksim Potakhin

Keynote speakers:
9.30-10.00 – Subetto D.A., Northern Water Problems Institute of KRC RAS: LAKES AND PALEOLIMNOLOGICAL RECONSTRUCTIONS


10.30-11.00 – Filimonova L.V., Institute of Biology of KarRC RAS: PALEOGEOGRAPHIC STUDIES OF LAKE ONEGO AND ITS DRAINAGE BASIN USING A SET OF METHODS (Filimonova L.V., Lavrova N.B.)

11.00-11.20 – Coffee Break

Oral session:
11.20-11.35 – Gorlach A., Hang T., Kalm V. PALEORECONSTRUCTION OF LATE WEICHELIAN PROGLACIAL LAKES IN NORTHWESTERN RUSSIA AND NORTHERN BELARUS
11.50-12.05 – Gurbich V.A., Subetto D.A., Potakhin M.S. PALEOGEOGRAPHIC DATA BASE PALEONEGO DEVELOPMENT
12.05-12.20 – Razumovsky V.L., Razumovsky V.L. ASSESSMENT OF LONG-TERM PH CHANGE IN CAUCASUS LAKES USING BIOINDICATION METHOD (DIATOM ANALYSIS)
12.20-12.35 – Ryazantsev P.A., Rodionov A.I., Slukovskii Z.I. GROUND PENETRATING RADAR SURVEY OF KARELIAN SMALL LAKES SEDIMENTS
12.35-14.00 – Lunch
15.00-15.15 – Damjanovic D., Khachatryan A, Aleshin M. NEW DATA ON THE STRUCTURE OF THE QUATERNARY COVER OF LAKE LADOGA AS RESULT OF MULTI-CHANNEL SEISMIC PROFILING CONDUCTED IN THE COOPERATION NWPI KARRC RAS

15.15-15.35 – Rosentau A., Tartu University: GIS-BASED PALEOGEOGRAPHIC RECONSTRUCTIONS OF MARINE AND LAKE BASINS

Session 2. Hydrobiology (Library Hall)

Chairman: Andrey Georgiev

Keynote speaker:
9.30-10.00 – Komulainen S.F., Institute of Biology of KarRC RAS: ECOLOGICAL ASSEMBLAGE OF ALGAE IN RIVERS: CLASSIFICATION AND BIOTOPIC DIVERSITY

Oral session:
10.00-10.15 – Zubova E.M., Kashulin N.A., Terentjév P.M. ON THE METHOD OF GROWTH RATE CALCULATION FOR WHITEFISH COREGONUS LAVARETUS (L.) INHABITING IMANDRA LAKE

10.15-10.30 – Legun A.G., Tyrkin I.A. FEEDING HABITS OF JUVENILE BROWN TROUT SALMO TRUTTA L. IN THE RIVERS OF ONEGO LAKE IN AUTUMN

10.30-10.45 – Lesonen M.A., Tyrkin I.A. THE DIET OF PERCH (PERCA FLUVIATILIS L.) AND COMMON WHITEFISH (COREGONUS LAVARETUS L.) INHABITING THE RIVER OLANGA (NP "PAANAJÄRVI")

10.45-11.00 – Lobanova A.S., Sidorova A.I. THE ROLE OF MACROZOOBENTHOS AS PERCH FOOD IN THE LITTORAL ZONE OF LAKE ONEGO

11.00-11.20 – Coffee Break


11.35-11.50 – Vasil’eva O.B., Nazarova M.A., Nemova N.N. EFFECT OF KOSTOMUKSHA ORE DRESSING MILL ON THE PROCESSES OF LIPID PEROXIDATION IN THE TISSUES OF ROACH RUTILUS RUTILUS (LINNAEUS, 1758)

11.50-12.05 – Belicheva L.A., Tyrkin I.A. PRESENT STATE OF SALMONIDS INHABITING LAKE ONEGO URBAN TRIBUTARIES

12.05-12.20 – Makarova E.M., Tekanova E.V. SEASONAL DYNAMICS OF MICROBIOLOGICAL PARAMETERS IN PETROZAVODSK RIVERS

12.20-12.35 – Fomina Yu.Yu., Syarli M.T. ZOOPLANKTON OF PETROZAVODSK BAY OF ONEGO LAKE IN WINTER
12.35-14.00 – Lunch

14.00-14.15 – Zuyeva N.V., Zuyev Y.A., Shevtsova Y.A. MACROPHYTES OF LADOGA BAYS OF VALAAM ARCHIPELAGO
14.30-14.45 – Sileenkova E.A., Triphonova I.S. PHYTOPLANKTON BIOMASS DYNAMICS ALONG THE RIVER VELIKAYA COURSE AS AN INDEX OF ITS ECOLOGICAL STATE
14.45-15.00 – Michailova K.B., Sudnicina D.N. CRYPTOGAMOUS MACROPHYTES OF LAKE PEIPSI
15.00-15.15 – Zuyeva N.V. USE OF MACROPHYTES IN ASSESSMENT OF ECOLOGICAL STATUS OF SMALL RIVERS

15.40-16.00 – Coffee Break

16.10 – Poster session (Main Hall)

18.30 – Cocktail dinner
Wednesday, September 7

Session 5. Hydrochemistry (ILLH Hall)

Chairman: Michail Zobkov

Keynote speaker:
9.30-10.00 – Venitsianov E.V., Water Problems Institute of RAS: CURRENT WATER QUALITY ISSUES

Oral session:
10.00-10.15 – Zemlianov I.V., Strokov A.A., Milyutina I.Yu., Fatkhi M.O., Terskaya E.V. STUDY OF LAKE ONEGO SEDIMENTS AND WATER QUALITY
10.15-10.30 – Ksenofontova M.I. FEATURES OF HYDROCHEMICAL COMPOSITION OF THERMOKARST LAKES IN CENTRAL YAKUTIA
10.30-10.45 – Zobkova M.V. POSSIBILITIES OF CONTENT ESTIMATE OF AUTOCHTHONOUS AND ALLOCHTHONOUS ORGANIC MATTER IN NATURE WATER USING THEIR DISTINCTIVE FEATURES
10.45-11.00 – Chekmareva E.A. THE INFLUENCE OF ORGANIC AND NUTRIENT LOADING ON THE WATER QUALITY OF SMALL RIVERS (THE TRIBUTARIES OF THE IVANKOVO RESERVOIR AS THE EXAMPLE)

11.00-11.20 – Coffee Break

11.20-11.35 – Moisseva N., Churlova T., Efimova T., Kryvenko O. ASSESSMENT OF CHLOROPHYLL A CONCENTRATION IN THE BLACK SEA BASED ON FLUORESCENCE
11.35-11.50 – Urusova E.S., Shelutko V.A., Zhigalo A.Yu. ISSUES OF USING METHODIC OF INTEGRATING HYDROCHEMICAL DATA FEATURES FOR ESTIMATION OF RIVER POLLUTION
11.50-12.05 – Grechushnikova M.G., Badukov D.D., Savvichev A.S., Kazancev V.S. SEASONAL CHANGES OF METHANE CONCENTRATION IN THE MOZHAISK RESERVOIR
12.05-12.20 – Labuzova O.M., Noskova T.V., Lysenko M.S., Illina E.G., Papina T.S. QUANTITATIVE EVALUATION OF PETROLEUM PRODUCTS INFLOW FROM URBAN AREAS INTO THE NATURAL WATERWAYS
12.20-12.35 – Kustova O.V., Gorshkov A.G. ASSESSMENT OF CURRENT LEVEL OF PCBs IN LAKE BAikal

12.35-14.00 – Lunch
**Workshops**

**Library Hall**

14.00 – Tatjana Regerand: International cooperation experience – Lammi biological station (winter limnology course)

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**Library Hall**

15.10 – Arkadyi Terzhevik: APPLYING FOR THE RFBR PROJECT

16.00 – Nadezhda Nikolaeva: COLLECTION OF ABNORMAL WOOD OF LABORATORY FOR PHYSIOLOGY AND CYTOLOGY OF WOODY PLANTS

**IG Hall**

17.00 – Oleg Lavrov: MUSEUM OF PRECAMBRIAN ECOLOGY

Visit-center (Karelia Tourist portal, Titov st., 3)

20.00 – Elena Kuznetsova: POSSIBILITIES OF KARELIA REPUBLIC TERRITORY USAGE FOR EDUCATIONAL TOURISM

**Thursday, September 8**

– Lake Onego (on “Ecolog” research vessel)


– Meteorological observing station
Poster session (main hall)

1. Pundure L., Stankevica K., Kalnina L. PALEOENVIRONMENTAL RECONSTRUCTION FROM LAKE SEDIMENTS OF PILCINE, LATVIA
2. Ayzel G.V., Izhhitskiy A.S. THE INVESTIGATION OF THE ARAL SEA LEVEL DYNAMICS BASED ON REMOTE SENSING AND CLIMATE REANALYSIS DATA
3. Ananjeva A.V., Abramova E.N., Shakurova N.V. STRUCTURE OF ZOOPLANKTON CENOSIS OF OXBOW LAKES ON SAMOILOVKY ISLAND (SOUTHERN PART OF DELTA LENA RIVER, SAKHA-YAKUTIA)
4. Arakelyants A.D. SPECIFICS OF THE HYDRODYNAMIC AND WATER QUALITY MODEL CE-QUAL W2
6. Bespalova K.V. CRITERIA FOR REGULATION OF ANTHROPOGENIC LOAD WITH REGARD TO THE NATURAL FEATURES OF WATER BODIES
7. Germanov I.V. THE INFLUENCE OF CLIMATE CHANGE TO MAXIMAL ICE-JAM STAGE OF RIVERS OF NORTHERN EUROPEAN PART OF RUSSIA
8. Grechushnikova M.G., Edelshtein K.K. ESTIMATION OF PROBABLE CHANGES OF SELENGA FLOW DUE TO HYDROPOWER CONSTRUCTION IN MONGOLIA
9. Grishantseva E.S., Bychkov A.U., Shyrupova S.A. RARE EARTH ELEMENTS IN THE AQUATIC PLANTS OF IVANKOVO RESERVOIR
10. Ditina V.E. ANTHROPOGENIC LOAD ON LAKE LADOGA ECOSYSTEM
11. Dovgaya S.V. MODELING OF PROCESSES IN THE SEA OF MARMARA
14. Kozyreva E.O., Shelutko V.A. ANALYSIS OF GENERALIZED RIVER WATER POLLUTION'S EXPONENTS BY THE EXAMPLE OF POLLUTION ESTIMATION OF THE VELIKAYA RIVER
15. Korneyeva K.O., Khoroshevskaya V.O. COMPARISON OF SEASONAL CONTENT OF BIOMETALS (VANADIUM, NICKEL) IN PROFILE ESTUARINES BOTTOM SEDIMENTS OF RIVERS DON, MIUS AND OF THE GULF OF TAGANROG
16. Kochergin V.S., Kochergin S.V. TRANSPORT MODEL OF PASSIVE ADMIXTURE FROM A POINT SOURCE IN THE AZOV SEA AT DIFFERENT WIND DIRECTIONS
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<td>Markova N.V.</td>
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36. Tsydenov B.O. **MODELLING OF PLANKTON BIOMASS DYNAMICS DURING SPRING HEATING OF A WATERBODY**


38. Shaban M.S., Stepanova A.B. **COMPARATIVE ANALYSIS OF THE INTERANNUAL PH VALUE VARIABILITY AND WATER TRANSPARENCY IN THE FOREST LAKELETS WITH SLUMPY WATER COLLECTION ON THE EASTERN SHORE OF VALAAM ISLAND**
Notes
Origin of the Conference Participants