

**Limnological Institute of the Siberian Branch of the
Russian Academy of Sciences**

Association of Lake Regions

Molchanov-Sibirsky Irkutsk Regional State Universal Scientific Library

SCIENTIFIC PROGRAMME

**INTERNATIONAL CONFERENCE
“FRESHWATER ECOSYSTEMS – KEY PROBLEMS”**

10 – 14 SEPTEMBER

Irkutsk, 2018

The Conference «Freshwater Ecosystems – Key Problems» is dedicated to the 90th anniversary of Limnological Institute of the Siberian Branch of the Russian Academy of Sciences and is a large event devoted to the studies of mechanisms of formation, biodiversity and evolution of the world's lakes and other aquatic ecosystems using the methods of interdisciplinary sciences (including hydrobiology, hydrology, hydrochemistry, physics, geology, climatology, biology, etc.). Such a comprehensive and interdisciplinary approach to the studies of aquatic ecosystems is necessary for identifying quantitative regularities, processes and phenomena in relation to the environment, forecast of possible changes affected by natural processes and anthropogenic impact, development of methods for physical, chemical and biological monitoring, assessment of the effect of economic activity on the environment and scientific rationale of measures necessary for protection of Lake Baikal and other lakes of the world, as well as elaboration of recommendations for rational use of resources of lacustrine and aquatic systems. The past 50 years are characterised by the intense impact of local and global anthropogenic factors on the ecosystem of freshwater environments irrespective of their scale. Moreover, the anthropogenic factor can overlap with the internal cycles of aquatic environments. During the Conference, it is planned to discuss current developments of various freshwater ecosystems experiencing landscape and climatic changes as well as increasing anthropogenic impact.

All presentations of this programme are included in 5 main sessions. Besides session presentations, International Scientific School “Modern Limnology at the Intersection of Disciplines” is held within the framework of the Conference. A start-up school on possibilities of financing of innovation projects for young researchers, drafting business plans and defence of the projects is included in the Programme. Students of 8-11 grades who are involved in research under the leadership of teachers present the results of their investigations at the School Session within the framework of the Conference.

In addition, Skype-session, webinars and Round Table Discussion «Problems and Prospects of Fishery in Artificial Rearing of Fish and Their Propagation under Natural Conditions» are held during the Conference. Best papers will be published in special issues of international peer-reviewed journals: Quaternary International (IF – 2.199 (WoS), Scopus), Limnology (IF – 0.91 (WoS), Scopus), Journal of Great Lakes Research (IF – 2.354 (WoS), Scopus), Russian Journal of Ecology (IF – 0.430 (WoS), Scopus), Geography and Natural Resources (WoS, Scopus).

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10 September, Monday

08:30 - Departure to Baikal Business Centre (from Hotel Academicheskaya)

09:00-10:30 Registration of participants (in the lobby of Baikal Business Centre)

10:30-11:00 Opening of the Conference (conference hall, Baikal Business Centre):

Andrey Fedotov, Director, Chair of Scientific Committee, LIN SB RAS

Valentin Parmon, RAS Vice-President, SB RAS President

Alexander Timchenko, Director General, Association of Lake Regions

Masumi Yamamuro, Prof., the University of Tokyo, Kashiwa, Japan

Moore Marianne, Prof., Dept. of Biological Sciences, Wellesley College, USA

Robert Hecky, Editor, Journal of Great Lakes Research

Lars Rudstam, Cornell University, Director of Biological Field Station

11:00-13:00 International Scientific School “Modern Limnology at the Intersection of Disciplines” (conference hall, Baikal Business Centre):

Chairs: Fedotov A., Moore M. Secretary: Sapozhnikova Yu.

11:00-11:20 Fedotov A. CURRENT ECOLOGICAL STATUS OF LAKE BAIKAL
(Limnological Institute SB RAS, Irkutsk, Russia)

11:20-11:40 Moore M. TROPHIC COUPLING OF THE MICROBIAL AND THE PELAGIC FOOD WEBS IN LAKE BAIKAL (Department of Biological Sciences, Wellesley College, USA)

11:40-12:00 Rudstam L. SPATIAL DYNAMICS IN THE PELAGIA OF LARGE LAKES – TECHNOLOGICAL ADVANCES LEADS TO IMPROVED UNDERSTANDING OF THE ECOLOGY OF ZOOPLANKTON AND FISH (Cornell University, Department of Natural Resources, Biological Field Station at Shackelton Point, NY, USA)

12:00-12:20 Filatov N. PRESENT-DAY STATE AND CHANGES OF THE LARGEST LAKES OF EUROPE: PROBLEMS AND SOLUTIONS (Northern Water Problems Institute KarRC RAS, Petrozavodsk, Russia)

12:20-12:40 Pozdnyakov Sh. A MODERN APPROACH TO THE STUDY OF SEDIMENT IN FRESHWATER ECOSYSTEMS (Institute of Limnology RAS, St. Petersburg, Russia)

12:40-13:00 Bezmaternykh D. SPATIAL-TEMPORAL ORGANIZATION OF AQUATIC ECOSYSTEMS AND ASSESSMENT OF IMPACT OF NATURAL/ ANTHROPOGENIC FACTORS ON HYDROBIOCENOSES FORMATION AND SURFACE WATER QUALITY IN OB BASIN AND OB-IRTYSH INTERFLUVE (Institute for Water and Environmental Problems SB RAS, Barnaul, Russia)

13:00-15:00 Lunch (restaurant, Baikal Business Centre)

15:00-18:00 Welcome reception and Ice breaker party devoted to the anniversary of Limnological Institute (conference hall, Baikal Business Centre)

15:00-18:00 City Tour for guests of the Conference (group 1)

18:00-20:00 Ice breaker party (small conference hall, Baikal Business Centre)

20:00-22:00 City Tour for guests of the Conference (group 2)

11 September, Tuesday

09:00-13:00 International Scientific School “Modern Limnology at the Intersection of Disciplines” (conference hall, LIN SB RAS):

Chairs: Subetto D., Panchenko M. Secretary: Galach’yants A.D.

09:00-09:30 Subetto D. LATE PLEISTOCENE AND HOLOCENE SEDIMENTARY ENVIRONMENTS IN LAKE ONEGO, NW RUSSIA (Northern Water Problems Institute KarRC RAS, Petrozavodsk, Herzen University, St. Petersburg, Russia)

09:30-10:00 Zemskaya T. DIVERSITY AND STRUCTURE OF MICROBIAL COMMUNITIES IN LAKE BAIKAL BOTTOM SEDIMENTS (Limnological Institute SB RAS, Irkutsk, Russia)

10:00-10:30 Granin N. THE EFFECT OF GAS HYDRATES AND METHANE ON THE HYDROPHYSICAL CHARACTERISTICS OF LAKE BAIKAL (Limnological Institute SB RAS, Irkutsk, Russia)

10:30-11:00 Ermolaeva N. ROLE OF NATURAL AND CLIMATIC FACTORS IN FORMATION OF AUTOCHTHONIC ORGANIC SUBSTANCE STREAMS IN SMALL LAKES OF THE SOUTH OF WESTERN SIBERIA (Institute for Water and Environmental Problems SB RAS, Barnaul, Russia)

11:00-11:15 Coffee break (lobby near the conference hall, LIN SB RAS)

Chairs: Khodzher T., Tasiemski A. Secretary: Galach’yants A.D.

11:15-11:45 Khodzher T. MODERN CHEMICAL COMPOSITION OF THE ENVIRONMENT OF BAIKAL ORGANISMS (Limnological Institute SB RAS, Irkutsk, Russia)

11:45-12:15 Tasiemski A. ANTIMICROBIAL PEPTIDES TO FOLLOW THE ADAPTATION/ACCLIMATION OF INVERTEBRATES TO EXTREME/CHANGING AQUATIC HABITATS (Université de Lille, Lille, France)

12:15-12:45 Kouraev A. ICE COVER OF EURASIAN LAKES FROM SATELLITE AND IN SITU OBSERVATIONS (the University of Toulouse, Toulouse, France)

13:00-14:00 Lunch (canteen in Institute of Solar-Terrestrial Physics, 126-a, Lermontov St.; canteen in LIN SB RAS; cafe “Ezhevika”, 2, Ulan-Batorskaya St.; cafe in Molchanov-Sibirsky Library)

14:00-18:00 Session and webinars (Molchanov-Sibirsky Library):

Session 1. Anthropogenic Impact on Freshwater Ecosystems, Ecological Monitoring and Legal Principles (room 723, 7 floor)

Session 2. Biodiversity and Development of Biotic Ecosystems (room 706, 7 floor)

Session 3. Aquatic Organisms: Aspects of Physiology, Biochemistry and Genomics (room 703, 7 floor)

Session 4. Changes of Abiotic Components in Freshwater Ecosystems and Adjacent Landscapes (room 403, 4 floor)

14:00-16:00 Start-up school for young researchers (Molchanov-Sibirsky Library, room 203, 2 floor): Primary financing of innovation projects via grants and state foundations. Expert Ekaterina Flerova (V. Williams Forage Production and Agroecology Centre, Yaroslavl, Russia)

18:00-18:30 Dinner (cafe “Ezhevika”, 2, Ulan-Batorskaya St.; cafe in Molchanov-Sibirsky Library; canteen at LIN SB RAS).

18:30 - Trip by bus to Listvyanka (73 km from Irkutsk to Lake Baikal)

19:30-21:00 Evening performance: “Theatre of Art Song at Lake Baikal” (Listvyanka)

21:00 - Departure to Irkutsk

11 September, Tuesday

Session 1. Anthropogenic Impact on Freshwater Ecosystems, Ecological Monitoring and Legal Principles (Molchanov-Sibirsky Library, room 723, 7 floor)

Chairs: Gomboev B.O., Mikhailova L.V. Secretary: Zubkov I.N.

- 14:00-14:15** Penkova O.G., Sheveleva N.G. CHANGES OF THE ZOOPLANKTON COMMUNITY IN MALOE MORE STRAIT DURING 20 YEARS (Limnological Institute SB RAS, Irkutsk, Russia)
- 14:15-14:30** Medvezhonkova O.V. IMPACT OF BEACHED ALGAE ON PSAMMON DEVELOPMENT IN THE NORTH BASIN OF LAKE BAIKAL (Limnological Institute SB RAS, Irkutsk, Russia)
- 14:30-14:45** Gomboev B.O. CRITICAL PARAMETERS OF NEGATIVE NATURAL AND ANTHROPOGENIC IMPACT ON LAKE BAIKAL ECOSYSTEM (Baikal Institute of nature Management SB RAS, Ulan-Ude, Russia)
- 14:45-15:00** Mikhailova L.V. STANDARTIZATION OF OIL-PRODUCTS CONTENT IN DIFFERENT BOTTOM SEDIMENTS OF SURFACE WATER OBJECTS KHANTY-MANSIISK AUTONOMOUS AREA (HE State Agricultural University of the Northern Trans-Urals, State Scientific & Production Center of Fishery, Tuymen, Russia)
- 15:00-15:15** Shtykova Yu.R. MALDI-TOF-MS ANALYSIS IN ACCELERATED IDENTIFICATION OF OPPORTUNISTIC BACTERIA IN DIFFERENT ECOTOPES OF THE COASTAL ZONE OF LAKE BAIKAL (Limnological Institute SB RAS, Irkutsk, Russia)
- 15:15-15:30** Ulzetueva I.D. MAIN DIRECTIONS OF THE ECOLOGICAL STATE IMPROVEMENT OF WATER OBJECTS OF THE BAIKAL NATURAL TERRITORY (BNT) (Baikal Institute of nature Management SB RAS, Ulan-Ude, Russia)
- 15:30-15:45** Grigorieva I.L., Chekmariova E.A. THE CHANGING OF HYDROECOLOGICAL CONDITION OF WATER OBJECTS UNDER THE THERMAL POLLUTION (Ivankovo Research Station the Department of Water Problems Institute RAS, Konakovo, Russia)
- 15:45-16:00** Bazova N.V. LONG-TERM HYDROBIOLOGICAL MONITORING (1919-2017) AS A BASIS OF ECOLOGICAL SECURITY OF CATCHMENT AREA OF THE SELENGA RIVER (MAIN TRIBUTARY OF LAKE BAIKAL) (Institute of General and Experimental Biology SB RAS, Ulan-Ude, Russia)
- 16:00-16:15** **Coffee break (lobby, 7 floor, Molchanov-Sibirsky Library)**

Chairs: Filatov N.N., Belykh O. Secretary: Zubkov I.N.

- 16:15-16:30** Bolotova N.L. PECULIARITIES OF ANTHROPOGENIC SUCCESSIONS OF THE DIFFERENT TYPE LAKE ECOSYSTEMS (Vologda State University, Vologda, Russia)
- 16:30-16:45** Gagarinova O.V. WATER PROTECTION ZONE OF THE LAKE BAIKAL – SCIENTIFIC, LEGAL AND ENVIRONMENTAL ASPECTS (V.B. Sochava Institute of Geography SB RAS, Irkutsk, Russia)
- 16:45-17:00** Anoshko P.N. RESEARCH PERSPECTIVES OF WINTER DISTRIBUTION OF BAIKAL OMUL AND MONITORING OF ITS RESERVES (Limnological Institute SB RAS, Irkutsk, Russia)
- 17:00-17:15** Zubkov I.N. SAXITOXIN DETERMINATION IN BIOTA OF EASTERN SIBERIA AND LAKE HOVSGOL (Limnological Institute SB RAS, Irkutsk, Russia)

- 17:15-17:30** Khanaev I.V. QUANTITATIVE RECORD OF SPONGE COMMUNITIES IN THE SHALLOW ZONE OF LAKE BAIKAL AND ASSESSMENT OF THEIR DIVERSITY USING UNDERWATER MAPPING OF SAMPLE PLOTS ON TESTING AREAS AND TRANSECTS, 2015-2018 (Limnological Institute SB RAS, Irkutsk, Russia)
- 17:30-17:45** Romanov R.E. REMEDIATION OF HEAVY METAL POLLUTION WITH HYBRID SORBENTS: EXPERIMENTAL ESTIMATION OF CONSEQUENCES FROM PLANKTON PERSPECTIVE (Central Siberian Botanical Garden of the SB RAS, Novosibirsk, Russia)
- 17:45-18:00** Semenov M.Yu. INDICATORS OF POLLUTION OF SURFACE WATERS OF LAKE BAIKAL WATERSHED BY POLYCYCLIC AROMATIC HYDROCARBONS (Limnological Institute SB RAS, Irkutsk, Russia)

Session 2. Biodiversity and Development of Biotic Ecosystems (Molchanov-Sibirsky Library, room 706, 7 floor)

Chairs: Medvinsky A.B., Maksimova N.V. Secretary: Bukin S.V.

- 14:00-14:15** Pavlova O.N. NATURAL OIL SEEPAGES IN CENTRAL BAIKAL (CAPE GOREVOY UTES): CURRENT CHANGES SINCE THE DISCOVERY (Limnological Institute SB RAS, Irkutsk, Russia)
- 14:15-14:30** Lomakina A.V. ANAEROBIC OXIDATION OF METHANE AND MICROBIAL CONSORTIA IN DEEP SEDIMENTS OF LAKE BAIKAL (Limnological Institute SB RAS, Irkutsk, Russia)
- 14:30-14:45** Medvinsky A.B. TEMPERATURE VARIATIONS AND LAKE PLANKTON ABUNDANCE FLUCTUATIONS: DIRECT AND INDIRECT TEMPERATURE IMPACT ON PLANKTON DYNAMICS (Institute of Theoretical and Experimental Biophysics RAS, Pushino, Russia)
- 14:45-15:00** Obolkina L.A. INTERANNUAL DYNAMIC OF SPRING CILIATES IN SOUTHERN BAIKAL (Limnological Institute SB RAS, Irkutsk, Russia)
- 15:00-15:15** Silow E.A. THE PRESENT STATE OF THE LAKE BAIKAL PLANKTON ACCORDING TO LONG-TERM MONITORING OBSERVATIONS (Irkutsk State University, Institute of Biology, Irkutsk)
- 15:15-15:30** Yanygina L.V. LONG-TERM DYNAMICS OF RIVER SNAIL (*VIVIPARUS VIVIPARUS*) DISTRIBUTION IN THE NOVOSIBIRSK RESERVOIR (Institute for Water and Environmental Problems SB RAS and Altai State University, Barnaul, Russia)
- 15:30-15:45** Eropova I.O. MACROZOOBENTHOS OF THE SOME THERMAL SPRINGS OF NORTHERN BAIKAL AND BARGUZIN VALLEY IN EARLY SPRING (Irkutsk State University, Irkutsk, Russia)
- 15:45-16:00** Khalzov I.A. ECTOSYMBIOTIC CONSORTIA OF INFUSORIA AND PROKARYOTES ASSOCIATED WITH AMPHIPODS INHABITING THE UNDERWATER HYDROTHERMAL VENT FROLIKHA (LAKE BAIKAL) (Limnological Institute SB RAS, Irkutsk, Russia)
- 16:00-16:15** **Coffee break (lobby, 7 floor, Molchanov-Sibirsky Library)**

Chairs: Secretary: Zemskaya T., Kulikovskiy M. Secretary: Bukin S.V.

- 16:15-16:30** Naumova T.V. MEIOZOOBENTHOS OF POSOLSKY BAY METANE SEEPING (LAKE BAIKAL) (Limnological Institute SB RAS, Irkutsk, Russia)
- 16:30-16:45** Makarkina N.V., Penkova O.G. ZOOPLANKTON IN INLAND WATER BODIES OF OLKHON ISLAND (LAKE BAIKAL): TAXONOMIC COMPOSITION, QUANTITATIVE CHARACTERISTICS (Irkutsk State University, Limnological Institute SB RAS, Irkutsk, Russia)

- 16:45-17:00** Tabakova M.A. THE HEPATIC TRIAD OF THE BAIKAL SEAL (A.A. Ezhevsky Irkutsk State Agricultural University, Irkutsk, Russia)
- 17:00-17:15** Zuyev Yu.A. DISTRIBUTION OF ZOOBENTHOS OF LADOGA LAKE ON THE ROCKY LITTORAL (Berg State Research Institute on Lake and River Fisheries (GosNIORH, St. Petersburg, Russia)
- 17:15-17:30** Annenkova N.V. DINOFLAGELLATES FROM BAIKAL AND NORDIC MARINE AREA AS AN EXAMPLE OF RECENT DIVERGENCE (Limnological Institute SB RAS, Irkutsk, Russia)
- 17:30-17:45** Matafonov P.V. ELEMENTS OF FUNCTIONING AND LONG-TERM DYNAMICS OF THE AQUATIC ECOSYSTEM OF SELENGA RIVER DELTA (Institute of Natural Resources, Ecology and Cryology SB RAS, Chita, Russia)
- 17:45-18:00** Ivanov E.V. CHARACTERISTICS OF THE ICHTHYOFAUNA OF LAKE. OZHOGINO, YAKUTIA (Institute for Biological Problems of Cryolithozone SB RAS, Yakutia)

Session 3. Aquatic Organisms: Aspects of Physiology, Biochemistry and Genomics (Molchanov-Sibirsky Library, room 703, 7 floor)

Chairs: Secretary: Drucker V.V., Sukhanova L.V. Secretary: Bashenkhaeva M.V.

- 14:00-14:15** Ryazanov M.M., Akhmedzyanov R.A. STUDY OF THE EFFECT OF PROTATRANS ON THE AQUACULTURE OF WHITEFISH HYBRIDS (A.A. Ezhevsky Irkutsk State Agrarian University, Irkutsk, Russia)
- 14:15-14:30** Rudchenko A.E. INFLUENCE OF THE REPRODUCTIVE CYCLE ON THE COMPOSITION AND CONTENT OF FATTY ACIDS IN TISSUES OF MALE AND FEMALE OF PERCH (*PERCA FLUVIATILIS*) FROM THE MESOTROPHIC RESERVOIR (Siberian Federal University, Krasnoyarsk, Russia)
- 14:30-14:45** Poroshina A.A. MODELING THE INFLUENCE OF VARIOUS SCENARIOS OF GENETIC INTROGRESSION ON THE EVOLUTION OF NEUTRAL MARKERS (Limnological Institute SB RAS, Irkutsk, Russia)
- 14:45-15:00** Alyoshina A.V. BREEDING OF WHITEFISH AND THEIR HYBRIDS IN SMALL RECIRCULATING AQUACULTURE SYSTEMS (Limnological Institute SB RAS, Irkutsk, Russia)
- 15:00-15:15** Sayvanova S.A. ARCHITECTONICS OF INTERNAL ORGANS OF THE BLOODSTREAM SPLEEN OF BAIKAL SEAL (A.A. Ezhevsky Irkutsk State Agrarian University, Irkutsk, Russia)
- 15:15-15:30** Krasnopeeov A.Yu. AN ALGORITHM FOR DETERMINING THE STATISTICAL REPRESENTATIVENESS OF DATA IN METAGENOMIC STUDIES (Limnological Institute SB RAS, Irkutsk National Research Technical University, Irkutsk, Russia)
- 15:30-15:45** Lubyaga Y.A. COMPARATIVE STUDY OF NONSPECIFIC MECHANISMS OF STRESS ADAPTATION IN *GMELENOIDES FASCIATUS* AND *GAMMARUS LACUSTRIS* FROM REMOTE POPULATIONS UNDER HYPERTHERMIC CONDITIONS (Irkutsk State University, ANO Baikal Research Center, Irkutsk, Russia)
- 15:45-16:00** Pekkoeva S.N. LIPID PROFILE OF DIFFERENT AGE JUVENILES OF ATLANTIC SALMON *SALMO SALAR* L FROM WATERCOURSES OF THE WHITE SEA (Institute of Biology KarRC RAS, Petrozavodsk, Russia)
- 16:00-16:15** **Coffee break (lobby, 7 floor, Molchanov-Sibirsky Library)**

Chairs: Secretary: Radnaeva L.D., Tikhonova I.V. Secretary: Bashenkhaeva M.V.

- 16:15-16:30** Molkova A.A. EXTRAORGANIC ARTERIAL NETWORK OF THE ADRENAL GLANDS IN THE BAIKAL SEAL (A.A. Ezhevsky Irkutsk State Agrarian University, Irkutsk, Russia)
- 16:30-16:45** Yakhnenko V.M. MORPHOFUNCTIONAL FEATURES OF ERYTHROCYTES IN SOME COTTOID FISH OF BAIKAL (Limnological Institute SB RAS, Irkutsk, Russia)

- 16:45-17:00** Taraskin V.V. FATTY ACID COMPOSITION OF DEEPWATER BAIKAL SPONGES FROM HYDROTHERMAL DISCHARGE AREA (Federal State Budget Scientific Establishment the Baikal Institute of Nature Management SB RAS, Ulan-Ude, Russia)
- 17:00-17:15** Glyzina O.Yu. INTERDISCIPLINARY STUDIES OF LAKE BAIKAL HYDROBIONTS PERFORMED IN THE EXPERIMENTAL FRESHWATER AQUARIUM (Limnological Institute SB RAS, Irkutsk, Russia)
- 17:15-17:30** Solovyev M.M. COMPARATIVE ANALYSIS OF DIGESTIVE ENZYMES OF SYMPATRIC PAIR OF WHITEFISHES FROM TELETSKOYE LAKE (ALTAI REGION, RUSSIA) (Institute of Systematics and Ecology of Animals SB RAS, Novosibirsk, Russia)
- 17:30-17:45** Bystrova K.A. LIPIDS AND FATTY ACID PROFILES OF MUSCLES AND LIVER OF SMOLTS OF THE BROWN TROUT (*SALMO TRUTTA* L.) (KOLA PENINSULA) (Institute of Biology KarRC RAS, Petrozavodsk, Russia)
- 17:45-18:00** Voronin V.P. LIPIDS AND FATTY ACID PROFILES OF FORAGE OBJECTS OF JUVENILES OF SALMONIDS IN RIVERS OF LAKE LADOGA AND WHITE SEA BASIN (Institute of Biology KarRC RAS, Petrozavodsk, Russia)

Session 4. Changes of Abiotic Components in Freshwater Ecosystems and Adjacent Landscapes (Molchanov-Sibirsky Library, room 403, 4 floor)

Chairs: Secretary: Gorin S.L., Grechushnikova M.G. Secretary: Zakharenko A.S.

- 14:00-14:15** Cazac V.Ya. CLIMATE CHANGE AND WATER RESOURCES OF MOLDOVA (State Hydrometeorological Service, Directorate of Hydrology Republic of Moldova, Chisinau)
- 14:15-14:30** Nasonov S.V. LIDAR STUDIES OF FORMATION OF VERTICAL STRUCTURE OF TROPOSPHERIC AEROSOL FIELDS OVER LAKE BAIKAL IN BACKGROUND CONDITIONS AND DURING FOREST FIRES (V.E. Zuev Institute of Atmospheric Optics RAS, Tomsk, Russia)
- 14:30-14:45** Chernyshov M.S. PARAMETERS OF THE WATER LEVEL REGIME IN LAKE BAIKAL BASED ON THE DATA OF PRE-INSTRUMENTAL PERIOD (Limnological Institute SB RAS, Irkutsk, Russia)
- 14:45-15:00** Sutorikhin I.A. HYDROOPTICAL PARAMETERS OF LAKE TELETSKOYE IN THE SUMMER AND WINTER PERIODS 2017-2018 (Institute for Water and Environmental Problems SB RAS, Barnaul, Russia)
- 15:00-15:15** Gorin S.L. COASTAL LAKES OF THE KAMCHATKA PENINSULA: VARIETY OF THE HYDROLOGICAL CONDITIONS CREATED BY RIVERS, TIDES, LOCAL CLIMATE AND COASTAL PROCESSES (Russian Research Institute of Fisheries and Oceanography, Moscow, Russia)
- 15:15-15:30** Grechushnikova M.G. METHANE EMISSION FROM THE SURFACE OF VALLEY TYPE RESERVOIR (M.V. Lomonosov Moscow State University, Water Problems Institute RAS, Moscow, Russia)
- 15:30-15:45** Khlystov O.M. STUDY OF HYDRATE-BEARING STRUCTURES OF LAKE BAIKAL (Limnological Institute SB RAS, Irkutsk, Russia)
- 15:45-16:00** Khabuev A.V. ASSESSMENT OF GAS HYDRATE RESOURCES: CASE STUDY OF THE SEEP "KRASNY YAR", LAKE BAIKAL (Limnological Institute SB RAS, Irkutsk, Russia)
- 16:00-16:15** **Coffee break (lobby, 7 floor, Molchanov-Sibirsky Library)**

Chairs: Secretary: Sutorikhin I.A., Zinoviev A.T. Secretary: Zakharenko A.S.

- 16:15-16:30** Kotovshchikov A.V. TYPIFICATION OF LAKE TELETSKOYE TRIBUTARIES (ALTAI) BY LANDSCAPE-GEOGRAPHICAL FEATURES, PHYSICAL AND CHEMICAL WATER PARAMETERS AND ALGOCENOSIS DEVELOPMENT (Institute for Water and Environmental Problems SB RAS, Barnaul, Russia)

- 16:30-16:45** Osipova O.P. SUMMER ATMOSPHERIC CIRCULATION PATTERNS OVER THE GLACIARIZED ZONE OF THE BAIKALSKY RIDGE (V.B. Sochava Institute of Geography SB RAS, Irkutsk, Russia)
- 16:45-17:00** Potemkina T.G. HYDROMETEOROLOGICAL FACTORS AND ECOLOGY OF THE COASTAL ZONE OF LAKE BAIKAL: RECENT CHANGES (Limnological Institute SB RAS, Irkutsk, Russia)
- 17:00-17:15** Davydova A. SET OF HARDWARE-SOFTWARE COMPLEXES FOR INVESTIGATION OF AQUATIC ENVIRONMENT IN EVALUATION OF BIORESOURCES AND ECOLOGICAL SITUATION (National Research Tomsk State University, Tomsk, Russia)
- 17:15-17:30** Zinoviev A.T. HYDROTHERMAL AND ICE PROCESSES IN LAKE TELETSKOYE: OBSERVATIONS AND MODELING (Institute for Water and Environmental Problems SB RAS, Barnaul, Russia)
- 17:30-17:45** Karnaukhova G.A. MANAGED LEVEL MODE AS A LEADING FACTOR OF THE CYCLICITY OF TRANSGRESSIVE-REGGRESSIVE SEDIMENTATION IN THE WATER RESERVOIRS OF THE ANGARA CASCADE (Federal State Budgetary Institution of Science Institute of the Earth's Crust SB RAS, Irkutsk, Russia)
- 17:45-18:00** Onishchuk N.A. THE CURRENT HYDROCHEMICAL STATE OF SMALL TRIBUTARIES OF LAKE BAIKAL NEAR LISTVYANKA SETTLEMENT (Limnological Institute SB RAS, Irkutsk, Russia)

12 September, Wednesday

09:00-13:00 International Scientific School “Modern Limnology at the Intersection of Disciplines” (conference hall, LIN SB RAS):

Chairs: Belikov S., Kostrova S. Secretary: Sukhanova E.

09:00-09:30 Kulikovskiy M. PROCESSES OF DIATOMS DIVERSITY FORMATION IN LAKES BAIKAL AND HOVSGOL (Institute of Plant Physiology RAS, Moscow, Russia)

09:30-10:00 Kostrova S. POSTGLACIAL HISTORY OF LAKE LADOGA DOCUMENTED BY DIATOM OXYGEN ISOTOPES (Alfred Wegener Institute Helmholtz Centre for Polar and Marine Research, Research Unit Potsdam, Potsdam, Germany)

10:00-10:30 Garmaev E. IMPACT OF DISCHARGES OF GUSINOOZERSKAYA POWER PLANT ON THERMAL AND HYDROCHEMICAL REGIME OF LAKE GUSINOE (Baikal Institute of Nature Management SB RAS, Ulan-Ude, Russia)

10:30-11:00 Kirillin G. SEASONAL MIXING REGIME OF EURASIAN LAKES: HOW RESISTANT IS IT TO THE CLIMATE VARIABILITY? (Leibniz-Institute of Freshwater Ecology and Inland Fisheries, Berlin, Germany)

11:00-11:15 Coffee break (lobby near the conference hall, LIN SB RAS)

Chairs: Fialkov V., Kirillin G. Secretary: Sukhanova E.

11:15-11:45 Fialkov V., Kupchinsky A. MODERN INFORMATION TECHNOLOGIES IN THE STUDIES OF LAKE BAIKAL (Baikal Museum ISC SB RAS, Listvyanka, Russia)

11:45-12:15 Mikhailenko A. MERCURY IN BOTTOM SEDIMENTS OF WATER BODIES WITH DIFFERENT SALINITY IN THE SOUTH OF EUROPEAN TERRITORY OF RUSSIA (Institute of Earth Sciences of Southern Federal University, Russia)

12:15-12:45 Prozorova L. TRACE ELEMENTS IN ECONOMICALLY IMPORTANT MOLLUSKS FROM THE MEKONG AND THE RED RIVER DELTAS (Federal Scientific Center of the East Asia Terrestrial Biodiversity FEB RAS, Vladivostok, Russia)

13:00-14:00 Lunch (canteen in Institute of Solar-Terrestrial Physics, 126-a, Lermontov St.; canteen in LIN SB RAS; cafe “Ezhevika”, 2, Ulan-Batorskaya St.; cafe in Molchanov-Sibirsky Library)

14:00-19:00 Sessions and webinars (Molchanov-Sibirsky Library):

Session 1. Anthropogenic Impact on Freshwater Ecosystems, Ecological Monitoring and Legal Principles (room 723, 7 floor)

Session 2. Biodiversity and Development of Biotic Ecosystems (room 706, 7 floor)

Session 3. Aquatic Organisms: Aspects of Physiology, Biochemistry and Genomics (room 703, 7 floor)

Session 4. Changes of Abiotic Components in Freshwater Ecosystems and Adjacent Landscapes (room 403, 4 floor)

Session 5. Paleolimnology, Evolution of Lake Ecosystems and Reconstruction of Environmental and Climatic Changes in the Past (room 404, 4 floor)

14:00-16:00 Start-up school for young researchers (Molchanov-Sibirsky Library, room 203, 2 floor): Drafting business plans. Expert Ekaterina Flerova (V. Williams Forage Production and Agroecology Centre, Yaroslavl, Russia)

19:00-20:00 Dinner (cafe “Ezhevika”, 2, Ulan-Batorskaya St.; cafe in Molchanov-Sibirsky Library; canteen at LIN SB RAS).

20:30-21:30 Documentary films from the programme of Baikal International Film Festival «People and Environment» (conference hall, LIN SB RAS).

20:30-21:30 - Excursion to Equipment Sharing Centers (LIN SB RAS)

12 September, Wednesday

Session 1. Anthropogenic Impact on Freshwater Ecosystems, Ecological Monitoring and Legal Principles (Molchanov-Sibirsky Library, room 723, 7 floor)

Chairs: Garmaev E., Domysheva V.M. Secretary: Kustova O.V.

- 14:00-14:15** Kholmogorova N.V. INFLUENCE OF NATURAL AND ANTHROPOGENIC ENVIRONMENTAL FACTORS ON THE STRUCTURE OF THE MACROZOOBENTHOS IN THE IZHEVSK WATER RESERVOIR (Udmurt State University, Izhevsk, Russia)
- 14:15-14:30** Mincheva E.V. GENETIC DIVERSITY OF *SPIROGYRA* IN LAKE BAIKAL (Limnological Institute SB RAS, Irkutsk)
- 14:30-14:45** Zuyeva N.V. THE TROUT FARM INFLUENCE ON A BAY OF VALAAM ARCHIPELAGO (LADOGA LAKE) (Russian State Hydrometeorological University, St. Petersburg, Russia)
- 14:45-15:00** Belov S.Yu. DEVELOPMENT OF APPROACHES AND METHODS FOR MONITORING THE STATUS OF ECOSYSTEMS BY REMOTE SENSING IN THE SHORT-WAVE RANGE OF RADIO WAVES (M.V. Lomonosov Moscow State University, Moscow, Russia)
- 15:00-15:15** Kudryavtsev A.A. PECULIARITIES OF QUANTITATIVE DETERMINATION OF HYDROCARBON CONTAMINATIONS IN THE BOTTOM SEDIMENTS OF INTRA-BOG LAKES IN KHANTY-MANSIISK AUTONOMOUS AREA (HE State Agricultural University of the Northern Trans-Urals, Tyumen, Russia)
- 15:15-15:30** Kulikova N.N. ANTHROPOGENIC POLLUTION OF LAKE BAIKAL NEAR-SHORE ZONE WITH CHEMICAL ELEMENTS AS A MAIN FACTOR OF EXPANSION OF ALGA OF THE GENUS *SPIROGYRA* SPP. (Limnological Institute SB RAS, Irkutsk, Russia)
- 15:30-15:45** Tikhonova I.V. COMBINED APPROACH WITH AN EMPHASIS ON TOXIC CYANOBACTERIA FOR ESTIMATION OF ECOLOGICAL STATE OF THE MUHOR BAY (LAKE BAIKAL, RUSSIA) (Limnological Institute SB RAS, Irkutsk, Russia)
- 15:45-16:00** Zolnikova I.F. USE OF MORPHOLOGICAL METHODS IN GEOECOLOGICAL RESEARCHES OF THE BAIKAL REGION (Irkutsk State Agricultural University of name A.A. Ezhevsky, Irkutsk, Russia)
- 16:00-16:15** **Coffee break (lobby, 7 floor, Molchanov-Sibirsky Library)**

Chairs: Gerasimov Yu.V., Kondratyeva L.M. Secretary: Kustova O.V.

- 16:15-16:30** Gerasimov Yu.V. TRANSFORMATION OF THE ECOSYSTEM OF A LARGE MOUNTAINOUS LAKE (SEVAN, ARMENIA) UNDER DIFFERENT ANTHROPOGENIC LOAD (Papanin Institute for Biology of Inland Waters RAS, Borok, Russia)
- 16:30-16:45** Man'kovsky V.I., Sherstyankin P.P. USE OF HYDROOPTIC CHARACTERISTICS FOR CONTROL OF THE STATE OF WATER BODIES ECOSYSTEMS (Marine Hydrophysical Institute RAS, Sevastopol')
- 16:45-17:00** Andrianova A.V. FEATURES OF THE SPATIAL DISTRIBUTION OF BAIKAL AMPHIPODS IN THE ENISEIY RIVER AND DATA VISUALIZATION IN THE GEOINFORMATIONAL WEB-SYSTEM (Institute of Computational Modeling SB RAS, Scientific Research Institute of Ecology of Fishery Reservoirs, Siberian Federal University, Krasnoyarsk, Russia)
- 17:00-17:15** Naumkina D.I. USING SOFTWARE MAECOS FOR DEVELOPMENT OF THE MODEL OF BIOLOGICAL RESOURCE POPULATION UNDER DIFFERENT FACTORS (Novosibirsk Branch of State Scientific-and Production Center of Fishery, Novosibirsk, Russia)

- 17:15-17:30** Davydova A.Yu. PLANKTON BIODIVERSITY MONITORING WITH THE USE OF DIGITAL HOLOGRAPHIC CAMERA (National Research Tomsk State University, Tomsk, Russia)
- 17:30-17:45** Fedorova G.A. PIGMENT COMPOSITION OF BAIKAL SPONGE ALGOSYMBIONTS AS IDENTIFICATION OF SPONGE SYMBIOTIC COMMUNITY STATE (Limnological Institute SB RAS, Russian State University of Justice, Irkutsk, Russia)
- 17:45-18:00** Chernogor L.I. APPLICATION OF THE MODEL CELL CULTURE OF PRIMMORPHS IN THE CONDITIONS OF MASS DEATH OF BAIKAL SPONGES (Limnological Institute SB RAS, Irkutsk, Russia)

Session 2. Biodiversity and Development of Biotic Ecosystems (Molchanov-Sibirsky Library, room 706, 7 floor)

Chairs: Yanygina L.V., Mitrofanova E.Yu. Secretary: Volkova E.A.

- 14:00-14:15** Adamovich B.V. SEASONAL VARIATIONS IN BACTERIOPLANKTON ABUNDANCE IN THE LAKES OF DIFFERENT TROPHIC STATE (Belarusian State University, Minsk, Belarus)
- 14:15-14:30** Yermolaeva N.I. THE ROLE OF AQUATIC ORGANISMS IN THE FORMATION OF THE PHYSICO-CHEMICAL ENVIRONMENT IN AQUATIC ECOSYSTEMS (ON THE EXAMPLE OF THE SMALL LAKES OF THE NOVOSIBIRSK REGION) (Institute for Water and Environmental Problems SB RAS, Barnaul, Russia)
- 14:30-14:45** Podlesnaya G.V. DENITRIFYING BACTERIA IN CULTURED MICROBIAL COMMUNITY OF SURFACE MICROLAYER OF LAKE BAIKAL (Limnological Institute SB RAS, Irkutsk, Russia)
- 14:45-15:00** Makarevich T.A. HOW THE PERIPHYTON HAS CHANGED AFTER INTRODUCTION OF EXOTIC MOLLUSC *DREISSENA POLYMORPHA* PALLAS IN THE LAKE? (Belarusian State University, Minsk, Belarus)
- 15:00-15:15** Potapov S.A. GENETIC DIVERSITY OF T4-LIKE BACTERIOPHAGE OF FAMILY MYOVIRIDAE IN BENTHIC BIOFILMS OF LAKE BAIKAL (Limnological Institute SB RAS, Irkutsk, Russia)
- 15:15-15:30** Naumova E.Yu. THE MODERN QUANTITATIVE INDICATORS OF THE POPULATION OF *MACROHECTOPUS BRANICKII* DYB. FROM BAIKAL LAKE (Limnological Institute SB RAS, Irkutsk, Russia)
- 15:30-15:45** Zaidykov I.Yu. PHYLOGENETIC RELATIONSHIPS AND RECONSTRUCTION OF THE POPULATION HISTORY OF ASIAN REPRESENTATIVES OF THE GENUS *EPISCHURA* (COPEPODA, CALANOIDA) (Limnological Institute SB RAS, Irkutsk, Russia)
- 15:45-16:00** Vitkovskaya I.A. DISTRIBUTION OF MIDGES (CHIRONOMIDAE, DIPTERA) ON TERRESTRIAL AREA AFTER THEIR EMERGENCE FROM SALINE LAKE SHIRA (Siberian Federal University, Krasnoyarsk, Russia)
- 16:00-16:15** **Coffee break (lobby, 7 floor, Molchanov-Sibirsky Library)**

Chairs: Secretary: Dulmaa A., Silow E.A. Volkova E.A.

- 16:15-16:30** Urabe M. EMERGENCE PATTERN OF FREE-CERCARIAE ALONG THE COAST OF LAKE CHANY, WESTERN SIBERIA: RELATIONSHIPS WITH WATER TEMPERATURE AND LIGHT CONDITIONS (School of environmental Science, the University of Shiga Prefecture, Japan)
- 16:30-16:45** Tanabe Yu. SEASONAL CHANGE OF PHOTOSYNTHESIS OF PHYTOBENTHIC COMMUNITIES IN ANTARCTIC LAKES (National Institute of Polar Research, Japan)

- 16:45-17:00** Selz O.M. DECIPHERING THE SPECIES DIVERSITY OF A PREALPINE WHITEFISH RADIATION (Swiss Federal Institute of Aquatic Science and Technology, Kastanienbaum, Switzerland, Aquatic Ecology and Evolution, Institute of Ecology and Evolution, the University of Bern, Bern, Switzerland)
- 17:00-17:15** Urgamal M. BIODIVERSITY OF WATER VASCULAR PLANTS OF MONGOLIA AND CONSERVATION STATUS (Institute of General and Experimental Biology, Mongolian Academy of Sciences)
- 17:15-17:30** Kanaya G. INTERANNUAL CHANGES IN $\delta^{15}\text{N}$ -BASELINE AND TROPHIC STRUCTURE IN A WEST SIBERIAN FOREST-STEPPE LAKE-SWAMP-STREAM FOOD WEB: COMPARISON BETWEEN DROUGHT AND FLOOD YEARS (National Institute for Environmental Studies, Japan)
- 17:30-17:45** Mitrofanova E.Yu. ALGAE AS ONE OF THE ELEMENTS OF ECOSYSTEM STABILITY IN DEEP OLIGOTROPHIC RESERVOIR (LAKE TELETSKOYE, ALTAI, AS A CASE OF STUDY) (Institute for Water and Environmental Problems SB RAS, Barnaul, Russia)
- 17:45-18:00** Bashenkhaeva M.V. COMPARATIVE ANALYSIS OF FREE-LIVING AND PARTICLE-ATTACHED BACTERIAL COMMUNITIES OF LAKE BAIKAL (Limnological Institute SB RAS, Irkutsk, Russia)
- 18:00-18:15** Koroleva I.M. THE FISH COMMUNITY OF LAKE IMANDRA: PAST AND PRESENT (Institute of North Industrial Ecology Problems – Kola Science Centre RAS, Apatity, Russia)
- 18:15-18:30** Baturina N. MACROZOOBENTHOS COMMUNITIES OF RIVERS AND STREAMS AT SOUTH SIBERIA MTS (Novosibirsk State University, Institute of Systematics and Ecology of Animals, Novosibirsk, Russia)

Session 3. Aquatic Organisms: Aspects of Physiology, Biochemistry and Genomics (Molchanov-Sibirsky Library, room 703, 7 floor)

Chairs: Sitnokova T.Ya., Prozorova L.A Secretary: Zimens E.A.

- 14:00-14:15** Radnaeva L.D., Taraskin V.V. LIPIDS OF DEEP WATER BAIKAL HYDROBIONTS (Baikal Institute of Nature Management SB RAS, Ulan-Ude, Russia)
- 14:15-14:30** Yakhnenko A.S. COMPARATIVE VARIABILITY ANALYSIS OF THE STANDARD 5'END PARTITION AND I3-M11 PARTITION OF THE COI GEN IN CLOSELY RELATED SPECIES OF BAIKALIAN SPONGES (Irkutsk State University, Irkutsk, Russia)
- 14:30-14:45** Anikienko I.V. ANATOMICAL PECULIARITIES OF BRUSH ARTERIUM ARCHERY ARCTICS OF BAIKAL SEAL (A.A. Ezhevsky Irkutsk State Agricultural University, Irkutsk, Russia)
- 14:45-15:00** Smeshlivaya N. THE SURVIVAL RATE IN EMBRYOGENESIS OF WHITE FISH HYBRIDS (FGUP “Gosrybcenter”, Tyumen, Russia)
- 15:00-15:15** Klimova Y.S. EFFECTS OF ANAXIA ON THE PARAMETERS OF OXIDATIVE STRESS OF *DREISSENA POLYMORPHA* AND *D. BUGENSIS* (Institute for Biology of Inland Waters, Borok, Russia)
- 15:15-15:30** Gurkov A.N. IN VIVO PH MONITORING IN THE CIRCULATORY SYSTEM OF FISHES AND CRUSTACEANS USING A MICROENCAPSULATED FLUORESCENT PROBE (Irkutsk State University, Baikal Research Centre, Irkutsk, Russia)
- 15:30-15:45** Shchapova E.P. BEHAVIOR OF NON-BIODEGRADABLE POLYELECTROLYTE MICROCAPSULES IN THE ORGANISM OF AMPHIPODS *E. VERRUCOSUS* AND FISHES *D. RERIO* (Irkutsk State University, Irkutsk, Russia)

15:45-16:00 Nazarova A.A. STUDY OF AMPHIPOD IMMUNE RESPONSE TO IMPLANTABLE OPTICAL MICROSENSORS USING PRIMARY CULTURE OF HEMOCYTES (Irkutsk State University, Irkutsk, Russia)

16:00-16:15 Coffee break (lobby, 7 floor, Molchanov-Sibirsky Library)

Chairs: Ryadinskaya N.I., Bolotova N.I. Secretary: Zimens E.A.

16:15-16:30 Bukin Yu.S. BARCODE DNA TO IDENTIFY SPECIES OF NONBITING MIDGES OF *CRICOTOPUS* (DIPTERA: CHIRONOMIDAE) (Limnological Institute SB RAS, Irkutsk, Russia)

16:30-16:45 Madyarova E.V. STABLE INDICATORS OF ENERGY METABOLISM AND NON-SPECIFIC STRESS-RESPONSE AS A STRATEGY OF BIOCHEMICAL ADAPTATION TO HABITATION IN WIDE RANGE OF DEPTHS IN EURYBATHIC BAIKAL AMPHIPODA OF GENUS *OMMATOGAMMARUS* (Institute of Biology, Irkutsk State University, Irkutsk, Russia)

16:45-17:00 Ryadinskaya N.I. ANATOMIC STUDIES OF ORGANISM OF THE BAIKAL SEAL (A.A. Ezhevsky Irkutsk State Agriculture University, Irkutsk, Russia)

17:00-17:15 Morozov A.A. INTRAGENIC DUPLICATIONS IN DIATOM *SYNEDRA ACUS* SUBSP. *RADIANS* (Limnological Institute SB RAS, Irkutsk)

17:15-17:30 Morozko A.V. COMPARATIVE CHARACTERISTICS FAUNA OF PARASITES OF UKLEYKA (*ALBURNUS ALBURNUS* (L, 1758) AND DACE (*LEUCISCUS LEUCISCUS BAICALENSIS* (DYB) FROM TOM RIVER OF KEMEROVO REGION (NF “Gosrybcentr”, Novosibirsk, Russia)

17:30-17:45 Zimens E.A. ENZYMIC ACTIVITY AND ANTIBIOTIC RESISTANCE OF BACTERIA ISOLATED FROM WATER AND BIOFILMS OF LAKE BAIKAL (Limnological Institute SB RAS, Irkutsk, Russia)

17:45-18:00 Sukhanova E.V. ZSEARCHING FOR MICROBIAL PRODUCERS OF BIOACTIVE METABOLITES FROM EPILITHIC BIOFILMS OF LAKE BAIKAL (Limnological Institute SB RAS, Irkutsk, Russia)

18:00-18:15 Vereshchagina K.P. ADAPTATION TO LOW TEMPERATURE AS A POSSIBLE KEY TO THE UNIQUENESS OF LAKE BAIKAL ENDEMIC AMPHIPODS (Institute of Biology at Irkutsk State University, Irkutsk, Russia)

18:15-18:30 Flerova E.A. FEATURES OF THE CELL MESONEPHROS ANADROMOUS SALMONID SPECIES (Yaroslavl Scientific Research Institute of livestock breeding and forage production – Federal Williams Research Center of Forage Production and Agroecology, Yaroslavl State University, Yaroslavl, Russia)

Session 4. Changes of Abiotic Components in Freshwater Ecosystems and Adjacent Landscapes (Molchanov-Sibirsky Library, room 403, 4 floor)

Chairs: Chuiko G.M., Makarov M.M. Secretary: Khuriganova O.I.

14:00-14:15 Molozhnikova Ye.V. ANALYSIS OF THE CHEMICAL COMPOSITION OF ATMOSPHERIC PRECIPITATIONS IN THE TERRITORY OF THE BAIKAL STATE NATURAL BIOSPHERE RESERVE (Limnological Institute SB RAS, Irkutsk, Russia)

14:15-14:30 Netsvetaeva O.G. ACCUMULATION OF BIOGENIC ELEMENTS IN SNOW COVERING OF SPECIALLY PROTECTED TERRITORIES OF PRIBAIKALYE (Limnological Institute SB RAS, Irkutsk, Russia)

14:30-14:45 Ksenofontova M.I. INTERACTION OF MICROELEMENTS IN THE SYSTEM OF SOIL – BOTTOM SEDIMENTS - LAKE WATERS IN THE CLOSED ALAS ECOSYSTEMS OF CENTRAL YAKUTIA (Institute of Applied Ecology of the North NEFU, Yakutsk)

- 14:45-15:00** Sorokovikova L.M. SILICON INFLUX IN LAKE BAIKAL WITH THE SELENGA RIVER AND ITS TRANSFORMATION IN THE RIVER-LAKE MIXING ZONE (Limnological Institute SB RAS, Irkutsk, Russia)
- 15:00-15:15** Chuparina E.V. ACCUMULATION OF METALS BY MACROPHYTES IN THE BRATSK WATER RESERVOIR (Vinogradov Institute of Geochemistry SB RAS, Irkutsk, Russia)
- 15:15-15:30** Makarov M.M. BUBBLE GAS SEEPS FROM THE BOTTOM SEDIMENTS OF LAKE BAIKAL: CURRENT STATE (Limnological Institute SB RAS, Irkutsk, Russia)
- 15:30-15:45** Shiretorova V.G. CHEMICAL COMPOSITION OF WATER AND SEDIMENTS OF THE BARGUZIN RIVER AND ITS TRIBUTARIES (Baikal Institute of nature management SB RAS, Ulan-Ude, Russia)
- 15:45-16:00** Chuiko G.M. MODERN APPROACH FOR THE DETERMINATION OF AREAS OF WATER BODIES CONTAMINATED WITH POPs (PCB, DDT AND ITS METABOLITES, HCCH ISOMERS) FROM ORGANIZED LOCAL SOURCES AND DIFFUSIVE RUNOFF (Papanin Institute for Biology of Inland Waters RAS, Borok and Demidov Yaroslavl State University, Yaroslavl, Russia)
- 16:00-16:15** **Coffee break (lobby, 7 floor, Molchanov-Sibirsky Library)**

Chairs: Mizandrontsev I.B., Troitskaya E.S. Secretary: Khuriganova O.I.

- 16:15-16:30** Suslayev V.I. MICROWAVE ELECTROPHYSICAL PROPERTIES OF WATER OBJECTS OF WESTERN SIBERIA (Tomsk State University, Russia)
- 16:30-16:45** Konstantinova E.A. THE CULTIVATION OF *LUBOMIRSKIA BAICALENSIS* IN TERMS OF COLD-WATER AQUASTEAM (Limnological Institute SB RAS, Irkutsk, Russia)
- 16:45-17:00** Savchenko N.V. MODERN ECOLOGICAL CONDITION OF ASIAN SUB-ARCTIC LAKES BY GEOCHEMISTRY MONITORING RESULTS (Novosibirsk State Agrarian University, Novosibirsk, Russia)
- 17:00-17:15** Zolnikova I.F. USE OF MORPHOLOGICAL METHODS IN GEOECOLOGICAL RESEARCHES OF THE BAIKAL REGION (A.A. Ezhevsky Irkutsk State Agricultural University, Irkutsk, Russia)
- 17:15-17:30** Aslamov I.A. THE RESULTS OF THE HEAT FLUX STUDIES AT THE WATER-ICE BOUNDARY LAYER OF LAKE BAIKAL (Limnological Institute SB RAS, Irkutsk, Russia)
- 17:30-17:45** Golobokova L.P. LONG-TERM RESEARCH OF DRIVE AEROSOL OVER BAIKAL AQUATORIES (2010-2017) (Limnological Institute SB RAS, Irkutsk, Russia)
- 17:45-18:00** Mizandrontsev I.B. MEASURING OF THE DISSOLVED METHANE NANOCONCENTRATION IN WATER COLUMN OF LAKE BAIKAL (Limnological Institute SB RAS, Irkutsk, Russia)
- 18:00-18:15** Troitskaya E.S. DESCRIPTION OF SHORT-TERM OSCILLATIONS OF WATER TEMPERATURE IN SOUTHERN BAIKAL IN DIFFERENT PERIODS BY RESULTS OF SPECTRAL ANALYSIS (Limnological Institute SB RAS, Irkutsk, Russia)
- 18:15-18:30** Izosimova O.N. A METHOD FOR CONTROL OF POLYCYCLIC AROMATIC HYDROCARBONS IN THE LAKE BAIKAL WATER (Limnological Institute SB RAS, Irkutsk, Russia)

Session 5. Paleolimnology, Evolution of Lake Ecosystems and Reconstruction of Environmental and Climatic Changes in the Past (Molchanov-Sibirsky Library, room 404, 4 floor)

Chairs: Puzanov A.V., Pozdnyakov Sh. Secretary: Zhuchenko N.A.

14:00-14:15 Stepanova O.G. PALEOCLIMATE RECORDS OF THE HOLOCENE INFERRED FROM PROGLACIAL LAKE BOTTOM SEDIMENTS OF EAST SIBERIA (Limnological Institute SB RAS, Irkutsk, Russia)

14:15-14:30 Osipov E.Y. RECONSTRUCTION OF THE LITTLE ICE AGE GLACIERS IN THE KODAR RANGE, SOUTHEAST SIBERIA (Limnological Institute SB RAS, Irkutsk, Russia)

14:30-14:45 Osipov E.Y. SUBMERGED SHORELINES IN SOUTHERN BAIKAL AND LAKE LEVEL CHANGES DURING THE LATE PLEISTOCENE-HOLOCENE (Limnological Institute SB RAS, Irkutsk, Russia)

14:45-15:00 Ovdina E.A. THE CARBONATES FORMATION ON THE ENVIRONMENT BOUNDARIES IN THE HOLOCENE SEDIMENTS OF SMALL LAKES OF SIBERIA (The V.S. Sobolev Institute of Geology and Mineralogy SB RAS, Novosibirsk, Russia)

15:00-15:15 Usoltseva M.V. FOSSIL DIATOMS IN NEOGENE PALEOLAKES OF THE BAIKAL RIFT (Limnological Institute SB RAS, Irkutsk, Russia)

15:15-15:30 Sidorova T.V., Sukhanova L.V. IS OMUL FROM VERKHNEKICHERA LAKES A RELICT OF THE GLACIAL PERIOD IN THE LAKE BAIKAL BASIN? (Limnological Institute SB RAS, Irkutsk, Russia)

15:30-15:45 Kazakov A.V. GEOINFORMATION MAPPING OF THE BOTTOM RELIEF OF LAKE BAIKAL (Limnological Institute SB RAS, Irkutsk, Russia)

15:45-16:00 Kononov E.E. RIFTOGENIC RELIEF OF SOUTHERN BAIKAL AND ITS MODELING WITH MODERN SEISMOGENIC AND UNDERWATER GRAVITATIONAL PROCESSES (Limnological Institute SB RAS, Irkutsk, Russia)

16:00-16:15 Coffee break (lobby, 7 floor, Molchanov-Sibirsky Library)

Chairs: Bezmaternykh D., Strakhovenko V.D. Secretary: Zhuchenko N.A.

16:15-16:30 Strakhovenko V.D. MINERALOGICAL AND GEOCHEMICAL STUDIES OF LATE HOLOCENE BOTTOM SEDIMENTS OF LAKE ONEGA (V.S. Sobolev Institute of Geology and Mineralogy RAS, Novosibirsk, Russia)

16:30-16:45 Saydakova L.A. GEOCHEMICAL CHANGES IN LAKE ECOSYSTEMS OF SOUTH WEST SIBERIA FOR THE LAST 50 YEARS (Novosibirsk Teachers' Upgrading and Retraining Institute, Novosibirsk, Russia)

13 September, Thursday

09:00-18.00 International Scientific School “Modern Limnology at the Intersection of Disciplines” (conference hall, LIN SB RAS):

Chairs: Annenkov V., Hecky R. Secretary: Bedoshvili E.

- 09:00-09:20 Annenkov V.** HOW LIVING SILICIFYING ORGANISMS BUILD SILICA CONSTRUCTIONS AT MODERATE CONDITIONS? (Limnological Institute SB RAS, Irkutsk, Russia)
- 09:20-09:40 Drucker V.** AUTOCHTHONOUS BACTERIOPHAGES AND BACTERIOPLANKTON IN WATER BODIES OF KHUVSGUL-BAIKAL-ANGARA-YENISEI HYDROSYSTEM (Limnological Institute SB RAS, Irkutsk, Russia)
- 09:40-10:00 Belykh O.** TOXIC CYANOBACTERIA IN LAKE BAIKAL AND WATERS OF BAIKAL REGION (Limnological Institute SB RAS, Irkutsk, Russia)
- 10:00-10:20 Panchenko M.** CO₂ IN THE “ATMOSPHERE-WATER” SYSTEM AND BIOGENIC ELEMENTS IN WATER OF THE LITTORAL ZONE OF LAKE BAIKAL AT THE PRESENT STAGE OF CLIMATE CHANGES (V.E. Zuev Institute of Atmospheric Optics SB RAS, Tomsk, Russia)
- 10:20-10:40 Sinyukovich V.** WATER REGIME OF LAKE BAIKAL UNDER CONDITIONS OF CLIMATE INSTABILITY AND ANTHROPOGENIC IMPACT (Limnological Institute SB RAS, Irkutsk, Russia)
- 10:40-11:00 Shimaraev M.** CHANGES OF ICE-THERMAL AND WATER REGIMES OF LAKE BAIKAL (Limnological Institute SB RAS, Irkutsk, Russia)
- 11:00-11:20 Coffee break** (lobby near the conference hall, LIN SB RAS)

Chairs: Yamamuro M., Timoshkin O. Secretary: Bedoshvili E.

- 11:20-11:40 Gorshkov A.** PERSISTENT ORGANIC POLLUTANTS IN THE ECOSYSTEM OF LAKE BAIKAL (20 YEARS LATER) (Limnological Institute SB RAS, Irkutsk, Russia)
- 11:40-12:00 Bedoshvili E.** CELL BASIS OF MORPHOGENESIS IN SILICEOUS VALVES OF DIATOMS (Limnological Institute SB RAS, Irkutsk, Russia)
- 12:00-12:20 Kirilchik S.** SPECIFIC EVOLUTION OF BAIKAL SCULPINS (Limnological Institute SB RAS, Irkutsk, Russia)
- 12:20-12:40 Timoshkin O.** THE OLDEST LAKE OF THE PLANET (LAKE BAIKAL) EXPERIENCES RAPID ECOLOGICAL CHANGES IN THE COASTAL ZONE (Limnological Institute SB RAS, Irkutsk, Russia)
- 12:40-13:00 Yamamuro M.** GREEN TIDE FROM SEA COASTS TO FRESHWATER LAKES (Graduate School of Frontier Sciences, the University of Tokyo, Kashiwa, Japan)

13:00-14:00 Lunch (canteen at Institute of Solar-Terrestrial Physics, 126-a, Lermontov St.; canteen at LIN SB RAS; Cafe “Ezhevika”, 2, Ulan-Batorskaya St.)

Chairs: Guildford S., Raynaud D. Secretary: Sapozhnikova Yu.

- 14:00-14:20 Hecky R.** THE DEEP CHLOROPHYLL LAYER IN LAKE SUPERIOR AND ITS PHOTOSYNTHETIC ACTIVITY (Journal of Great Lakes Research, the University of Minnesota, Duluth, Minnesota, USA)
- 14:20-14:40 Guildford S.** PHYTOPLANKTON NUTRIENT STATUS IN THE DEEP CHLOROPHYLL LAYER OF LAKE SUPERIOR (Dept. of Biology and Large Lakes Observatory, the University of Minnesota, Assistant Editor, Journal of Great Lakes Research, Duluth, Minnesota, USA)
- 14:40-15:00 Astel A.** AQUATIC CHEMISTRY OF SEVERAL COASTAL LAKES IN THE SOUTHERN BALTIC AREA (Pomeranian University in Slupsk, Slupsk, Poland)

- 15:00-15:20** **Sterner R.** TEMPERATURE DEPENDENCE OF PRIMARY PRODUCTION AND THE DEEP CHLOROPHYLL MAXIMUM STRUCTURE IN LAKE SUPERIOR: PROJECTIONS FOR CLIMATE WARMING IN LARGE, DEEP, COLD LAKES (Large Lakes Observatory at the University of Minnesota Duluth, USA)
- 15:20-15:40** **Raynaud D.** COUPLING GREENHOUSE GASSES AND CLIMATE HISTORY (National Research Center in Grenoble, France)
- 15:40-16:00** **Wiśniewski R.** RESTORING URBAN LAKE WOLSZTYNSKIE USING PRECISE APPLICATION OF COAGULANT DIRECTLY TO SEDIMENT DURING ITS CONTROLLED RESUSPENSION (Department of Hydrobiology, Kazimierz Wielki University in Bydgoszcz, Bydgoszcz, Poland)
- 16:00-16:20** **Coffee break** (lobby near the conference hall, LIN SB RAS)

Chairs: Sturm M., Sterner R. Secretary: Sapozhnikova Yu.

- 16:20-16:40** **Sturm M.** LONG-TERM PARTICLE VARIABILITY WITHIN THE WATER COLUMN OF LAKE BAIKAL (Eawag, Dubendorf, Switzerland)
- 16:40-17:00** **Massol F.** NETWORK METHODS FOR THE ANALYSIS OF HOST-SYMBIOT INTERACTIONS: AN EXAMPLE WITH *DAPHNIA MAGNA* AND ITS GUT MICROBIOTA (National Center for Scientific Research, Lille, France)
- 17:00-17:20** **Niska M.** ENVIRONMENTAL CHANGES IN THE EEMIAN (MIKULINIAN, MIS 5E) RECORDED IN THE LAKE-MIRESEDIMENT SUCCESSION FROM CENTRAL POLAND (CENTRAL EUROPE) BASED ON SUBFOSSIL CLADOCERA ANALYSIS (Pomeranian University in Słupsk, Institute of Geography and Regional Studies, Poland)
- 17:20-17:40** **Tanaka Y.** BAIKAL COASTAL WATER TEMPERATURE FLUCTUATIONS CAUSED BY OFFSHORE EVENT (Tokyo University of Marine Science and Technology, Japan)
- 17:40-18:00** **Dulmaa A.** THE CURRENT STATE OF ZOOPLANKTON IN LAKE ULAAGCHINY KHAR (Institute of General and Experimental Biology)

18:15-19:00 POSTER SESSION (lobby in Molchanov-Sibirsky Library, 7 floor)

18:15-19:00 Excursion to Molchanov-Sibirsky Irkutsk Scientific Library

19:00-20:00 Dinner (cafe “Ezhevika”, 2, Ulan-Batorskaya St.; cafe in Molchanov-Sibirsky Library; canteen at LIN SB RAS).

20:30-21:30 Documentary films from the programme of Baikal International Film Festival «People and Environment» (conference hall, LIN SB RAS).

13 September, Thursday

Poster Session

(lobby in Molchanov-Sibirsky Library, 7 floor)

1. Antokhina O.Yu., Antokhin P.N., Devyatova E.V., Mordvinov V. SCENARIOS OF BLOCKING EVENTS DEVELOPMENT OVER EURASIA AND ANALYSIS OF THEIR EFFECT ON TOTAL AMOUNT OF PRECIPITATION IN THE SELENGA RIVER BASIN (V.E. Zuev Institute of Atmospheric Optics SB RAS, Tomsk, Russia)
2. Antokhina O.Yu., Belan B.D., Buryak G.A., Generalov V.M., Golobokova L.P., Ivlev G.A., Kozlov A.V., Laptev N.A., Olkin S.E., Otmakhov V.I., Pestunov D.A., Petrova E.V., Rasskazchikova T.M., Safatov A.S., Simonenkov D.V., Tolmachev G.N., Fofonov A.V. ASSESSMENT OF THE EXTENT OF BAIKAL LAKE POLLUTION FROM THE ATMOSPHERE ON THE AIRBORNE SAMPLING RESULT BY THE AIRCRAFT SOUNDING (V.E. Zuev Institute of Atmospheric Optics SB RAS, Tomsk, Russia)
3. Axenov-Gribanov D.V., Protasov E.S., Kostka D.V., Krasnova M.E., Dmitriev I.A., Rzhchitsky Ya.A., Lubyaga Yu.A., Timofeyev M.A. DIVERSITY ASSESSMENT OF ACTINOBACTERIA ASSOCIATED WITH BAIKAL ENDEMIC ALGAE (Irkutsk State University, Irkutsk, Russia)
4. Baturina M.A. TO THE STUDY OF OLIGOCHAETA FAUNA OF LAKES OF BOL'SHEZEMEL'SKAYA TUNDRA (Institute of Biology Komi SC URD RAS, Syktyvkar, Russia)
5. Belkina N.A., Strahovenko V.D., Kulik N.V., Efremenko N.A., Subetto D.A. FORMATION OF THE CHEMICAL COMPOSITION OF MODERN LACUSTRINE DEPOSITS OF ONEGO LAKE (Northern Water Problems Institute KarRC RAS, Petrozavodsk, Russia)
6. Bessudova A.Yu., Firsova A.D. SCALED CHRYSOPHYTES AND THEIR STOMATOCYSTS IN THE MOUTHS OF THE KICHERA AND THE UPPER ANGARA RIVERS AND IN THE CHANNELS OF THE NORTH BAIKAL SOR (Limnological Institute SB RAS, Irkutsk, Russia)
7. Blinov V.V., Granin N.G., Mizandrntsev I.B., Tomberg I.V., Sinyukovich V.N., Gnatovsky R.Yu., Zhdanov A.A. THE INCREASE OF MINERALIZATION IN UNDER-ICE LAYER OF WATER IN SOUTHERN BAIKAL, ION BALANCE (Limnological Institute SB RAS, Irkutsk, Russia)
8. Bogdanov B.E., Teterina V.I., Kirilchik S.V. ECOLOGICAL FORMS OR YOUNG SPECIES: THE PHENOMENON OF MODERN SPECIATION IN LAKE BAIKAL USING THE EXAMPLE OF COTTOID FISH OF GENERA *CYPHOCOTTUS* AND *BATRACHOCOTTUS* (Limnological Institute SB RAS, Irkutsk, Russia)
9. Bondarenko N., Vorobyova S., Zhuchenko N., Golobokova L. A CURRENT STATE OF LAKE BAIKAL COASTAL PHYTOPLANKTON, SPRING 2017 (Limnological Institute SB RAS, Irkutsk, Russia)
10. Chekmareva E.A. THERMOVISION SURVEY ON WATER OBJECTS: ADVANTAGES AND DISADVANTAGES (Branch of the Institute of Water Problems RAS, Ivankovskaya NIS, Konakovo, Russia)
11. Gaevski N.A., Belykh O.I., Gorbaneva T.B., Andronov K.Yu. VERTICAL DISTRIBUTION OF PHYTOPLANKTON'S FLUORESCENCE AND EFFICIENCY OF THE PHOTOSYSTEM II IN THE SOUTHERN AND CENTRAL PARTS OF BAIKAL LAKE (Siberian Federal University, Krasnoyarsk, Russia, Limnological Institute SB RAS, Irkutsk, Russia)
12. Galakhina N.E., Lozovik P.A. POLLUTION OF WATER BODIES AND RATIONING THE PERMISSIBLE ANTHROPOGENIC LOAD ON THEM TAKING INTO ACCOUNT REGIONAL PECULIARITIES OF SURFACE WATER (Northern Water Problems Institute KarRC RAS, Petrozavodsk, Russia)

13. Golova V.G., Mikhailova L.V., Bondar' M.S. DEPENDENCE OF TAXONOMIC COMPOSITION AND QUANTITATIVE INDICATORS OF MACROSOOBENTOS ON TYPE AND POLLUTION OF BOTTOM SEDIMENTS INTRA-BOG LAKES IN MIDDLE OB REGION (State Scientific & Production Center of Fishery, HE State Agricultural University of the Northern Trans-Urals, Tuymen, Russia)
14. Goncharov A.V., Marynskiy V.V., Chalov S.R. BIOLOGICAL INDICATION OF POLLUTION OF SELENGA RIVER IN THE AREA OF ULAN-UDE AND MODONKUL RIVER IN ZAKAMENSK – FROM THE STATE OF BOTTOM BIOCEANOSES (M.V. Lomonosov Moscow State University, Moscow, Russia)
15. Diaz-de-Quijano D., Ivanova EA, Anischenko O.V. ATMOSPHERIC NITROGEN DEPOSITION AND ITS EFFECTS ON ERGAKI MOUNTAIN LAKES (WEST SAYAN MOUNTAINS) (Siberian Federal University, Krasnoyarsk, Russia)
16. Drozdova P., Bedulina D., Saranchina A., Timofeyev M. SEARCH FOR MOLECULAR MECHANISMS OF THE BODY COLORATION OF *EULIMNOGAMMARUS CYANEUS* (DYBOWSKY, 1874) (Institute of Biology at Irkutsk State University, Irkutsk, Russia)
17. Dyomin V.V., Davydova A.Yu., Morgalev Yu.N., Olshukov A.S., Polovtsev I.G. MONITORING OF PLANKTON MOTOR ACTIVITY WITH THE USE OF DIGITAL HOLOGRAPHY AS A TECHNIQUE FOR BIOINDICATION OF WATER ECOSYSTEMS POLLUTION (National Research Tomsk State University, Tomsk, Russia)
18. Fedorov Yu.A., Dmitrik L.Yu., Nazarenko O.V., Predeina L.M., Dotsenko I.V. IRON: FORMS OF MIGRATION AND STAY IN THE WATER FOR MEGAPROFIL «MINE WATER – THE RIVER DON AND AZOV SEA» (Southern Federal University, Hydrochemical Institute, Rostov on Don, Russia)
19. Fefilova E.B., Evstigneeva T.D., Mayor T.Yu. BAIKAL HARPACTICIDS (CRUSTACEA: COPEPODA: HARPACTICOIDA): RESEARCH PROMISES (Institute of Biology of Komi Scientific Centre UB RAS, Syktyvkar, Russia)
20. Ibragimova A.G., Frolova L.A., Kosareva L.R., Nurgaliev D.K. RECONSTRUCTION OF THE PAST CONDITIONS OF IVANOVO REGION USING SUBFOSSIL CLADOCERA ANALYSIS OF LAKE RUBSKOYE (Kazan (Volga region) Federal University, Kazan, Russia)
21. Ieshko E.P., Murzina S.A., Shchurov I.L., Shirokov V.A., Zotin A.A. FRESHWATER PEARL MUSSEL *MARGARITIFERA MARGARITIFERA* L. IN THE MUTKAJOKI RIVER (PAANAJARVI NATIONAL PARK) (Institute of Biology of the KarRC RAS, Northern Research Institute of fisheries, Petrozavodsk, Koltzov Institute of Developmental Biology RAS, Moscow, Russia)
22. Izimetova M.F. HYDROCHEMICAL REGIME OF SOME BRACKISH AND SALINE LAKES OF THE CHELYABINSK REGION (Ural Branch of Federal State Budgetary Scientific Institution “State Scientific-and-Production Center of Fishery”, Ekaterinburg, Russia)
23. Kalinkina N.M., Sidorova A.I. INVASION OF BAIKALIAN AMPHIPOD *GMELINOIDES FASCIATUS* STEBBING INTO LAKE ONEGO: ADAPTATION AND FUNCTIONING (Northern Water Problems Institute KarRC RAS, Petrozavodsk, Russia)
24. Kalitina E.G., Kharitonova N.A. MICROBIAL COMMUNITY OF THE KULDUR HOT SPRINGS AND THEIR ROLE IN THE ACCUMULATION OF TRACE ELEMENTS AND MINERAL FORMATION (Far East Geological Institute FEB RAS, Vladivostok, Lomonosov Moscow State University, Moscow, Russia)
25. Karnaukhov D.Yu., Dolinskaya E.M., Biritskaya S.A., Silov E.A. SOME FEATURES OF THE HORIZONTAL MIGRATORY ACTIVITY OF THE PELAGIC AMPHIPOD *MACROHECTOPUS BRANICKII* (DYB.) IN THE LITTORAL ZONE OF LAKE BAIKAL (Irkutsk State University, Irkutsk, Russia)
26. Karnaukhov D.Yu., Rusanovskaya O.O., Shimaraeva S.V., Silov E.A. DYNAMICS OF THE PELAGIC AMPHIPOD *MACROHECTOPUS BRANICKII* (DYB.) NUMBERS AT THE PELAGIC STATIONARY POINT OF LAKE BAIKAL (Irkutsk State University, Irkutsk, Russia)

27. Kokryatskaya N.M., Titova X.V., Shevchenko V.P., Vakhrameeva E.A. DIAGENESIS OF BOTTOM SEDIMENTS OF LAKES OF THE VAIGACH ISLAND (N. Laverov Federal Center for Integrated Arctic Research RAS, Arkhangelsk, Russia)
28. Kolpakova E., Shvetsova N. CHLOROPHENOL COMPOUNDS IN FRESHWATER LAKES OF THE EUROPEAN FAR NORTH (N. Laverov Federal Center for Integrated Arctic Research RAS, Arkhangelsk, Russia)
29. Koroleva A.G., Zaytseva E.P., Porfiriev A.G., Kirilchik S.V., Timoshkin O.A. MORPHOLOGY AND MOLECULAR BIOLOGY OF THE ENDEMIC BAIKAL PLANARIA *BAIKALOBIA RADDEI* (Plathelminthes, Tricladida) (Limnological Institute SB RAS, Irkutsk, Russia)
30. Kouřil J., Podhorec P. ARTIFICIAL PROPAGATION OF ASP (*ASPIUS ASPIUS*) FROM ZELIVKA DAM WITH USING HORMONAL STIMULATION (University of South Bohemia in Ceske Budejovice, Faculty of Fisheries and Protection of Waters, Husova, Czech Republic)
31. Kovalenko A.I., Knyazeva N.S., Kudryavtsev A.A. THE CHEMICAL COMPOSITION OF BOTTOM SEDIMENTS FROM TAIGA LAKES IN THE AREAS OF INTENSIVE OIL MINING IN THE KHANTY-MANSIYSK AUTONOMOUS OKRUG – UGRA (KhMAO) (“Gosrybcenter”, Tyumen, Russia)
32. Kulakova N.V., Bukin Yu.S., Kashin S.A. THE STUDY OF GENETIC DIVERSITY OF MEMBERS OF TREBOUXIOPHYCEAE BY USING NUCLEAR AND CHLOROPLAST MOLECULAR MARKERS (Limnological Institute SB RAS, Irkutsk, Russia)
33. Khludnev G.B., Yuriev A.L. BIOLOGY OF NORTHERN PIKE IN THE IRKUTSK RESERVOIR (Irkutsk State University, Irkutsk, Russia)
34. Lipko I.A., Krasnopeeov A.Yu., Tikhonova I.V., Belykh O.I. PHYLOGENETIC DIVERSITY OF ACTINOBACTERIA IN LAKE BAIKAL: COMPARISON BETWEEN WATER AND SPONGES (Limnological Institute SB RAS, Irkutsk, Russia)
35. Magritskiy D.V., Eldarov E.M. HYDROLOGICAL AND MORPHOLOGICAL DEGRADATION OF UNIQUE LAKE SOUTH AGRAKHAN ANS WAYS OF ITS RESCUE (Lomonosov Moscow State University, Moscow, Russia, Dagestan State University, Makhachkala, the Republic of Dagestan)
36. Marchenkov A.M., Bedoshvili Ye.D. VALVE MORPHOGENESIS OF *SYNEDRA ULNA* SUBSP. *DANICA* IN THE SYNCHRONIZED CULTURE (Limnological Institute SB RAS, Irkutsk, Russia)
37. Morozov A.A., Galachyants Yu.P. THE SEARCH FOR INCORRECTLY ASSEMBLED REPEATS IN *SYNEDRA ACUS* SUBSP. *RADIANS* GENOME (Limnological Institute SB RAS, Irkutsk, Russia)
38. Naumova E.Yu., Zaidykov I.Yu. CHANGES IN THE COMPOSITION OF THE SPRING ZOOPLANKTON OF LAKE BAIKAL (Limnological Institute SB RAS, Irkutsk, Russia)
39. Naumova T.V., Gagarin V.G. ECOLOGY OF FREE-LIVING NEMATODES (NEMATODA) OF LAKE BAIKAL (Limnological Institute SB RAS, Irkutsk, Russia)
40. Natyaganova A.V., Mincheva E.V., Kravtsova L.S., Peretolchina T.E., Bukin Yu.S., Triboy T.I. ON CHROMOSOME NUMBER (2N) OF AN AQUATIC PLANT *ELODÉA CANADÉNSIS* MICHX. FROM THE SIBERIAN WATER BODIES (Limnological Institute SB RAS, Irkutsk, Russia)
41. Obolkin V.A., Bondarenko N.A., Volkova E.A., Netsvetaeva O.G., Chebunina N.S., Okane D., Ohira S., Toda K. PECULIARITIES OF BIOLOGY OF DINOPHYTA ALGAE FROM OBSERVATION AT LISTVENNICHNOYE BAY, SOUTH BAIKAL (Limnological Institute SB RAS, Irkutsk, Russia)
42. Paradina L.F., Pavlova L.A., Chuparina E.V., Rozhkova N.A., Suturen A.N. ESTIMATION OF THE ACCUMULATING ABILITY OF BOTTOM INVERTEBRATE LITHORERS OF SOUTH BAIKAL (Limnological Institute SB RAS, Irkutsk, Russia)
43. Podlesnaya G.V., Suslova M.Yu., Shtykova Yu.R., Belykh O.I. CHARACTERIZATION OF DENITRIFYING BACTERIA FROM BIOFILMS OF THE LITTORAL ZONE OF LAKE BAIKAL (Limnological Institute SB RAS, Irkutsk, Russia)

44. Protasov E.S., Aksenov-Gribanov D.V., Krasnova M.E., Timofeev M.A. COMPARATIVE ANALYSIS OF BIOSYNTHETIC POTENTIAL OF ACTINOBACTERIA ISOLATED FROM DIFFERENT ECOLOGICAL NICHES OF LAKE BAIKAL (Irkutsk State University, Irkutsk, Russia)
45. Sakirko M.V., Domysheva V.M., Khodzher T.V. SILICON IN LAKE BAIKAL (Limnological Institute SB RAS, Irkutsk, Russia)
46. Sapelko T., Terekhov A., Gazizova T., Kuznetsov D., Korneenkova N., Ludikova A., Anisimov M. PALAEO-LIMNOLOGY OF LUNKULANSAARI ISLAND, LAKE LADOGA: PRELIMINARY RESULTS (Institute of Limnology RAS, St. Petersburg State University, St. Petersburg, Russia)
47. Savkin V.M., Dvurechenskaya S.Ya., Kondakova O.V. DYNAMICS OF THE HYDROLOGICAL-HYDROCHEMICAL REGIME OF THE UPPER OB UNDER ANTHROPOGENIC IMPACT (Institute of Water and Environmental Problems SB RAS, Novosibirsk, Russia)
48. Semenova L.A. PHYTOPLANKTON OF KAMENNAYA BAY (GULF OF OB, KARA SEA) DURING UNDER THE ICE PERIOD (“Gosrybcenter”, Tyumen, Russia)
49. Stepanova V.B. MACROZOOBENTHOS OF YAMAL LAKES IN THE BUILDING AREA OF THE SEA PORT (“Gosrybcenter”, Tyumen, Russia)
50. Sherstyankin P.P., Shimarayev M.N., Potemkin V.L., Kuimova L.N. EQUATIONS OF DEEP WATER STATUS, VERTICAL STABILITY AND BRUNT-VÄISÄLÄ FREQUENCY: A CASE STUDY FOR LAKE BAIKAL (Limnological Institute SB RAS, Irkutsk, Russia)
51. Sherstyankin P.P., Shimarayev M.N., Potemkin V.L., Kuimova L.N. SIMILARITIES AND DISSIMILARITIES OF TEMPERATURE REGIME OF LAKE BAIKAL AND THE SUBGLACIAL OCEAN OF EUROPA – ONE OF THE JUPITER’S MOON (Limnological Institute SB RAS, Irkutsk, Russia)
52. Shirokova Yu.A., Madyarova E.V., Vereshchagina K.P., Shatilina Zh.M., Timofeyev M.A. THE INFLUENCE OF GRADUAL CHANGE IN AMBIENT TEMPERATURE ON THE LIPID PEROXIDATION PROCESS OF BAIKAL DEEPWATER AMPHIPODS *OMMATOGAMMARUS FLAVUS* (Institute of Biology, Irkutsk State University, Irkutsk, Russia)
53. Shorina N.V., Klimov S.I., Haipova A.H. DYNAMICS OF IRON DISTRIBUTION IN THE BOREAL ARCTIC RIVER SEVERNAYA DVINA (Federal Center for Integrated Arctic Research RAS, M.V. Lomonosov Northern Arctic Federal University, Arkhangelsk, Russia)
54. Shtykova Yu.R., Krasnopeev A.Yu., Potapov S.A., Sitnikova T.Ya., Belykh O.I. METAGENOMIC ANALYSIS OF THE BACTERIAL COMMUNITY OF THE DIGESTIVE SYSTEM OF ENDEMIC BAIKAL GASTROPODS *BENEDICTIA BAICALENSIS* (Limnological Institute SB RAS, Irkutsk, Russia)
55. Sorokovikova L.M., Onishchuk N.A., Bashenkhayeva N.V., Sakirko M.V., Tomberg I.V., Pogodaeva T.V., Sezko N.P., Marinaite I.I., Zhuchenko N.A. CHEMICAL COMPOSITION AND WATER QUALITY OF THE BOGUCHANSK RESERVOIR IN THE FIRST YEARS OF FILLING (Limnological Institute SB RAS, Irkutsk, Russia)
56. Suslova M.Yu., Tsydyпова S.B., Grebenschikova V.I. CHEMICAL AND MICROBIOLOGICAL COMPOSITION OF WATER SOURCE OF ANGARA IN 2017 (Limnological Institute SB RAS, Irkutsk, Russia)
57. Titova L.A., Usoltseva M.V. SEASONAL DYNAMICS OF BAIKAL PHYTOPLANKTON IN 2017 (Limnological Institute SB RAS, Irkutsk, Russia)
58. Titova L.A., Usoltseva M.V. SPRING PHYTOPLANKTON OF PELAGIC ZONE OF BAIKAL LAKE IN 2013-2016 (Limnological Institute SB RAS, Irkutsk, Russia)
59. Tyagun M.L., Sapozhnikova Yu.P., Sukhanova L.V., Glyzina O.Yu., Yakhnenko V.M. ABERRATION OF FISH OTOLITHS AS ADAPTATION FOR DIFFERENT DEPTHS (Limnological Institute SB RAS, Irkutsk, Russia)
60. Tyagun M.L. THE MORPHS OF THE OTOLITHS OF *PARACOTTUS KNERII* AND *LEOCOTTUS KESSLERII*, AS A RESULT OF THE GENERAL ADAPTIVE VARIABILITY (Limnological Institute SB RAS, Irkutsk, Russia)

61. Ushakov M.V. CLIMATIC CHANGES OF THE MINIMUM DAY FLOW FOR A SUMMER-AUTUMN PERIOD ON THE RIVERS OF THE NORTH PRIOKHOTOMORIE (N.A. Shilo North-East Interdisciplinary Scientific Research Institute, Far East Branch, RAS, Magadan, Russia)
62. Uskova S.S., Martynova A.V., Generalov M.A., Adilgireev N.A., Hasbolatov R.I. INDICATION OF ENTEROCOCCI STRAINS IN SANITARY MICROBIOLOGY STUDY OF WATER OF VLADIVOSTOK (Far Eastern Federal University, Vladivostok, Russia)
63. Vakhrameeva E.A., Kokryatskaya N.M. GRANULOMETRIC COMPOSITION OF BOTTOM SEDIMENTS OF LAKES (N. Laverov Federal Center for Integrated Arctic Research RAS, Arkhangelsk, Russia)
64. Vologina E.G., Sturm M., Astakhov A.S., Shi Xuefa IMPACT OF ANTHROPOGENIC INFLUENCE AND CLIMATE CHANGES ON RECENT BOTTOM SEDIMENTS (Institute of the Earth's Crust of the SB RAS, Russia)
65. Vorobyova S.S., Fedotov A.P. DIATOM RECORDS OF THE HOLOCENE SEDIMENTS FROM THE LAKES OF EAST SIBERIA AS INDICATORS OF ENVIRONMENTAL CHANGES (Limnological Institute SB RAS, Irkutsk, Russia)
66. Yakhnenko V.M., Klimenkov I.V., Sudakov N.P., Glyzina O.Yu., Sapozhnikova Yu.P., Tyagun M.L., Avezova T.N., Kondratov I.G., Batudaeva A.K., Sukhanova L.V. MORPHOFUNCTIONAL FEATURES OF OXYGEN TRANSPORT SYSTEM IN PELED (*COREGONUS PELED*), OMUL (*C. MIGRATORIUS*) AND THEIR HYBRIDS IN THE BELAYA RIVER (Limnological Institute SB RAS, Irkutsk, Russia)
67. Yeletskaia E.V., Titova L.A., Bashenkhayeva M.V. SPATIAL DISTRIBUTION OF OXYGEN, NUTRIENTS, PHYTOPLANKTON AND BACTERIA IN SOUTHERN BAIKAL DURING ICE COVER PERIOD (Limnological Institute SB RAS, Irkutsk, Russia)
68. Yurlova N.I., Ponomareva N.M., Kanaya G., Urabe M., Shikano S. BIOMASS OF FRESHWATER TREMATODE CERCARIAE: A POTENTIAL PART OF ENERGY FLOW IN ESTUARINE ECOSYSTEM (Institute of Systematics and Ecology of Animals SB RAS, Novosibirsk, Russia, National Institute for Environmental Studies, Tsukuba, School of Environmental Science, the University of Shiga Prefecture, Hikone, Center for Northeast Asian Studies, Tohoku University, Japan)
69. Zobkova M.V. CONCENTRATION OF HUMIC SUBSTANCES IN SURFACE WATERS OF HUMID ZONE (Northern Water Problems Institute KarRC RAS, Petrozavodsk, Karelia, Russia)
70. Zvereva Yu.M., Medvezhonkova O.V., Naumova T.V., Sheveleva N.G., Sorokovikova E.G., Timoshkin O.A. INFAUNA ASSOCIATED WITH THE ENDEMIC SPONGE *LUBOMIRSKIA BAICALENSIS* (PALLAS, 1771) IN A PERIOD OF ECOLOGICAL CRISIS IN LAKE BAIKAL (Limnological Institute SB RAS, Irkutsk, Russia)

13 September, Thursday

Programme of the School Session

09:00-10:00 Registration of participants (lobby in Molchanov-Sibirsky Library, 1 floor)

10:00-13:00 School Session (rooms 723, 703, 706, 204 at Molchanov-Sibirsky Library)

11:30-12:00 Coffee break (cafe at Molchanov-Sibirsky Library)

13:00-14:00 Lunch (cafe at Molchanov-Sibirsky Library)

14:00-15:00 Excursion to the Molchanov-Sibirsky Library

15:00-16:00 Closing of the School Session (room 204 at Molchanov-Sibirsky Library): popular-science lectures by researchers of Limnological Institute; film about Lake Baikal; summary of the School Session; awarding for best works.

14 September, Friday

09:00-11:00 International Scientific School “Modern Limnology at the Intersection of Disciplines” (conference hall, LIN SB RAS):

Chairs: Matveev A., Rudstam L. Secretary: Zvereva Ju.

09:00-09:30 Smirnov V. POPULATION LEVEL OF CLIMATIC RHYTHMS IN BAIKAL OMUL *COREGONUS AUTUMNALIS MIGRATORIUS* (GEORGI) (Baikal Museum ISC SB RAS, Listvyanka, Russia)

09:30-10:00 Doenz C. SPECIATION IN WHITEFISH AND CHAR (Institute of Ecology and Evolution, Aquatic Ecology and Evolution, Bern, Switzerland)

10:00-10:30 Matveev A. ICHTHYOFAUNA OF WATERBODIES OF SOUTH EASTERN SIBERIA: NEW INFORMATION (Irkutsk State University)

10:30-11:00 Semenchenko S. EFFICIENCY OF OMIL ARTIFICIAL REPRODUCTION (“Gosrybcenter”, Tyumen, Russia)

11:00-11:15 Coffee break (lobby near the conference hall, LIN SB RAS)

11:30-13:00 Round Table Discussion “Problems and Prospects of Fishery in Artificial Rearing of Fish and Their Propagation under Natural Conditions”. Chairs – Vasily Smirnov and Sergey Semenchenko (conference hall, LIN SB RAS)

13:00-14:00 Lunch (canteen in Institute of Solar-Terrestrial Physics, 126-a, Lermontov St.; canteen in LIN SB RAS; cafe “Ezhevika”, 2, Ulan-Batorskaya St.; cafe at Molchanov-Sibirsky Library)

14:00-18:00 Skype-session (Molchanov-Sibirsky Library, room 204, 2 floor):

14:00-14:30 Gordon R. EXPLOSIVE BIOPROPULSION OF MICROORGANISMS (Retired from the University of Manitoba; Gulf Specimen Marine Laboratory & Aquarium, Winnipeg, Canada)

14:30-15:00 Churilova T. DEVELOPMENT OF OPERATIVE MONITORING OF WATER QUALITY AND PRODUCTIVITY INDICATORS BASED ON REMOTE SENSING DATA: PRELIMINARY RESULTS OF LIGHT ABSORPTION BY PHYTOPLANKTON, NON-ALGAL PARTICLES AND COLORED DISSOLVED ORGANIC MATTER MEASURED IN LAKE BAYKAL IN JULY 2018 (Marine Hydrophysical Institute RAS, Sevastopol, Russia)

15:00-15:30 Suslin V.V. SOUTHERN BAIKAL: JOINT ANALYSIS OF SATELLITE DATA IN VISUAL SPECTRAL RANGE AND IN SITU CHLOROPHYLL A MEASUREMENTS (Marine Hydrophysical Institute RAS, Sevastopol, Russia)

15:30-16:00 Shul’ga T.Ya. SIMULATION OF SUSPENDED MATTER IN THE SEA OF AZOV IN A HYDRODYNAMIC MODEL WITH ASSIMILATION SATELLITE DATA (Marine Hydrophysical Institute RAS, Sevastopol, Russia)

16:00-16:15 - Coffee break (lobby, 7 floor, Molchanov-Sibirsky Library)

16:15-16:45 Winfield I. THE CULTURAL IMPORTANCE OF THE ARCTIC CHARR (*SALVELINUS ALPINUS*) OF WINDERMERE (Centre for Ecology & Hydrology, Lancaster, UK)

16:45-17:15 Wanzenböck Jo. eDNA AS A MONITORING TOOL FOR SPAWNING MIGRATIONS OF POTAMODROMOUS-ITEROPAROUS FISH SPECIES (Research Institute for Limnology Mondsee, the University of Innsbruck, Mondsee, Austria)

17:15-17:30 Vornholt M.A., Sapozhnikova Yu.P. STUDY OF ULTRASTRUCTURAL CORRELATES OF DIFFERENT LEVEL OF SENSITIVITY IN BAIKAL FISH IN THEIR NATURAL ENVIRONMENT AND UNDER CONDITIONS OF COMMON GARDEN EXPERIMENTS (Limnological Institute SB RAS, Irkutsk, Russia)

17:30-18:00 Sandel M. EVOLUTION IN EARTH’S COOLEST HOTSPOT: ADAPTIVE RADIATION OF BAIKAL ENDEMIC SCULPINS (The University of West Alabama, Livingston, USA)

14.00-18.00 Sessions and webinars (Molchanov-Sibirsky Library):

Session 1. Anthropogenic Impact on Freshwater Ecosystems, Ecological Monitoring and Legal Principles (room 723, 7 floor)

Session 2. Biodiversity and Development of Biotic Ecosystems (room 706, 7 floor)

Session 4. Changes of Abiotic Components in Freshwater Ecosystems and Adjacent Landscapes (room 703, 7 floor).

14:00-16:00 Start-up school for young researchers (Molchanov-Sibirsky Library, room 203, 2 floor): Defence of the projects. Expert Ekaterina Flerova (V. Williams Forage Production and Agroecology Centre, Yaroslavl, Russia)

18:00–19:00 Summing up the results of the Conference (room 204 at Molchanov-Sibirsky Library)

19:00 – Departure to Restaurant “Irkutsk” from Molchanov-Sibirsky Library

19:30-23:00 Farewell party in Restaurant “Irkutsk”

14 September, Friday

Session 1. Anthropogenic Impact on Freshwater Ecosystems, Ecological Monitoring and Legal Principles (Molchanov-Sibirsky Library, room 723, 7 floor)

Chairs: Gorshkov A.G., Ermolaeva N.I. Secretary: Zaidykov I.Yu.

14:00-14:15 Shkiria M.S. THE USE OF THE COMPLEX ELECTROMAGNETIC SOUNDINGS FOR SEARCH OF DEPOSITS OF HYDROCARBONS IN LANDFALL WET SECTION OF THE SHIELD (Irkutsk National Research Technical University, Irkutsk, Russia)

14:15-14:30 Baigal-Amar T. ECOSYSTEM RESEARCH ON A DRYING LAKE IN KHUVSGUL MONGOLIA (School of Agroecology, Mongolian University of Life Sciences, Institute of General and Experimental Biology, Mongolia)

14:30-14:45 Goncharov A.V. EVALUATION OF THE PRODUCTIVE AND DESTRUCTIVE CHARACTERISTICS OF THE WATER RESERVOIR BY OXYGEN METHOD USING AN AUTOMATED DEVICE (M.V. Lomonosov Moscow State University, Moscow, Russia)

14:45-15:00 Babenko T.A. PHYTOPLANKTON AS A BIOGENIC SOURCE OF DI- (2-ETHYLHEXYL) PHTHALATE IN THE WATER ECOSYSTEM OF THE LAKE BAIKAL (Limnological Institute SB RAS, Irkutsk, Russia)

15:00-15:15 Slukovskiy Z.I. CONTENT OF HEAVY METALS IN SEDIMENTS OF SMALL AND LARGE WATERBODIES OF KARELIA AS THE INDICATOR OF LONG-RANGE ATMOSPHERIC TRANSPORT OF POLLUTANTS (Institute of Geology KarRC RAS, Petrozavodsk, Russia)

15:15-15:30 Kustova O.V. METHODS OF ORGANOCHLORINE POLLUTANTS MONITORING IN WATER OF LAKE BAIKAL (Limnological Institute SB RAS, Irkutsk, Russia)

15:30-15:45 Kotovshchikov A.V. ANALYSIS OF SPATIAL DISTRIBUTION OF PHYTOPLANKTON (BY CHLOROPHYLL CONTENT) IN THE NOVOSIBIRSK RESERVOIR (Institute for Water and Environmental Problems SB RAS, Barnaul, Russia)

15:45-16:00 Kondratyeva L.M. RISK FACTORS OF MERCURY METHYLATION IN RIVER ECOSYSTEMS DURING FREEZE-UP (Institute of water and ecology problems RAS, Khabarovsk, Russia)

16:00-16:15 Coffee break (lobby, 7 floor, Molchanov-Sibirsky Library)

Chairs: Adamovich B.V., Mikhailenko A.V. Secretary: Zaidykov I.Yu.

- 16:15-16:30** Rozhkova N.A. MACROZOOBENTHOS OF THE STONY LITTORAL OF THE WESTERN COAST OF SOUTH BAIKAL: CURRENT STATE AND MULTIYEAR DYNAMICS (Limnological Institute SB RAS, Irkutsk, Russia)
- 16:30-16:45** Ivacheva M.A. BIOLOGICALLY ACTIVE SUBSTANCES PRODUCED BY A BENTHIC BACTERIUM *SYNECHOCOCCUS* SP. BF2 (Limnological Institute SB RAS, Irkutsk, Russia)
- 16:45-17:00** Mamontov A.M. BAIKAL OMUL (*COREGONUS MIGRATORIUS* GEORGI) DIET UNDER DECLINING POPULATION IN 2012-2016 (Limnological Institute SB RAS, Irkutsk, Russia)
- 17:00-17:15** Gasarov P.V., Sapozhnikova Yu.P. EFFECTS OF INTENSIVE TECHNOGENIC SOUND ON ACOUSTIC BEHAVIOR AND SENSORY EPITHELIUM OF BAIKAL WHITEFISH (Limnological Institute SB RAS, Irkutsk, Russia)

Session 2. Biodiversity and Development of Biotic Ecosystems (Molchanov-Sibirsky Library, room 706, 7 floor)

Chairs: Glyzina O.Yu., Bukin Yu.S. Secretary: Galach'yants A.D.

- 14:00-14:15** Shitova M.V. POPULATION GENETIC PATTERN OF CHUM SALMON (*ONCORHYNCHUS KETA*) IN THE NORTHERN PART OF ITS HABITAT (Vavilov Institute of General Genetics RAS, Moscow, Russia)
- 14:15-14:30** Mikhailov I.S. CO-OCCURRENCE PATTERNS AMONG BACTERIOPLANKTON AND PHYTOPLANKTON IN PELAGIC ZONE OF LAKE BAIKAL DURING A SPRING PHYTOPLANKTON BLOOM (Limnological Institute SB RAS, Irkutsk, Russia)
- 14:30-14:45** Bukin S.V. SUBSTRATE SPECIFICITY OF METHANOGENIC COMMUNITIES FROM LAKE BAIKAL BOTTOM SEDIMENTS ASSOCIATED WITH HYDROCARBON GAS DISCHARGE (Limnological Institute SB RAS, Irkutsk, Russia)
- 14:45-15:00** Galach'yants A.D. DIVERSITY AND ABUNDANCE OF THE LAKE BAIKAL BACTERIONEUSTON IN SUMMER PERIOD (Limnological Institute SB RAS, Irkutsk, Russia)
- 15:00-15:15** Bogdanov B.E. ICHTHYOFAUNA OF THE BAIKAL WATER SYSTEM: MODERN STRUCTURE AND HISTORY OF FORMATION (Limnological Institute SB RAS, Irkutsk, Russia)
- 15:15-15:30** Likhnev A.G. BAIKALIAN PROSERIATA: MORPHOLOGY, TAXONOMY, PHYLOGENY (Limnological Institute SB RAS, Irkutsk, Russia)
- 15:30-15:45** Yadrenkina E.N. FACTORS THAT DETERMINE THE SUCCESS OF DISTRIBUTION OF ALIEN SPECIES OF FISH IN WESTERN SIBERIA (Institute of Systematics and Ecology of Animals SB RAS)
- 15:45-16:00** Butina T.V. METAGENOMIC ANALYSIS OF VIRAL DIVERSITY IN LAKE BAIKAL (Limnological Institute SB RAS, Irkutsk, Russia)
- 16:00-16:15** **Coffee break (lobby, 7 floor, Molchanov-Sibirsky Library)**

Chairs: Kirilchik S.V., Naumova E.Yu. Secretary: Galach'yants A.D.

- 16:15-16:30** Shikano S. TREMATODE PARASITE LARVAE AS A POTENTIAL FOOD SOURCE FOR AQUATIC ANIMALS IN AN ESTUARINE ECOSYSTEM (Center for Northeast Asian Studies, Tohoku University, Sendai, Japan)
- 16:30-16:45** Bukhchuluun Ts., Baigal-Amar T. DIATOM STUDY IN KHARA RIVER BASIN, MONGOLIA (Institute of General and Experimental Biology, Mongolian Academy of Science, Mongolian State University of Life Sciences, Mongolia)

- 16:45-17:00** Nalugwa A. AN ASSESSMENT OF THE RISKS OF OIL PRODUCTION ON BIODIVERSITY OF THE ALBERTINE RIFT AQUATIC ECOSYSTEMS, UGANDA (Makerere University, Uganda)
- 17:00-17:15** Naganawa H. GENETIC ANALYSIS OF MITOCHONDRIAL CYTOCHROME OXIDASE I (COI) SUPPORTS TWO AQUATIC FAUNAS OF OLKHON ISLAND (LAKE BAIKAL) AND MONGOLIAN GOBI STEPPE REGION HAVE A COMMON ORIGIN (Laboratory of Comparative Biochemistry, The United Graduate School of Agricultural Science, Gifu University, Gifu, Japan)
- 17:15-17:30** Mayor T.Yu. MOLECULAR PHYLOGENY OF *DIACYCLOPS VERSUTUS* (MAZEPOVA, 1961), *D. IMPROCERUS* (MAZEPOVA, 1950) AND *D. GALBINUS* (MAZEPOVA, 1961) (COPEPODA: CYCLOPOIDA) FROM LAKE BAIKAL (Limnological Institute SB RAS, Irkutsk, Russia)
- 17:30-17:45** Goncharov A.V. FEATURES OF ZOOBENTHOS DISTRIBUTION IN THE DELTA OF THE SELENGA RIVER (M.V. Lomonosov Moscow State University, Moscow)

Session 4. Changes of Abiotic Components in Freshwater Ecosystems and Adjacent Landscapes (Molchanov-Sibirsky Library, room 703, 7 floor)

Chairs: Zyryanov V.N., Zabelina S.A. Secretary: Kuzmin A.V.

- 14:00-14:15** Marinaite I.I. SEASONAL VARIABILITY AND SOURCES OF PAHS IN AEROSOLS OF IRKUTSK AND BAIKAL SHORE (Limnological Institute SB RAS, Irkutsk, Russia)
- 14:15-14:30** Pestunov D.A. DISSOLVED CARBON DIOXIDE AND METHANE IN SURFACE WATER OF THE COASTAL ZONE OF LAKE BAIKAL (E. Zuev Institute of Atmospheric Optics SB RAS and Tomsk Polytechnic University, Tomsk, Russia)
- 14:30-14:45** Domyshcheva V.M. DYNAMICS OF MINERAL FORMS OF NITROGEN IN THE WATER OF LAKE BAIKAL (Limnological Institute SB RAS, Irkutsk, Russia)
- 14:45-15:00** Khuriganova O.I. SURFACE OZONE, SO₂, NO_x AT MONITORING STATIONS OF THE BAIKAL NATURAL TERRITORY (Limnological Institute SB RAS, Irkutsk, Russia)
- 15:00-15:15** Pogodaeva T.V. TRANSFORMATION AND DISTRIBUTION OF AN ORGANIC MATTER INTO THE BOTTOM SEDIMENTS OF LAKE BAIKAL (Limnological Institute SB RAS, Irkutsk, Russia)
- 15:15-15:30** Kondratyeva L.M. EFFECT OF FLOOD ON THE CONTENT OF ORGANIC MATTER IN THE AMUR RIVER (Institute of water and ecology problems FEB RAS, Khabarovsk, Russia)
- 15:30-15:45** Zyryanov V.N. EDDIES UNDER THE ICE IN THE EKMAN BOUNDARY LAYER WITH THE APPLICATION TO GIANT ICE RINGS ON LAKE BAIKAL (Water Problems Institute RAS, Moscow)
- 15:45-16:00** Zabelina S.A. METHANE EMISSION FROM THE SURFACE OF CONTRAST BOREAL LAKES (N. Laverov Federal Center for Integrated Arctic Research RAS, Arkhangelsk, Russia)
- 16:00-16:15** **Coffee break (lobby, 7 floor, Molchanov-Sibirsky Library)**

Chairs: Shimaraev M.N., Sinyukovich V.N. Secretary: Kuzmin A.V.

- 16:15-16:30** Sutyryna E.N. LONG-TERM VARIATION OF ICE-THERMAL CONDITIONS OF LAKE HOVSGOL ACCORDING TO SATELLITE DATA (Irkutsk State University, Irkutsk, Russia)
- 16:30-16:45** Vorobyova I.B. MODERN STATE OF SMALL TRIBUTARIES OF LAKE BAIKAL (V.B. Sochava Institute of Geography SB RAS, Irkutsk, Russia)

- 16:45-17:00** Abasov N.V. THE PROBLEM OF LAKE BAIKAL LEVEL MANAGEMENT IN CONDITIONS OF CLIMATE CHANGE (Melentiev Energy Systems Institute SB RAS, Irkutsk, Russia)
- 17:00-17:15** Poletaeva V.I. GEOCHEMICAL ROLE OF THE BRATSK RESERVOIR'S MAIN SEDIMENT BARRIER (Vinogradov Institute of Geochemistry SB RAS, Irkutsk, Russia)
- 17:15-17:30** Rubtsova M.N., Akulov N.I. FERROMANGANESIAN MINERALIZATION IN THE COASTAL ZONE OF LAKE BAIKAL (Institute of the Earth's Crust SB RAS, Irkutsk, Russia)
- 17:30-17:45** Pavlov I.A. ELEMENTAL COMPOSITION OF WATER AND BOTTOM SEDIMENTS OF THE LAKE GUSINOYE (Baikal Institute of Nature Management SB RAS, Ulan-Ude, Russia)

Optional excursions for participants of the Conference:

15 September, Saturday

09:30 – Bus trip to Listvyanka from Hotel Akademicheskaya (73 km from Irkutsk to Lake Baikal)

Excursion to the Seal Aquarium (Listvyanka)

Excursion to Baikal Museum (Listvyanka)

Boat trip to Biological Station in Bolshiye Koty

Lunch at the Station

Free time in Bolshiye Koty (Lake Baikal)

Dinner in Bolshiye Koty

17:00 – Departure to Listvyanka and then to Irkutsk

16 September, Sunday

One-day train trip to the Circum-Baikal Railway - <http://www.baikaltrain.ru/price/>

The trip starts at the railway station in Irkutsk at 07:46 and ends at the Irkutsk railway station at 20:00

SCIENTIFIC PROGRAMME
INTERNATIONAL CONFERENCE
“FRESHWATER ECOSYSTEMS – KEY PROBLEMS”

10 – 14 SEPTEMBER
Irkutsk, 2018