



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



**Irkutsk Regional State Universal Scientific Library  
named after I.I. Molchanov-Sibirsky**

## **SCIENTIFIC PROGRAMME**

**VIII INTERNATIONAL VERESHCHAGIN  
BAIKAL CONFERENCE**

**8 – 14 SEPTEMBER**

**Irkutsk, 2025**

The International Baikal Vereshchagin Conference has a rich history, being held every five years since 1989 at Limnological Institute SB RAS in memory of the outstanding Russian scientist Gleb Yu. Vereshchagin, who led the comprehensive large-scale studies at Lake Baikal. This conference traditionally brings together specialists from various fields involved in the study of the world's water bodies.

The year 2025 is significant for the beginning of research on Lake Baikal: 100 years ago, the Baikal Expedition of the USSR Academy of Sciences began its work, led by G.Yu. Vereshchagin, K.I. Meyer, T.B. Forsh, N.P. Predtechensky, I.P. Sidorychev, E. Perfil'ev, V.N. Sukachev, N.A. Konovalov, V.A. Povarnitsyn, P.V. Tikhomirov, E.V. Ivanov and other researchers took part. This field work, carried out in 1925 and in the following years, made it possible to obtain unique data on the ecosystem of Lake Baikal.

In addition to sectional reports, plenary presentations, practical classes and demonstration of the NanoFor 05 genetic analyzer as part of the Baikal School of Young Scientists (BSYS-2025) at the Shared Use Centers of LIN SB RAS with participation of Sintol company are held during the Conference. In addition, the traditional School Section will be organized for schoolchildren in grades 8-11, who carry out research work under guidance of teachers.

In addition to the presented programme, a workshop «Innovations in ichthyology: from theory to practice» will be held, aimed to discuss modern approaches in the field of experimental ichthyology, issues of replenishment of the natural fish populations, biodiversity conservation and issues of increasing the efficiency of aquaculture practices. The book «Laboratory of Hydrology and Hydrophysics of LIN SB RAS: 70 Years of Studying Baikal» will be presented at the Conference in collaboration with Baikal Museum SB RAS. The best articles will be published in special issues of international peer-reviewed journals: *Journal of Great Lakes Research* (WoS, Q1, Scopus, RSCI) and *Limnology and Freshwater Biology* (Scopus, Q4, RSCI).

### **Contact information:**

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## SPONSORS OF THE CONFERENCE



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Baikal Museum SB RAS



Baikal See Aquarium



Autonomous non-profit  
organization «RODNIK»



Baikal International Film Festival  
«People and Environment»

## GENERAL SCHEME

### **September 8, Monday**

**09:00-10:00** Registration of Conference participants (lobby near the conference hall, LIN SB RAS).

**10:00-10:20** Conferences Opening.

**10:20-13:00** PLENARY SESSION.

**14:00-18:00** SECTIONAL REPORTS\*: Section 1; Section 2; Section 3.

**14:00-18:00** Workshop and round table "Innovations in the field of ichthyology: Problems of monitoring the abundance and biomass of fish".

**18:30-20:00** Welcome reception, group photo.

**19:30-20:00** Programme of the 24th Baikal International Film Festival «People and Environment».

### **September 9, Tuesday**

**09:00-13:00** PLENARY SESSION.

**09:00-13:00** Baikal School of Young Scientists (BSYS-2025).

**14:00-17:00** City tour for Conference guests.

**17:00-18:00** Coffee break (lobby near the conference hall, LIN SB RAS).

**18:00-19:00** Excursion to Limnological Institute (LIN SB RAS).

**19:00-20:00** Programme of the 24th Baikal International Film Festival «People and Environment».

### **September 10, Wednesday**

**09:00-13:00** PLENARY SESSION.

**09:00-13:00** Baikal School of Young Scientists (BSYS-2025).

**14:00-18:30** SECTIONAL REPORTS\*: Section 1; Section 2; Section 4.

**14:00-18:00** Workshop and round table "Innovations in the field of ichthyology: Artificial reproduction, aquaculture problems".

**14:00-15:00** Excursion to the Irkutsk Regional State Universal Scientific Library named after I.I. Molchanov-Sibirsky.

**18:00-19:00** Excursion to Limnological Institute (LIN SB RAS).

**19:00-19:30** Programme of the 24th Baikal International Film Festival «People and Environment».

### **September 11, Thursday**

**09:00-13:00** PLENARY SESSION.

**09:00-13:00** Baikal School of Young Scientists (BSYS-2025).

**14:00-18:30** SECTIONAL REPORTS\*: Section 1; Section 5; Section 6.

**14:00-18:00** Workshop and round table "Innovations in the field of ichthyology: Biological and ecological problems of cottoid fishes (Cottoidei)".

**14:00-15:00** Excursion to the Irkutsk Regional State Universal Scientific Library named after I.I. Molchanov-Sibirsky.

**19:00-20:00** POSTER SESSION (hall, 7th floor, Molchanov-Sibirsky Library).

### **September 12, Friday**

**09:00-13:00** PLENARY SESSION.

**09:00-13:00** Baikal School of Young Scientists (BSYS-2025).

**14:00-18:00** SECTIONAL REPORTS\*: Section 1; Section 7; Section 8.

**14:00-18:00** Workshop and round table "Innovations in Ichthyology: Genetic and ecological aspects of different fish populations and species".

**14:00-15:00** Excursion to the Irkutsk Regional State Universal Scientific Library named after I.I. Molchanov-Sibirsky.

**18:00-19:00** Conference summary.

**19:30-23:00** Banquet (Chekist bar, Angara River embankment, Gagarin Blvd., 44).

### **September 13, Saturday**

**10:00-13:00** School Section of the Conference.

**08:00-19:00** Excursion to the Baikal Museum, Baikal See Aquarium and Bol'shiye Koty settlement.

### **September 14, Sunday**

Free day.

#### **\*SECTIONAL PAPERS ARE DISTRIBUTED INTO THE FOLLOWING AREAS:**

**Section 1.** Biological water resources and their rational use;

**Section 2.** Current critical factors of natural and anthropogenic origin;

**Section 3.** Molecular ecology of hydrobionts;

**Section 4.** Gas hydrates and other hydrocarbons in freshwater bodies;

**Section 5.** Cycles of organic matter and nutrients;

**Section 6.** Hydrological and hydrophysical processes and their effect on the state of aquatic environments;

**Section 7.** Approaches and methods for direct and remote control monitoring of the aquatic environment;

**Section 8.** Atmospheric aerosol, precipitation, and exchange processes in the atmosphere-water surface-biota system.

## LINKS FOR ONLINE CONNECTION

	September 8 Monday	September 9 Tuesday	September 10 Wednesday	September 11 Thursday	September 12 Friday
<b>Plenary session</b> LIN SB RAS 10:20-13:00	<a href="https://linsoran.ktalk.ru/i9w9nrdovuu3">https://linsoran.ktalk.ru/i9w9nrdovuu3</a>	<a href="https://linsoran.ktalk.ru/i9w9nrdovuu3">https://linsoran.ktalk.ru/i9w9nrdovuu3</a>	<a href="https://linsoran.ktalk.ru/i9w9nrdovuu3">https://linsoran.ktalk.ru/i9w9nrdovuu3</a>	<a href="https://linsoran.ktalk.ru/i9w9nrdovuu3">https://linsoran.ktalk.ru/i9w9nrdovuu3</a>	<a href="https://linsoran.ktalk.ru/i9w9nrdovuu3">https://linsoran.ktalk.ru/i9w9nrdovuu3</a>
<b>Workshop and round tables</b> Library room №617 14:00-18:00	<a href="https://my.mts-link.ru/j/66468511/2623055771">https://my.mts-link.ru/j/66468511/2623055771</a>		<a href="https://my.mts-link.ru/j/78297863/2623313534">https://my.mts-link.ru/j/78297863/2623313534</a>	<a href="https://my.mts-link.ru/j/66468511/2625132793">https://my.mts-link.ru/j/66468511/2625132793</a>	<a href="https://my.mts-link.ru/j/66468511/2625896736">https://my.mts-link.ru/j/66468511/2625896736</a>
<b>Section 1.</b> Library room №706 14:00-18:00	<a href="https://my.mts-link.ru/j/5940369/2622789558">https://my.mts-link.ru/j/5940369/2622789558</a>		<a href="https://my.mts-link.ru/j/59403699/2623520674">https://my.mts-link.ru/j/59403699/2623520674</a>	<a href="https://my.mts-link.ru/j/78297863/2624538797">https://my.mts-link.ru/j/78297863/2624538797</a>	<a href="https://my.mts-link.ru/j/78297863/2625400068">https://my.mts-link.ru/j/78297863/2625400068</a>
<b>Section 2.</b> Library room №703 14:00-18:00	<a href="https://my.mts-link.ru/j/78297863/2622466019">https://my.mts-link.ru/j/78297863/2622466019</a>		<a href="https://my.mts-link.ru/j/72971531/2623951679">https://my.mts-link.ru/j/72971531/2623951679</a>		
<b>Section 3.</b> Library room №723 14:00-18:00	<a href="https://my.mts-link.ru/j/72971531/2623745680">https://my.mts-link.ru/j/72971531/2623745680</a>				
<b>Section 4.</b> Library room №703 16:00-18:30			<a href="https://my.mts-link.ru/j/66468511/2624107068">https://my.mts-link.ru/j/66468511/2624107068</a>		
<b>Section 5.</b> Library room №703 14:00-18:30				<a href="https://my.mts-link.ru/j/72971531/2624918829">https://my.mts-link.ru/j/72971531/2624918829</a>	
<b>Section 6.</b> Library room №723 14:00-18:30				<a href="https://my.mts-link.ru/j/59403699/2624801618">https://my.mts-link.ru/j/59403699/2624801618</a>	
<b>Section 7.</b> Library room №703 14:00-18:00					<a href="https://my.mts-link.ru/j/59403699/2625548138">https://my.mts-link.ru/j/59403699/2625548138</a>
<b>Section 8.</b> Library room №723 14:00-18:00					<a href="https://my.mts-link.ru/j/72971531/2625732005">https://my.mts-link.ru/j/72971531/2625732005</a>
<b>Conference Summary</b> Library room №204 18:00-19:00					<a href="https://my.mts-link.ru/j/104195403/2625985415">https://my.mts-link.ru/j/104195403/2625985415</a>

## **September 8, Monday**

**09:00-10:00 Registration** (hall of the LIN SB RAS).

**10:00-10:20 Opening of the Conference** (lobby near the conference hall, LIN SB RAS).

**10:20-13:00 PLENARY SESSION** (large conference hall of the LIN SB RAS):

Chairmen: Fedotov Andrey Petrovich, Shcherbakov Dmitry Yurievich

Secretary: Dolid Evgeniy Aleksandrovich

**10:20-10:40 Fedotov Andrey Petrovich** MODERN ECOLOGICAL STATUS OF LAKE BAIKAL AND PROSPECTS FOR NEW RESEARCH DIRECTIONS (LIN SB RAS, Russia, Irkutsk)

**10:40-11:00 Kupchinsky Alexander Borisovich** HISTORY OF EXPEDITIONS OF THE COMMISSION FOR THE STUDY OF LAKE BAIKAL ON NEGATIVES 1916 - 1930 FROM THE COLLECTION OF THE BAIKAL MUSEUM OF THE SB RAS (BM SB RAS, Russia, Listvyanka)

**11:00-11:20 Bukharova Irina Georgievna** NEW MATERIALS TO THE LIFE OF G.Yu. VERESHCHAGIN AND THE HISTORY OF THE KIB EXPEDITIONS (BM SB RAS, Russia, Listvyanka)

**11:20-11:40 Coffee break** (lobby near the conference hall, LIN SB RAS).

**11:40-12:00 Filatov Nikolay Nikolaevich, Minina Tatyana Rostislavovna** V. MENSHTUKIN – THE FOUNDER OF THE APPLICATION OF MATHEMATICAL METHODS IN LIMNOLOGY (NWPI KarRC RAS, Russia, St. Petersburg) ([online](#))

**12:00-12:20 Likhoshvay Elena Valentinovna** HISTORY OF ALGOLOGICAL RESEARCH ON LAKE BAIKAL (LIN SB RAS, Russia, Irkutsk)

**12:20-12:40 Shcherbakov Dmitry Yuryevich** WHAT CAN DNA AVERAGE REPEAT ANALYSIS SAY ABOUT EVOLUTION? (LIN SB RAS, Russia, Irkutsk)

**12:40-13:00 Klimov Leonid Olegovich** NEW RUSSIAN SOLUTIONS FOR MOLECULAR BIOLOGY (Sintol company, Russia, Moscow)

**13:00-14:00 Lunch break** (canteen of the Institute of Solar-Terrestrial Physics SB RAS, 126a Lermontov Street; café "Ezhevika", 2 Ulan-Batorskaya Street; Literary café of the I.I. Molchanov-Sibirsky Library; restaurant "Winkel", 257 Lermontov Street).

**14:00-18:00 Sectional reports, webinars (Molchanov-Sibirsky Library):**

**Section 1.** Biological water resources and their rational use (room №706, 7th floor);

**Section 2.** Current critical factors of natural and anthropogenic origin (room №703, 7th floor);

**Section 3.** Molecular ecology of hydrobionts (room №723, 7th floor).

**14:00-18:00 Workshop and round table** "Innovations in the field of ichthyology: Problems of monitoring the abundance and biomass of fish" (room №617, 6th floor).

**18:30-20:00 Welcome reception, group photo** (lobby near the conference hall, LIN SB RAS).

**19:30-20:00 Programme of the 24th Baikal International Film Festival «People and Environment» named after V.G. Rasputin** (large conference hall of the LIN SB RAS). **"Miry on Baikal. 15 years later" (2022).** A popular science film about the arrival of the scientific leader of the expedition and one of the creators of "Miry" Anatoly Sagalevich to Baikal. Director Vladimir Marin, Russia, 22 min. The film is presented by the programme director of the festival Elena Utrobina.

## Sections schedule

**Section 1.** Biological water resources and their rational use (Molchanov-Sibirsky Library, room №706, 7th floor):

Chairmen: Ryadinskaya Nina Ilyinichna, Naumova Elena Yurievna

Secretary: Poroshina Anastasia Andreevna

- 14:00-14:15** **Aleksandrovich Polina Evgenievna** ALIEN SPECIES *PARAMYSIS LACUSTRIS* IN THE RIVERS OF BELARUS: DYNAMICS OF NUMBER AND DISTRIBUTION (NPC NAN Belarus for Bioresources, Belarus, Minsk)
- 14:15-14:30** **Naumova Elena Yurievna** RESULTS OF APPLICATION OF DIFFERENT APPROACHES TO DETERMINING THE NUMBER AND BIOMASS OF PELAGIC AMPHIPOD *MACROHECTOPUS BRANICKII* (LIN SB RAS, Russia, Irkutsk)
- 14:30-14:45** **Romanova Elena Vladimirovna** DIFFERENT RATES OF EVOLUTION OF MITOCHONDRIAL GENOMES OF BAIKAL AMPHIPODAS (LIN SB RAS, Russia, Irkutsk)
- 14:45-15:00** **Petunina Zhanna Vladimirovna** *EULIMNOGAMMARUS VERRUCOSUS* (CRUSTACEA: AMPHIPODA): FEATURES OF SEXUAL DIMORPHISM OF THE WESTERN POPULATION AND THE RELATIONSHIP OF GEOGRAPHICAL CONFINEMENT OF HABITAT WITH INTRASPECIFIC VARIABILITY OF MORPHOLOGICAL CHARACTERS (LIN SB RAS, Russia, Irkutsk)
- 15:00-15:15** **Saranchina Alexandra Evgenievna** ANALYSIS OF THE PHYLOGENETIC STRUCTURE OF AMPHIPODAS *EULIMNOGAMMARUS MARITUJI* IN THE BAIKAL BASIN (Research Institute of Biology ISU, Russia, Irkutsk)
- 15:15-15:30** **Nazarova Anna Aleksandrovna** INDICATORS OF CELLULAR IMMUNE RESPONSE OF BAIKAL AMPHIPODAS UNDER THE INFLUENCE OF PARASITIC LEECHES *BAICALOBDELLA TORQUATA* (Research Institute of Biology ISU, Russia, Irkutsk)
- 15:30-15:45** **Yudintseva Anzhelika Viktorovna** BATHYMETRIC DIFFERENTIATION OF AMPHIPODS OF LAKE BAIKAL (LIN SB RAS, Russia, Irkutsk) (online)
- 15:45-16:00** **Ryadinskaya Nina Ilyinichna** FEATURES OF THE LIGAMENTARY APPARATUS OF THE SHOULDER AND ELBOW JOINTS OF THE BAIKAL SEAL (Irkutsk State Agrarian University, Russia, Irkutsk)
- 16:00-16:30** **Coffee break** (Literary cafe, 7th floor of Molchanov-Sibirsky Library).
- 16:30-16:45** **Anikienko Inna Viktorovna** FEATURES OF THE BLOODSTREAM OF THE BAIKAL SEAL (Irkutsk State Agrarian University, Russia, Irkutsk)
- 16:45-17:00** **Ikonnikova Darya Romanovna** ANATOMICAL FEATURES OF THE SOFT PALATE IN THE BAIKAL SEAL IN AGE ASPECT (Irkutsk State Agrarian University, Russia, Irkutsk)
- 17:00-17:15** **Sharipova Ulyana Rashidovna** ANATOMICAL FEATURES OF NASAL CARTILAGE IN THE BAIKAL SEAL (*PUSA SIBIRICA* GMELIN, 1788) IN POSTNATAL ONTOGENESIS (Irkutsk State Agrarian University, Russia, Irkutsk)
- 17:15-17:30** **Vohidov Khabibullo Khotidzhon ugli** BONE SKELETON OF THE MIDDLE EAR OF THE BAIKAL SEAL (Irkutsk State Agrarian University, Russia, Irkutsk) (online)



**Section 2. Current critical factors of natural and anthropogenic origin** (Molchanov-Sibirsky Library, room №703, 7th floor):

Chairmen: Fedorova Galina Afanasyevna, Litvinenko Zoya Nikolaevna

Secretary: Tyurnev Ivan Nikolaevich

- 14:00-14:15 Tikhonova Darya Alekseevna** MICROPLASTIC IN THE ICHTHYOFAUNA OF THE NORTHERN PART OF LAKE LADOGA (IL RAS - SPb FRC RAS, Russia, St. Petersburg)
- 14:15-14:30 Konovalova Lyubov Aleksandrovna** FIRST RESULTS OF THE STUDY OF MICROPLASTIC CONTENT IN THE WATER OF LAKE KOTOKEL (EASTERN BAIKAL REGION) (BINM SB RAS, Russia, Ulan-Ude) ([online](#))
- 14:30-14:45 Nikonova Alena Aleksandrovna** BIOACCUMULATION AND METABOLISM OF LINEAR SODIUM ALKYL BENZENESULFONATES BY FRESHWATER SPONGE *LUBOMIRSKIA BAIKALENSIS* FROM LAKE BAIKAL AND THEIR TOXIC EFFECT IN MODEL EXPERIMENTS (LIN SB RAS, Russia, Irkutsk)
- 14:45-15:00 Kondratieva Elizaveta Sergeevna** SENSITIVITY OF LITTORAL AND DEEP-WATER AMPHIPODS OF LAKE BAIKAL TO UV RADIATION (Research Institute of Biology ISU, Russia, Irkutsk)
- 15:00-15:15 Vereshchagina Ksenia Petrovna** FIRST EXPERIMENTAL DATA ON THE ASSESSMENT OF THE INFLUENCE OF HEAT WAVES ON THE SURVIVAL AND ENERGY METABOLISM INDICATORS OF MASSIVE AMPHIPOD SPECIES OF THE LITTORAL OF LAKE BAIKAL (Research Institute of Biology ISU, Russia, Irkutsk)
- 15:15-15:30 Guseva Maria Andreevna** DISSOLVED OXYGEN AND HYDROGEN INDICATOR IN LONG-TERM MONITORING OF THE STATE OF LAKE LADOGA (GosNIORKH, Russia, St. Petersburg)
- 15:30-15:45 Grebenshchikova Valentina Ivanovna** ECOLOGICAL AND GEOCHEMICAL STATE OF SOILS AND WATER OF THE MOUTHS OF THE TRIBUTARIES OF SOUTHERN BAIKAL (IGC SB RAS, Russia, Irkutsk)
- 15:45-16:00 Fedorova Galina Afanasyevna** DETERMINATION OF PARABENS IN THE WATER OF LAKE BAIKAL BY GC-MS METHOD (LIN SB RAS, RSUJ, Russia, Irkutsk)
- 16:00-16:30 Coffee break** (Literary cafe, 7th floor of Molchanov-Sibirsky Library).
- 16:30-16:45 Titova Ksenia Vladimirovna** MONITORING HYDROCHEMICAL INDICATORS OF DRINKING LAKE OF BOLSHOY SOLOVETSKY ISLAND (FCIARCTIC UB RAS, Russia, Arkhangelsk)
- 16:45-17:00 Yeletskaya Elena Vladimirovna** MODERN ASSESSMENT OF THE TROPHIC STATUS OF COASTAL WATERS OF NORTHERN BAIKAL BY THE CONTENT OF TOTAL NITROGEN AND TOTAL PHOSPHORUS (LIN SB RAS, Russia, Irkutsk)
- 17:00-17:15 Tomberg Irina Viktorovna** HYDROCHEMICAL AND HYDROBIOLOGICAL STUDIES OF THE UPPER ANGARA RIVER AND ITS TRIBUTARIES (LIN SB RAS, Russia, Irkutsk)
- 17:15-17:30 Gorshkova Anna Sergeevna** ANALYSIS OF DIFFUSE POLLUTION OF THE COASTAL ZONE OF LAKE BAIKAL USING HOST-ASSOCIATED MOLECULAR MARKERS (LIN SB RAS, Russia, Irkutsk)
- 17:30-17:45 Semenova Anna Sergeevna** INDICATOR ROLE OF PLANKTON COMMUNITIES IN ASSESSING THE QUALITY OF WATER IN THE VISTULA LAGOON OF THE BALTIC SEA (AtlantNIRO, Russia, Kaliningrad) ([video](#))



**17:45-18:00 Andreeva Diana Valerievna** SULFATE REDUCTION PROCESSES IN GROUNDWATER IN THE ZONE OF RIVER COASTAL FILTRATION (IWEP FEB RAS, Russia, Khabarovsk) ([video](#))

**Section 3.** Molecular ecology of hydrobionts (Molchanov-Sibirsky Library, room №723, 7th floor):

Chairmen: Drozdova Polina Borisovna, Butina Tatyana Vladimirovna

Secretary: Kustova Olga Viktorovna

**14:00-14:15 Yuditseva Anzhelika Viktorovna** INTERPOPULATION VARIABILITY OF POINT MUTATIONS IN ANTICODONS OF tRNA IN BAIKAL ENDEMIC AMPHIPODAS (LIN SB RAS, Russia, Irkutsk) ([online](#))

**14:15-14:30 Bul'khin Aleksandr Olegovich** LONG-CHAIN ALKENONES IN BOTTOM SEDIMENTS OF LAKES OF THE MINUSINSK BASIN (SOUTHERN SIBERIA) AS A PALEO-INDICATOR OF CLIMATE CHANGE (IBP SB RAS, Russia, Krasnoyarsk) ([online](#))

**14:30-14:45 Zolotovskaya Elena Dmitrievna** HEMOCYTES OF BAIKAL AMPHIPODES: NEW DATA AND PROSPECTS FOR THE STUDY OF CELLULAR IMMUNE RESPONSE (Research Institute of Biology ISU, Russia, Irkutsk)

**14:45-15:00 Klimenkov Igor Viktorovich** STIMULUS-DEPENDENT POLYMERIZATION OF ACTIN MICROFILAMENTS IN THE APEX OF COLLECTIVE RECEPTOR NEURONS (LIN SB RAS, Russia, Irkutsk)

**15:00-15:15 Golubev Maxim Aleksandrovich** MOLECULAR-GENETIC AND ECOLOGICAL STUDIES OF THE SPECIES COMPLEX *TUBIFEX TUBIFEX* (OF MÜLLER, 1774) (IB FRC Komi SC UB RAS, Russia, Syktyvkar)

**15:15-15:30 Astakhova Ekaterina Mikhailovna** CONTENT OF VIRUSES IN A NATURAL WATER BODY BASED ON MOLECULAR BIOLOGICAL ANALYSIS OF NUCLEOTIDE SEQUENCES (SRC VB Vector of Rospotrebnadzor, Russia, Koltsovo)

**15:30-15:45 Butina Tatyana Vladimirovna** VIRUS DIVERSITY IN BAIKAL MOLLUSKS (LIN SB RAS, Russia, Irkutsk)

**15:45-16:00 Gorev Vladimir Aleksandrovich** TAXONOMIC AND FUNCTIONAL ANALYSIS OF THE MICROBIOME ASSOCIATED WITH THE BAIKAL MOLLUSK *BENEDICTIA BAICALENSIS* (LIN SB RAS, Russia, Irkutsk) ([online](#))

**16:00-16:30 Coffee break** (Literary cafe, 7th floor of Molchanov-Sibirsky Library).

**16:30-16:45 Gavrilenko Ksenia Dmitrievna** VIRUS DIVERSITY IN SPONGES *LUBOMIRSKIA BAIKALENSIS* (LIN SB RAS, Russia, Irkutsk) ([online](#))

**16:45-17:00 Drozdova Polina Borisovna** LARGE AND SMALL GENOMES OF AMPHIPODAS OF THE BAIKAL REGION (Research Institute of Biology ISU, Russia, Irkutsk)

**17:00-17:15 Shirokova Yulia Aleksandrovna** PHYLOGENETIC UNIFORMITY OF *GAMMARUS LACUSTRIS* SARS, 1863 IN WATER BODIES OF EASTERN SIBERIA WITH VARIOUS MINERALIZATION (Research Institute of Biology ISU, Russia, Irkutsk)

**17:15-17:30 Rogozhin Evgeny Aleksandrovich** ANTIMICROBIAL PROTEINS AND PEPTIDES AS MOLECULAR INSTRUMENTS FOR REGULATION OF PARASITE-HOST RELATIONS IN THE SYSTEM "CESTODES-FRESHWATER FISHES" (SRC IBCh RAS, Russia, Moscow)

**17:30-17:45 Marchenkov Artem Mikhailovich** MULTIPLIED SILICON TRANSPORT PROTEINS (LIN SB RAS, Russia, Irkutsk)

**17:45-18:00 Cherezova Valeria Maksimovna** IN VITRO ANALYSIS OF DTSSA4 DNA TRANSPOSONS IN BAIKAL WHITEFISHES (LIN SB RAS, Russia, Irkutsk)

**Workshop and round table “Innovations in the field of ichthyology: Problems of monitoring the abundance and biomass of fish” (Molchanov-Sibirsky Library, room №617, 6th floor):**

Chairmen: Bulatov Oleg Arkadevich, Makarov Mikhail Mikhailovich

Secretary: Sapozhnikova Yulia Pavlovna

- 14:00-14:15** **Kushnarev Sergey Viktorovich** MONITORING OF BAIKAL OMUL: PAST, PRESENT, FUTURE (BaikalNIRO, Russia, Ulan-Ude)
- 14:15-14:30** **Zapadaeva Natalia Gennadievna** METHODOICAL ASPECTS OF ASSESSING THE STOCK OF BAIKAL OMUL (VNIRO, Russia, Moscow)
- 14:30-14:45** **Voronov Mikhail Grigorievich** DOWNWARD MIGRATION OF OMUL PRODUCERS IN THE SELENGA RIVER (Buryat State Agricultural Academy, Russia, Ulan-Ude)
- 14:45-15:00** **Goncharov Sergey Mikhailovich** DYNAMICS OF NUMBER AND BIOMASS OF MUSLEV IN FISHING AQUATORIES OF LAKE BAIKAL (VNIRO, Russia, Moscow) ([online](#))
- 15:00-15:15** **Makarov Mikhail Mikhailovich** USE OF STATIC HYDROACOUSTIC SURVEY FOR MONITORING THE FATTENING POPULATION OF BAIKAL OCULUS, COMPARISON WITH CLASSICAL TRAWL-ACOUSTIC SURVEY (LIN SB RAS, Russia, Irkutsk)
- 15:15-15:30** **Kirilchik Sergey Vasilievich** PARTICLE SIZE DISTRIBUTION AS A TOOL FOR STUDYING THE DYNAMICS OF ECODNA OF BAIKAL OMULE (LIN SB RAS, Russia, Irkutsk)
- 15:30-15:45** **Knyazev Alexander Sergeevich** COMPARISON OF METHODS OF ASSESSMENT OF PARAMETERS OF AGE DISTRIBUTION OF FISH OF LAKE BAIKAL (BSU, Russia, Irkutsk)
- 15:45-16:00** **Vyalkova Elizaveta Aleksandrovna** FERTILISM OF ROACH *RUTILUS RUTILUS* IN VARIOUS WATER BODIES OF THE SOUTH OF WESTERN SIBERIA (ZapSibNIRO, Russia, Novosibirsk)
- 16:00-16:30** **Coffee break** (Literary cafe, 7th floor of Molchanov-Sibirsky Library).
- 16:30-16:45** **Interesova Elena Aleksandrovna** AGE AND GROWTH OF BREEM *ABRAMIS BRAMA* IN VARIOUS WATER BODIES OF THE SOUTH OF WESTERN SIBERIA (ZapSibNIRO, Russia, Novosibirsk)
- 16:45-17:00** **Pogosyan Valeria Rubenovna** CHANGES IN THE POPULATIONS OF SOME FISH SPECIES OF THE KIZH SKERRY OF LAKE ONEGA: MONITORING RESULTS (NWPI KarRC RAS, PSU, Russia, Petrozavodsk) ([video](#))
- 17:00-17:15** **Perezhilin Aleksandr Ivanovich** DYNAMICS OF AGE DISTRIBUTION OF BIOMASS OF YENISEI STURGEON (RSSUST, Russia, Krasnoyarsk) ([online](#))
- 17:15-18:00** **Round table within the framework of the Workshop** “Innovations in the field of ichthyology: Problems of monitoring the abundance and biomass of fish” (Moderators: Bulatov O.A., Makarov M.M. Secretary: Sapozhnikova Yu.P.).

## September 9, Tuesday

**09:00-13:00 Baikal School of Young Scientists (BSYS-2025)**, with the participation of Sintol company:

### **Day 1. Preparation of samples for sequencing and fragment analysis of DNA**

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- Sample preparation and DNA extraction from samples of various fish species using the DNA MAG Isolation Kit reagent kit on the Kolibri automatic station.
- Determination of DNA concentration on Qubix using the SinQuant HS DNA, SinQuant BR DNA kits.
- PCR setup, analysis of the obtained amplicons using electrophoresis, their enzymatic purification on magnetic particles.

**09:00-13:00 PLENARY SESSION** (large conference hall of the LIN SB RAS):

Chairmen: Panchenko Mikhail Vasilievich, Khodzher Tamara Viktorovna

Secretary: Dolid Evgeniy Aleksandrovich

**09:00-09:20 Khodzher Tamara Viktorovna** TO THE ASSESSMENT OF THE MODERN CHEMICAL BALANCE OF TROPHIC STATUS COMPONENTS IN LAKE BAIKAL (LIN SB RAS, Russia, Irkutsk)

**09:20-09:40 Panchenko Mikhail Vasilievich** COMPREHENSIVE STUDY OF PROCESSES DETERMINING GAS EXCHANGE OF CO<sub>2</sub> AND CH<sub>4</sub> IN THE ATMOSPHERE-WATER SYSTEM ON LAKE BAIKAL (IAO SB RAS, Russia, Tomsk)

**09:40-10:00 Safatov Alexander Sergeevich** STUDY OF LOCAL AND NON-LOCAL SOURCES OF BIOAEROSOLS (SRC VB Vector of Rospotrebnadzor, Russia, Koltsovo)

**10:00-10:20 Obolkin Vladimir Arkadyevich** ON THE ROLE OF THE ATMOSPHERE IN THE ENTRY OF CHEMICAL SUBSTANCES INTO THE ECOSYSTEM OF LAKE BAIKAL (LIN SB RAS, Russia, Irkutsk)

**10:20-10:40 Pestunov Igor Alekseevich** SATELLITE MONITORING OF THE STATE OF THE SURFACE LAYER OF LAKE BAIKAL: ANALYSIS OF KEY PARAMETERS AND THEIR TRENDS (Federal Research Center ICT, Russia, Novosibirsk)

**10:40-11:00 Tomberg Irina Viktorovna** LONG-TERM DYNAMICS OF CHEMICAL INDICATORS OF INTERSTITIAL WATERS OF THE SPILL ZONE OF LAKE BAIKAL (LIN SB RAS, Russia, Irkutsk)

**11:00-11:20 Coffee break** (lobby near the conference hall, LIN SB RAS).

**11:20-11:40 Gorshkov Alexander Georgievich** COASTAL ZONE – OBJECT OF ANALYTICAL CONTROL OF PERSISTENT ORGANIC POLLUTANTS IN LAKE BAIKAL (LIN SB RAS, Russia, Irkutsk)

**11:40-12:00 Shiretorova Valentina Germanovna** CURRENT STATE OF LAKE KOTOKEL (EASTERN BAIKAL REGION): HYDROCHEMICAL CHARACTERISTICS AND WATER QUALITY (BINM SB RAS, Russia, Ulan-Ude)

**12:00-12:20 Aleksandrov Sergey Valerievich** HYDROCHEMICAL CONDITIONS AND TROPHIC STATUS OF THE FRESHWATER KURSHSKIY BAY (IO RAS, Russia, Kaliningrad)

**12:20-12:40 Zadereev Egor Sergeevich** INFLUENCE OF MICROPLASTICS OF VARIOUS NATURE ON ZOOPLANKTON (FRC KSC SB RAS, Russia, Krasnoyarsk)

**12:40-13:00 Annenkov Vadim Vladimirovich** NANOPLASTICS IN WATER BODIES: RELEVANCE, RISKS FOR HYDROBIONTS (LIN SB RAS, Russia, Irkutsk)

**13:00-14:00 Lunch break** (canteen of the Institute of Solar-Terrestrial Physics SB RAS, 126a Lermontov Street; café "Ezhevika", 2 Ulan-Batorskaya Street; Literary café of the I.I. Molchanov-Sibirsky Library; restaurant "Winkel", 257 Lermontov Street).

**14:00-17:00 Bus tour around Irkutsk for Conference guests (departure from LIN SB RAS).**

**17:00-18:00 Coffee break** (lobby near the conference hall, LIN SB RAS).

**18:00-19:00 Excursion to the centers of collective use** (LIN SB RAS).

**19:00-20:00 Programme of the 24th Baikal International Film Festival «People and Environment» named after V.G. Rasputin** (large conference hall of the LIN SB RAS). **"The Baikal Seal and the Man" (2025)**. The first popular science film in Russia about the Baikal seal, a unique endemic and the only mammal of Lake Baikal. Director Nikita Bulanov, Russia, 42 min. The film is presented by the festival's programme director Elena Utrobina.

## September 10, Wednesday

**09:00-13:00 Baikal School of Young Scientists (BSYS-2025)**, with the participation of Sintol company:

### **Day 2. DNA sequencing by the Sanger method**

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- Setting up a sequencing reaction with labeled terminators, cleaning the obtained samples using reagents from the kit for establishing the taxonomic affiliation of objects of animal origin by sequencing the CO1 region of mtDNA and loading into the Nanofor 05 genetic analyzer (GenSeq DNA sequencing and SeqMag purification reagent kit).
- Working with the obtained nucleotide sequences in the Mutation Surveyor program.

**09:00-13:00 PLENARY SESSION** (large conference hall of the LIN SB RAS):

Chairmen: Afanasyev Viktor Viktorovich, Sinyukovich Valery Nikolaevich

Secretary: Dolid Evgeniy Aleksandrovich

**09:00-09:20 Latysheva Inna Valentinovna** FEATURES OF THE FORMATION OF THE HYDROMETEOROLOGICAL REGIME OF LAKE BAIKAL IN THE MODERN PERIOD (ISU, Russia, Irkutsk)

**09:20-09:40 Chesnokov Alexander Alexandrovich** INTERNAL WAVES AND SEICHES IN SOUTHERN BAIKAL (LIH SB RAS, Russia, Novosibirsk)

**09:40-10:00 Sutorikhin Igor Anatolyevich** HEAT WAVES IN THE AREAS OF LAKE TELETSKOE (IWEF FEB RAS, Russia, Barnaul) (video)

**10:00-10:20 Khlystov Oleg Mikhailovich** GAS HYDRATES OF LAKE BAIKAL: 25 YEARS OF SEARCH AND RESEARCH (LIN SB RAS, Russia, Irkutsk)

**10:20-10:40 Kondratieva Lyubov Mikhailovna** ECOLOGICAL AND BIOGEOCHEMICAL STUDIES IN THE BUREYSKOYE RESERVOIR AROUND A GIANT LANDSLIDE (IWEF FEB RAS, Russia, Khabarovsk)

**10:40-11:00 Afanasyev Viktor Viktorovich** COASTAL-MARINE WET BIOMORPHOLITOSYSTEMS, THEIR NATURAL-CLIMATIC AND SOCIO-ECOLOGICAL POTENTIAL (SSU, Russia, Yuzhno-Sakhalinsk)

**11:00-11:20 Coffee break** (lobby near the conference hall, LIN SB RAS).

**11:20-11:40 Rogozin Denis Yurievich** EVENKIA LAKES AS WITNESSES OF THE TUNGUSKA CATASTROPHE OF 1908 (IBP SB RAS, Russia Krasnoyarsk)

**11:40-12:00 Strakhovenko Vera Dmitrievna** SILICA IN SAPROPEL DEPOSITS OF SMALL LAKES LOCATED IN DIFFERENT LANDSCAPE ZONES OF THE SOUTH OF WESTERN SIBERIA (IG SB RAS, Russia, Novosibirsk) (online)

**12:00-12:20 Kyul Elena Vladimirovna** MORaine LAKES AND HAZARDOUS NATURAL PROCESSES (KBSC RAS, Russia, Nalchik) (online)

**12:20-13:00 Aslamov Ilya Aleksandrovich** CURRENT STATE AND PROSPECTS FOR DEVELOPMENT OF A DIGITAL SYSTEM FOR MONITORING HYDROLOGICAL AND METEOROLOGICAL PARAMETERS OF LAKE BAIKAL (LIN SB RAS, Russia, Irkutsk)

**13:00-14:00 Lunch break** (canteen of the Institute of Solar-Terrestrial Physics SB RAS, 126a Lermontov Street; café "Ezhevika", 2 Ulan-Batorskaya Street; Literary café of the I.I. Molchanov-Sibirsky Library; restaurant "Winkel", 257 Lermontov Street).

**14:00-15:00 Excursion to the Irkutsk Scientific Library named after I.I. Molchanov-Sibirsky.**

**14:00-18:30 Sectional reports, webinars (Molchanov-Sibirsky Library):**

**Section 1.** Biological water resources and their rational use (room №706, 7th floor);

**Section 2.** Current critical factors of natural and anthropogenic origin (room №703, 7th floor);

**Section 4.** Gas hydrates and other hydrocarbons in freshwater bodies (room №703, 7th floor).

**14:00-18:00 Workshop and round table** “Innovations in the field of ichthyology: Artificial reproduction, aquaculture problems” (room №617, 6th floor).

**18:00-19:00 Excursion to the centers of collective use (LIN SB RAS).**

**19:00-19:30 Programme of the 24th Baikal International Film Festival «People and Environment» named after V.G. Rasputin** (large conference hall of the LIN SB RAS). **"Rings of the interseason. Baikal" (2024).** A popular science film about the study of mysterious ice rings that form on Lake Baikal in the interseason. Director: Vladimir Marin, Russia, 25 min. The film is presented by the festival's programme director Elena Utrobina.

### **Sections schedule**

**Section 1.** Biological water resources and their rational use (Molchanov-Sibirsky Library, room №706, 7th floor):

Chairmen: Naumova Tatyana Vladimirovna, Kaygorodova Irina Alexandrovna

Secretary: Poroshina Anastasia Andreevna

- 14: 00-14:15 Kladchenko Ekaterina Sergeevna** INFLUENCE OF SHELL DAMAGE ON THE FUNCTIONAL STATE OF BIVALVE MOLLUSCS (IBSS, Russia, Sevastopol)
- 14:15-14:30 Maksimova Natalia Vasilievna** TROPHIC DIFFERENTIATION OF GASTRIPODS IN A RECENTLY DISCOVERED BIOTOPE WITH DIFFUSE METHANE EMISSION IN LAKE BAIKAL (LIN SB RAS, Russia, Irkutsk)
- 14:30-14:45 Kovalenkova Maria Vladimirovna** MOLLUSCS OF THE SUBFAMILY SPHAERIINAE (BIVALVIA: SPHAERIIDAE) IN LAKE BAIKAL: GENETIC DIVERSITY AND PHENOTYPIC VARIABILITY (LIN SB RAS, Russia, Irkutsk)
- 14:45-15:00 Shary-ool Mariana Olzeyovna** FAUNA OF SMALL BIVALVE MOLLUSKS (BIVALVIA: SPHAERIIDAE) OF TUVA (FSCEATB FEB RAS, Russia, Vladivostok)
- 15:00-15:15 Karnaukhov Dmitry Yuryevich** COMMUNITIES OF ORGANISMS OF THE THERMAL SPRING TOLSTIKHINSKY (REPUBLIC OF BURYATIA, RUSSIA) (BM SB RAS, Russia, Listvyanka)
- 15:15-15:30 Naumova Tatyana Vladimirovna** FIRST INFORMATION ON ANOMALIES IN TAXOCENOSES AND DISTRIBUTION OF INVERTEBRATES IN ZONES OF TECTONIC DISTURBANCES AND HETEROGENEITIES OF LANDSCAPES ON THE UNDERWATER SLOPE OF LAKE BAIKAL (LIN SB RAS, Russia, Irkutsk)
- 15:30-15:45 Naumova Tatyana Vladimirovna** FAUNA OF FREE-LIVING NEMATODES OF LAKE BAIKAL (LIN SB RAS, Russia, Irkutsk)
- 15:45-16:00 Kaigorodova Irina Aleksandrovna** NEW DATA ON THE DISTRIBUTION OF SUBARCTIC LEECHS *CYSTOBRANCHUS MAMMILATUS* IN THE LAKE BAIKAL BASIN (LIN SB RAS, Russia, Irkutsk)
- 16:00-16:30 Coffee break** (Literary cafe, 7th floor of Molchanov-Sibirsky Library).
- 16:30-16:45 Konovalova Darya Andreevna** SEASONAL TRENDS AND AGE STRUCTURE OF THE POPULATION OF CADDIS APATANIA CRYMOPHILA IN THE BRYOFAUNA OF THE YENISEI RIVER (IBP SB RAS, Russia, Krasnoyarsk)
- 16:45-17:00 Polyakova Natalia Vladimirovna** LAKE HABITAT OF LAMPREY LARVAE IN THE NATIONAL PARK "SMOLENSKOYE POOZER'E" (IEE RAS, Russia, Moscow) (online)
- 17:00-17:15 Ablyazov Ernes Rustemovich** FISHES AND DECAPOD CRUSTACEANS OF THE DAHONG RIVER (CAT TIENA NATIONAL PARK, VIETNAM) (IEE RAS, Russia, Moscow) (online)



**Section 2.** Current critical factors of natural and anthropogenic origin (Molchanov-Sibirsky Library, room №703, 7th floor):

Chairmen: Tomberg Irina Viktorovna, Ziganshin Irek Ilgizarovich

Secretary: Tyurnev Ivan Nikolaevich

- 14:00-14:15 Mamontov Alexander Anatolyevich** PERSISTENT ORGANIC POLLUTANTS IN THE STORAGE MAPS OF THE SOLZANSKIY LANDFILL OF THE BPPM (IGC SB RAS, Russia, Irkutsk)
- 14:15-14:30 Karnaukhov Dmitry Yuryevich** FACTORS INFLUENCING THE FAUNA OF QUARRY LAKES IN THE CHEREMKHOVSKY DISTRICT (IRKUTSK REGION, RUSSIA) (BM SB RAS, Russia, Listvyanka)
- 14:30-14:45 Ziganshin Irek Ilgizarovich** NATURAL-ANTHROPOGENIC TRANSFORMATION OF FLOODLAND LAKES IN THE SIVIYAGI RIVER BASIN (IESU AS RT, Russia, Kazan)
- 14:45-15:00 Varenitsina Anna Andreevna** ACCUMULATION OF MICROPLASTICS BY MOSQUITO LARVAE OF THE FAMILY CULICIDAE IN WATER BODIES OF THE MIDDLE OB BASIN (TSU, Russia, Tomsk) ([online](#))
- 15:00-15:15 Pastukhov Boris Vadimovich** CONTENT OF A NUMBER OF PRIORITY POLLUTANTS IN SURFACE WATERS OF THE NORTH-EASTERN BAIKAL REGION (IGCE, Russia, Moscow) ([online](#))
- 15:15-15:30 Rogozhina Elena Vyacheslavovna** ACTIVITY OF OIL PRODUCT DESTRUCTOR BACTERIA IN THE FUEL OIL POLLUTION ZONE OF THE BLACK SEA COAST (FRC SRC RAS, Russia, Sochi) ([online](#))
- 15:30-15:45 Kolpakova Elena Sergeevna** PERSISTENT ORGANIC POLLUTANTS IN AQUATIC ECOSYSTEMS OF THE KANDALAKSH BAY OF THE WHITE SEA (FCIARCTIC UB RAS, Russia, Arkhangelsk) ([video](#))
- 15:45-16:00 Solomonova Ekaterina Sergeevna** ASSESSMENT OF THE TOXIC EFFECT OF HERBICIDES ATRAZINE AND GLYPHOSATE ON THE PHYTOPLANKTON COMMUNITY OF THE BLACK SEA (IBSS, Russia, Sevastopol) ([online](#))

**16:00-16:30 Coffee break** (Literary cafe, 7th floor of Molchanov-Sibirsky Library).

**Section 4.** Gas hydrates and other hydrocarbons in freshwater bodies (Molchanov-Sibirsky Library, room №703, 7th floor):

Chairmen: Khlystov Oleg Mikhailovich, Pogodaeva Tatyana Vladimirovna

Secretary: Tyurnev Ivan Nikolaevich

- 16:30-16:45 Khlystov Oleg Mikhailovich** GAS HYDRATES OF THE SHALLOW-WATER SEEP "MELKIY", LAKE BAIKAL (LIN SB RAS, Russia, Irkutsk)
- 16:45-17:00 Vidishcheva Olesya Nikolaevna** GASES AND ORGANIC MATTER OF BOTTOM SEDIMENTS OF LAKE BAIKAL AND THEIR RELATIONSHIP WITH THE OIL SYSTEM (MSU, Russia, Moscow)
- 17:00-17:15 Ivanov Vyacheslav Gennadievich** LONG-TERM DYNAMICS OF METHANE CONCENTRATION IN THE WATER COLUMN OF LAKE BAIKAL (LIN SB RAS, Russia, Irkutsk)
- 17:15-17:30 Kozhevnikov Evgeniy Vasilievich** EXPERIMENTAL ASSESSMENT OF THE EFFICIENCY OF DECOMPOSITION OF GAS HYDRATES IN POROUS MEDIA WHEN INJECTING SALT SOLUTIONS (PNRPU, Russia, Perm)
- 17:30-17:45 Pogodaeva Tatyana Vladimirovna** IODINE IN THE PORAGE WATERS OF A DEEP FRESHWATER LAKE (LAKE BAIKAL) (LIN SB RAS, Russia, Irkutsk)
- 17:45-18:00 Sorokoumova Yana Vladislavovna** MODELING OF DISCHARGE OF METHANE DISSOLVED IN GROUNDWATER ALONG THE HYDRATE FAULT (MSU, Russia, Moscow)



- 18:00-18:15 Solovieva Marina Andreevna** NEW DATA ON THE DISTRIBUTION OF GAS HYDRATES IN THE SEDIMENTS OF LAKE BAIKAL (PROJECT CLASS@BAIKAL) (MSU, Russia, Moscow)
- 18:15-18:30 Pestunov Dmitry Aleksandrovich** INTERCALIBRATION OF VAPOR-PHASE AND EQUILIBRIUM METHODS OF MEASURING METHANE IN WATER (IAO SB RAS, Russia, Tomsk)

**Workshop and round table “Innovations in the field of ichthyology: Artificial reproduction, aquaculture problems”** (Molchanov-Sibirsky Library, room №617, 6th floor):

Chairmen: Lyutikov Anatoly Anatolievich, Glyzina Olga Yurievna

Secretary: Sapozhnikova Yulia Pavlovna

- 14:00-14:15 Kuzmin Alexander Vladimirovich** HEAT STRESS AS A FACTOR OF CLEANSING SELECTION IN AQUACULTURE ON THE EXAMPLE OF COMMON CARP (*CYPRINUS CARPIO*) (IKBFU, Russia, Kaliningrad)
- 14:15-14:30 Efimenko Bogdan Eduardovich** DE NOVO ANALYSIS OF *CYPRINUS CARPIO* MUTATIONS UNDER CHEMICAL MUTAGENESIS AND HEAT STRESS (IKBFU, Russia, Kaliningrad)
- 14:30-14:45 Epifantsev Alexander Alekseevich** STUDY OF TEMPERATURE ADAPTATION AND TEMPERATURE STRESS IN WHITEFISH USING TRANSCRIPTOME AND EPIGENOME ANALYSES (LIN SB RAS, Russia, Irkutsk)
- 14:45-15:00 Vakhteeva Evgeniya Alikovna** INFLUENCE OF VARIOUS LIGHT SPECTRA ON THE DEVELOPMENT OF WHITEFISH EMBRYOS IN AQUACULTURE CONDITIONS (LIN SB RAS, Russia, Irkutsk)
- 15:00-15:15 Lyutikov Anatoly Anatolyevich** EXPERIENCE OF INDUCED TRIPLOIDIZATION OF WHITEFISH USING HIGH PRESSURE (GosNIORKH, Russia, St. Petersburg)
- 15:15-15:30 Golotin Vasily Alexandrovich** CYTOGENETIC SCREENING OF NELMA PRODUCERS TO INCREASE THE SURVIVAL OF INDUCED TRIPLOID PROGENY (GosNIORKH, Russia, St. Petersburg)
- 15:30-15:45 Gamayunov Egor Leonidovich** INFLUENCE OF PROTATRANS ON THE DEVELOPMENT OF SALMON FISH CAVIAR (LIN SB RAS, Russia, Irkutsk)
- 15:45-16:00 Glyzina Olga Yuryevna** OPTIMIZATION OF PRESERVATION AND CULTIVATION TECHNOLOGY OF COLD-WATER AQUACULTURE OF BAIKAL WHITEFISHES AND THEIR HYBRIDS (LIN SB RAS, Russia, Irkutsk)

**16:00-16:30 Coffee break** (Literary cafe, 7th floor of Molchanov-Sibirsky Library).

- 16:30-16:45 Anoshko Pavel Nikolaevich** BASES AND PROSPECTS FOR USING THE FISHERY POTENTIAL OF THE MALOE MORE STRAIT OF LAKE BAIKAL FOR ARTIFICIAL REPRODUCTION OF WHITEFISH (LIN SB RAS, Russia, Irkutsk)
- 16:45-17:00 Nikiforova Anna Platonovna** PROSPECTS OF FERMENTATION APPLICATION FOR PRODUCTION OF FISH PRODUCTS AND PROCESSING OF SECONDARY PRODUCTS OF FISH PROCESSING (ITMO University, Russia, St. Petersburg)
- 17:00-17:15 Podolskaya Maria Sergeevna** SAFETY ASSESSMENT OF PHYCOBILIPROTEIN EXTRACT FOR OYSTERS IN AQUACULTURE: ACUTE TOXICITY TEST (IBSS, Russia, Sevastopol)
- 17:15-17:30 Kryakhova Natalia Vladimirovna** AQUACULTURE OF TEN-POD CRUSTACEANS IN THE WORLD AND RUSSIA: STATUS AND PROSPECTS (VNIRO, Russia, Moscow)
- 17:30-18:00 Round table within the framework of the Workshop “Innovations in the field of ichthyology: Artificial reproduction, aquaculture problems”** (Moderators: Lyutikov A.A., Glyzina O.Yu. Secretary: Sapozhnikova Yu.P.).

## September 11, Thursday

**09:00-13:00 Baikal School of Young Scientists (BSYS-2025)**, with the participation of Sintol company:

### **Day 3. DNA fragment analysis**

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- Setting up PCR using the GenExpert-Osetr reagent kit for genetic certification and determining the relationship of sturgeon fish by multiplex amplification of 7 STR loci, followed by analysis of the lengths of PCR products using capillary electrophoresis on the NanoFor 05 genetic analyzer.
- Working with the obtained data in the GeneMarker program.

**09:00-13:00 PLENARY SESSION** (large conference hall of the LIN SB RAS):

Chairmen: Fefilova Elena Borisovna, Belykh Olga Ivanovna

Secretary: Dolid Evgeniy Aleksandrovich

**09:00-09:20 Kratasyuk Valentina Aleksandrovna** BIOLUMINESCENT ENZYMATIC BIOTESTS FOR MONITORING SOIL, WATER AND AIR ENVIRONMENT (SFU, Russia, Krasnoyarsk)

**09:20-09:40 Litvinenko Zoya Nikolaevna** FORMATION OF TOXIC SUBSTANCES IN GROUNDWATER DURING MICROBIAL TRANSFORMATION OF PHENANTHRENE (IWEP FEB RAS, Russia, Khabarovsk)

**09:40-10:00 Belykh Olga Ivanovna** BENTHOS CYANOBACTERIA - PRODUCERS OF PARALYTIC TOXINS OF MOLLUSKS (LIN SB RAS, Russia, Irkutsk)

**10:00-10:20 Drukker Valentin Valerianovich** BACTERIOPHAGES OF LAKE BAIKAL - IN THE STRUCTURE OF THE NEW INTERNATIONAL CLASSIFICATION ICTV (LIN SB RAS, Russia, Irkutsk)

**10:20-10:40 Zemskaya Tamara Ivanovna** MICROBIAL COMMUNITIES IN THE SEDIMENTS OF THE RIFT LAKE BAIKAL AND THEIR ROLE IN THE PROCESSES OF DIAGENESIS (LIN SB RAS, Russia, Irkutsk)

**10:40-11:00 Kozlov Oleg Vladimirovich** ECOLOGICAL GROUPS OF BACTERIA IN SMALL SALT LAKES OF THE SOUTH-WEST OF WESTERN SIBERIA (KSU, Russia, Kurgan)

**11:00-11:20 Coffee break** (lobby near the conference hall, LIN SB RAS)

**11:20-11:40 Belikov Sergey Ivanovich** ANALYSIS OF CHANGES IN THE MICROBIAL COMMUNITY OF BAIKAL SPONGES (LIN SB RAS, Russia, Irkutsk)

**11:40-12:00 Fefilova Elena Borisovna** RESULTS OF MOLECULAR GENETIC STUDIES OF HARPACTICOIDA (COPEPODA, CRUSTACEA) OF LAKE BAIKAL (IB FRC Komi SC UB RAS, Russia, Syktyvkar)

**12:00-12:20 Lipinskaya Tatyana Petrovna** CURRENT STATE OF THE PROBLEM OF BIOLOGICAL INVASIONS OF AQUATIC ECOSYSTEMS OF BELARUS (NPC NAN Belarus for Bioresources, Belarus, Minsk)

**12:20-12:40 Eremkina Tatyana Vladimirovna** ALGAE DIVERSITY OF LARGE RESERVOIRS OF THE SVERDLOVSK REGION (MIDDLE URALS) (UralNIRO, Russia, Yekaterinburg)

**12:40-13:00 Sitnikova Tatyana Yakovlevna** MYSTERIES OF SPECIATION OF ENDEMIC GASTROPODS OF LAKE BAIKAL (LIN SB RAS, Russia, Irkutsk)

**13:00-14:00 Lunch break** (canteen of the Institute of Solar-Terrestrial Physics SB RAS, 126a Lermontov Street; café "Ezhevika", 2 Ulan-Batorskaya Street; Literary café of the I.I. Molchanov-Sibirsky Library; restaurant "Winkel", 257 Lermontov Street).

**14:00-15:00 Excursion to the Irkutsk Scientific Library named after I.I. Molchanov-Sibirsky.**

**14:00-18:30 Sectional reports, webinars (Molchanov-Sibirsky Library):**

**Section 1.** Biological water resources and their rational use (room №706, 7th floor);

**Section 5.** Cycles of organic matter and nutrients (room №703, 7th floor);

**Section 6.** Hydrological and hydrophysical processes and their effect on the state of aquatic environments (room №723, 7th floor).

**14:00-18:00 Workshop and round table** “Innovations in the field of ichthyology: Biological and ecological problems of cottoid fishes (Cottoidei)” (room №617, 6th floor).

**19:00-20:00 POSTER SESSION (hall, 7th floor, Molchanov-Sibirsky Library).**

**Sections schedule**

**Section 1.** Biological water resources and their rational use (Molchanov-Sibirsky Library, room №706, 7th floor):

Chairmen: Rusanovskaya Olga Olegovna, Mayor Tatyana Yurievna

Secretary: Poroshina Anastasia Andreevna

**14:00-14:15 Bessudova Anna Yuryevna** SCALE GOLDEN ALGAE OF RESERVOIRS OF ANGARA CASCADE HPP (LIN SB RAS, Russia, Irkutsk)

**14:15-14:30 Bolobanshchikova Galina Nikolaevna** DIATOM ALGAE IN LATE HOLOCENE DEPOSITS OF THREE DEEP-WATER LAKES OF EVENKIA (KRASNOYARSK REGION) (IBP SB RAS, Russia, Krasnoyarsk)

**14:30-14:45 Firsova Alena Dmitrievna** CHANGES IN THE COMPOSITION OF CHRYSOPHYTE STOMATOCYST IN THE IRKUTSK RESERVOIR AND SMALL RIVERS FLOWING INTO THE ANGARA RIVER (LIN SB RAS, Russia, Irkutsk)

**14:45-15:00 Annenkova Natalia Vadimovna** DETECTION OF *GYMNODINIUM BAICALENSE* AND *APOCALATHIUM EURYCEPS* SIMILAR DINOFLAGELLATES IN LAKES OF NORTHWEST RUSSIA (INC RAS, Russia, St. Petersburg) (online)

**15:00-15:15 Rusanovskaya Olga Olegovna** ANALYSIS OF THE DYNAMICS OF BAIKAL NET ZOOPLANKTON OVER 80 YEARS OF OBSERVATIONS AT "POINT #1" (Research Institute of Biology ISU, Russia, Irkutsk)

**15:15-15:30 Neronova Svetlana Yurievna** CURRENT STATE OF THE ZOOPLANKTON COMMUNITY OF POSOLSKY SORA AZ. BAIKAL (BaikalNIRO, Russia, Ulan-Ude)

**15:30-15:45 Makarkina Natalia Viktorovna** *METADIAPTOMUS ASIATICUS* (ULJANIN, 1875) (CRUSTACEA: CALANOIDA): COMPARATIVE MORPHOLOGY AND DISTRIBUTION (ISU, Russia, Irkutsk)

**15:45-16:00 Yaskelyainen Darya Dmitrievna** SUBMERSIBLE VIDEO SYSTEM FOR ACCOUNTING THE NUMBER AND FUNCTIONAL CHARACTERISTICS OF ZOOPLANKTON (SFU, Russia, Krasnoyarsk)

**16:00-16:30 Coffee break** (Literary cafe, 7th floor of Molchanov-Sibirsky Library).

**16:30-16:45 Zaydykov Igor Yurievich** *EPISCHURA* OR *EPISCHURELLA*? TESTING TOPOLOGICAL HYPOTHESES (LIN SB RAS, Russia, Irkutsk)

**16:45-17:00 Mayor Tatyana Yuryevna** COMPARATIVE ANALYSIS OF ZOOPLANKTON DIVERSITY IN THE COASTAL ZONE OF LAKE BAIKAL USING DNA METABARCODING AND MICROSCOPY (LIN SB RAS, Russia, Irkutsk)

**17:00-17:15 Mayor Tatyana Yuryevna** NEW EURASIAN SPECIES OF *ACANTHOCYCLOPS OF THE ROBUSTUS* GROUP (COPEPODA: CRUSTACEA), DISCOVERED IN NORTH AMERICA (LIN SB RAS, Russia, Irkutsk)

- 17:15-17:30 Gorbunova Tatyana Lvovna** BIOCEANOSES OF MACROZOOBENTHOS OF WATER BODIES OF THE KARDYVACH HIGH-MOUNTAIN LAKES SYSTEM (CAUCASIAN STATE BIOSPHERE RESERVE) (FRC SRC RAS, Russia, Sochi)
- 17:30-17:45 Podshivalina Valentina Nikolaevna** OCCURRENCE OF *PLEUROXUS DENTICULATUS* (CLADOCERA: CHYDORIDAE) IN THE WATER BODIES OF THE PRISURYE REGION (Prisursky Nature Reserve, Russia, Cheboksary) ([online](#))
- 17:45-18:00 Trukhan Maria Andreevna** ZOOPLANKTON AND MEIOBENTHOS OF SMALL LAKES OF THE PUTORANA PLATEAU (KRASNOYARSK REGION, RUSSIA): INFLUENCE OF ALTITUDINAL GRADIENT ON THE STRUCTURE OF TAXOCENES (MSU, Russia, Moscow) ([online](#))
- 18:00-18:15 Burmagin Maksim Valentinovich** QUANTITATIVE INDICATORS OF ZOOBENTHOS OF THE LOWEST AREA OF THE SEVERNAYA DVINA RIVER FOR THE WINTER (UNICE) PERIOD 2024-2025 (FCIARCTIC UB RAS, Russia, Arkhangelsk) ([online](#))

**Section 5.** Cycles of organic matter and nutrients (Molchanov-Sibirsky Library, room №703, 7th floor):

Chairmen: Lyapina Elena Evgenievna, Alexandrov Sergey Valerievich

Secretary: Tyurnev Ivan Nikolaevich

- 14:00-14:15 Ziganshin Irek Ilgizarovich** ORGANIC CARBON RESERVES IN BOTTOM SEDIMENTS OF SEPARATE BAYS OF THE KUIBYSHEV RESERVOIR (IESU AS RT, Russia, Kazan)
- 14:15-14:30 Pestunov Dmitry Aleksandrovich** BALANCE OF GREENHOUSE GASES FLOWS IN THE WATER AREA OF LAKE BAIKAL IN THE SPRING AND SUMMER PERIODS OF 2024 (IAO SB RAS, Russia, Tomsk)
- 14:30-14:45 Guzeva Alina Valerievna** ECOLOGICAL AND GEOCHEMICAL STUDIES OF LAKES OF ANTARCTIC OASIS (IL RAS - SPb FRC RAS, Russia, St. Petersburg)
- 14:45-15:00 Erina Oksana Nikolaevna** FEATURES OF ASSESSMENT OF INTERNAL BIOGENIC LOAD IN A VALLEY RESERVOIR (MSU, Russia, Moscow)
- 15:00-15:15 Aleksandrov Sergey Valerievich** PRIMARY PRODUCTION AND CONSUMPTION OF ORGANIC MATTER BY ZOOPLANKTON IN THE FRESHWATER LAGOON ECOSYSTEM OF THE CURONIAN LAGOON (IO RAS, Russia, Kaliningrad)
- 15:15-15:30 Alexandrov Sergey Valerievich** THE PREGOL RIVER ESTUARY AS A BIOFILTER OF BIOGENIC RUNOFF (IO RAS, Russia, Kaliningrad)
- 15:30-15:45 Lapenkov Artem Evgenievich** INFLUENCE OF TROUT FARMS ON BOTTOM SEDIMENTS OF LAKE LADOGA (IL RAS - SPb FRC RAS, Russia, St. Petersburg)
- 15:45-16:00 Lyapina Elena Evgenievna** BIOGENIC ELEMENTS IN THE NEEDLES OF GYMNOSPERMS OF THE COAST OF LAKE BAIKAL (IMCES SB RAS, Russia, Tomsk)
- 16:00-16:30 Coffee break** (Literary cafe, 7th floor of Molchanov-Sibirsky Library).
- 16:30-16:45 Onishchuk Natalia Anatolyevna** CONTENT OF SILICON IN THE TRIBUTARIES OF SOUTHERN BAIKAL (LIN SB RAS, Russia, Irkutsk)
- 16:45-17:00 Prilutskaya Natalia Sergeevna** FEATURES OF DISTRIBUTION OF BIOGENIC ELEMENTS IN SURFACE WATERS OF LAKES OF BOLSHOY SOLOVETSKY ISLAND (FCIARCTIC UB RAS, Russia, Arkhangelsk)
- 17:00-17:15 Leonova Galina Aleksandrovna** DISTRIBUTION OF BIOGENIC ELEMENTS BY THE DEPTH OF THE SECTION OF BOTTOM SEDIMENTS OF LAKE KOTOKEL (EASTERN BAIKAL REGION) (IM SB RAS, Russia, Novosibirsk) ([online](#))

- 17:15-17:30 Efimova Lyudmila Evgenievna** MODERN CHEMICAL COMPOSITION OF WATER OF THE RIVERS OF THE WESTERN DVINA BASIN (MSU, Russia, Moscow) [\(online\)](#)
- 17:30-17:45 Belkina Natalia Aleksandrovna** ACCUMULATION OF ORGANIC MATTER IN BOTTOM SEDIMENTS OF LAKE ONEGA (NWPI KarRC RAS, Russia, Petrozavodsk) [\(online\)](#)
- 17:45-18:00 Sokolov Dmitry Igorevich** ORGANIC MATTER AND BIOGENIC ELEMENTS IN THE WATER OF LAKE DEEP (MOSCOW REGION) (MSU, Russia, Moscow) [\(online\)](#)
- 18:00-18:15 Maltsev Anton Evgenievich** GEOCHEMISTRY OF BIOGENIC ELEMENTS IN PORE WATERS OF BOTTOM SEDIMENTS OF SMALL LAKES (SOUTH OF WESTERN SIBERIA) (IM SB RAS, Russia, Novosibirsk) [\(online\)](#)
- 18:15-18:30 Vakhrameeva Elena Anatolyevna** DISTRIBUTION OF ORGANIC MATTER AND IRON IN BOTTOM SEDIMENTS OF LAKE MUROMSKOE (KARELIA) (FCIARCTIC UB RAS, Russia, Arkhangelsk) [\(video\)](#)

**Section 6.** Hydrological and hydrophysical processes and their effect on the state of aquatic environments (Molchanov-Sibirsky Library, room №723, 7th floor):

Chairmen: Osipova Olga Petrovna, Turbakov Mikhail Sergeevich

Secretary: Kustova Olga Viktorovna

- 14:00-14:15 Aslamov Ilya Aleksandrovich** STUDY OF CURRENTS IN LAKE BAIKAL (LIN SB RAS, Russia, Irkutsk)
- 14:15-14:30 Anisimova Lyudmila Aleksandrovna** FIRST INFORMATION ON THE MORPHOMETRY AND THERMODYNAMICS OF THREE MOUNTAIN LAKES IN THE CENTER OF THE CHUKOTKA HIGHLAND (VNIRO, Russia, Moscow)
- 14:30-14:45 Gasan Viktor Svyatoslavovich** ANALYSIS OF VARIABILITY OF HYDROGRAPHS OF USEFUL INFLOW INTO LAKE BAIKAL AND THEIR FORECASTING (ESI SB RAS, Russia, Irkutsk)
- 14:45-15:00 Pogodaeva Tatyana Vladimirovna** UNDERWATER DISCHARGE OF THE GROUND HYDROTHERMAL SPRING KOTELNIKOVSKY (GORYACHINSKAYA GUBA LAKE BAIKAL) (LIN SB RAS, Russia, Irkutsk)
- 15:00-15:15 Osipova Olga Petrovna** INFLUENCE OF ATMOSPHERIC CIRCULATION ON THE ICE REGIME OF LAKE BAIKAL (IG SB RAS, Russia, Irkutsk)
- 15:15-15:30 Turbakov Mikhail Sergeevich** INFLUENCE OF POROUS MEDIUM DYNAMICS ON FILTRATION AND MIGRATION OF COLLOIDS (PNRPU, Russia, Perm)
- 15:30-15:45 Osipov Eduard Yuryevich** LAKE BAIKAL LEVEL FLUCTUATIONS AS AN INDICATOR OF ATMOSPHERIC CIRCULATION VARIABILITY (LIN SB RAS, Russia, Irkutsk)
- 15:45-16:00 Palshin Nikolay Innokentievich** THERMAL STRATIFICATION AND INTERNAL WAVES IN A SMALL FOREST LAKE (NWPI KarRC RAS, Russia, Petrozavodsk) [\(online\)](#)
- 16:00-16:30 Coffee break** (Literary cafe, 7th floor of Molchanov-Sibirsky Library).
- 16:30-16:45 Efremova Tatyana Vladimirovna** THERMAL REGIME OF VARIOUS LAKES OF KARELIA IN THE CONDITIONS OF GLOBAL WARMING (NWPI KarRC RAS, Russia, Petrozavodsk) [\(online\)](#)
- 16:45-17:00 Zdorovenov Roman Eduardovich** METHODS OF HYDROPHYSICAL MEASUREMENTS IN LAKES (NWPI KarRC RAS, Russia, Petrozavodsk) [\(online\)](#)
- 17:00-17:15 Lesnikova Polina Sergeevna** ELEMENTAL COMPOSITION OF MZYMTA RIVER WATERS IN DIFFERENT PHASES OF THE HYDROLOGICAL REGIME, BLACK SEA COAST OF RUSSIA (FRC SRC RAS, Russia, Sochi) [\(online\)](#)



- 17:15-17:30 Stepanov Petr Mikhailovich** FORECASTING ICE PHENOMENA ON LAKE ONEGA USING REMOTE SENSING DATA (RSHU, Russia, St. Petersburg) [\(online\)](#)
- 17:30-17:45 Zdorovenova Galina Eduardovna** WATER TEMPERATURE AND DISSOLVED OXYGEN CONTENT IN SMALL LAKES OF KARELIA IN THE ANNUAL CYCLE (NWPI KarRC RAS, Russia, Petrozavodsk) [\(online\)](#)
- 17:45-18:00 Tereshina Maria Alekseevna** STRATIFICATION OF THE CHEMICAL COMPOSITION OF THE WATERS OF A EUTROPHIC LAKE WITHIN THE CITY OF MOSCOW UNDER VARIOUS CONDITIONS OF VERTICAL MIXING (MSU, Russia, Moscow) [\(online\)](#)
- 18:00-18:15 Tsvetova Elena Aleksandrovna** NUMERICAL MODELING OF IMPURITY DISTRIBUTION IN LAKE BAIKAL (ICMMG SB RAS, Russia, Novosibirsk) [\(online\)](#)
- 18:15-18:30 Sukhovilo Nina Yuryevna** INFLUENCE OF SPRING THERMOBARS ON PHYTOPLANKTON DISTRIBUTION IN LAKE DOLGOE (BELARUS) (BSU, Belarus, Minsk) [\(online\)](#)

**Workshop and round table “Innovations in the field of ichthyology: Biological and ecological problems of cottoid fishes (Cottoidei)”** (Molchanov-Sibirsky Library, room №617, 6th floor):

Chairmen: Matveev Arkady Nikolaevich, Kirilchik Sergey Vasilievich

Secretary: Sapozhnikova Yulia Pavlovna

- 14:00-14:15 Matveev Arkady Nikolaevich** FEATURES OF REPRODUCTION OF YELLOWWING GOBY IN THE MALOE MORE STRAIT IN 2022-2023. (ISU, Russia, Irkutsk)
- 14:15-14:30 Kirilchik Sergey Vasilievich** GEOLOGICAL HISTORY OF LAKE BAIKAL FORMS THE POPULATION STRUCTURE OF THE STONE BARKER PARACOTTUS KNERII (*TELEOSTEI*; PERCIFORMES; COTTIDAE) (LIN SB RAS, Russia, Irkutsk)
- 14:30-14:45 Borvinskaya Ekaterina Vitalievna** SEARCH FOR IMMUNE RESPONSE GENES IN THE TRANSCRIPTOME OF THE ROCK FLOWER *PARACOTTUS KNERII* (Research Institute of Biology ISU, Russia, Irkutsk)
- 14:45-15:00 Etingova Anna Albertovna** DEVELOPMENT OF A METHODOLOGY FOR PRESERVING LIVE SPECIMENS OF BAIKAL DEEP-SEA FISHES OF THE SUBORDER COTTOIDEI DURING CATCHING AND TRANSPORTATION (BM SB RAS, Russia, Listvyanka)
- 15:00-15:15 Didorenko Sergey Ivanovich** SPAWNING AND ASSOCIATED BEHAVIOR FORMS OF THE BAIKAL LONG-WINGED SHOWBALL *COTTOCOMEPHORUS INERMIS* (YAKOWLEW, 1890) (SCORPAENIFORMES, COTTOIDEI) (BM SB RAS, Russia, Listvyanka)
- 15:15-15:30 Khanaev Igor Veniaminovich** THE IMPORTANCE OF ARTIFICIAL SUBSTRATES IN THE REPRODUCTION OF SOME SPECIES OF BAIKAL SCUBBLE FISHES (LIN SB RAS, Russia, Irkutsk)
- 15:30-15:45 Yakhnenko Vera Mikhailovna** FEATURES OF THE BLOOD SYSTEM OF SLAGGERED FISHES OF LAKE BAIKAL (LIN SB RAS, Russia, Irkutsk)
- 15:45-16:00 Sudakov Nikolay Petrovich** SYSTEM OF ACTIN MICROFILAMENTS AS A MARKER OF THE PROCESSES OF DAMAGE, STRESS, ADAPTATION AND REGENERATION (LIN SB RAS, Russia, Irkutsk)
- 16:00-16:30 Coffee break** (Literary cafe, 7th floor of Molchanov-Sibirsky Library).
- 16:30-16:45 Koroleva Anastasia Gennadiyevna** TELOMERIC BIOLOGY OF DEEP-SEA BROADBREATHERS OF LAKE BAIKAL (LIN SB RAS, Russia, Irkutsk)

**16:45-17:00 Sapozhnikova Yulia Pavlovna** COMPARATIVE TRANSCRIPTOMICS AS A KEY TO UNDERSTANDING THE ADAPTIVE STRATEGIES OF BAIKAL SLANTFISHES TO LIVING IN DIFFERENT ECOLOGICAL NICHEs (LIN SB RAS, Russia, Irkutsk)

**17:00-18:00 Round table within the framework of the Workshop “Innovations in the field of ichthyology:** Biological and ecological problems of cottoid fishes (Cottoidei)” (Moderators: Matveev A.N., Kirilchik S.V. Secretary: Sapozhnikova Yu.P.).



**September 11, Thursday**  
**POSTER SESSION**

(hall of the 7th floor of Irkutsk Regional State Universal Scientific Library  
named after I.I. Molchanov-Sibirsky)

1. **Ganbaatar Burenbaatar Damia** NEW RECORDED SPECIES OF MACROMYCETES IN THE BAIKAL BASIN (Botanical Garden and Research Institute, Mongolia, Ulaanbaatar) [\(online\)](#)
2. **Zhou Qi** SPERMATOGENESIS FEATURES IN FLIER *CENTRARCHUS MACROPTERUS* (FAMILY CENTRARCHIDAE) (SMBU, China, Shenzhen)
3. **Bakashkina Alexandra Sergeevna** PROBLEM SYSTEMATICS OF BAIKAL COPEPODS OF THE GENUS *CANTHOCAMPTUS* (HARPACTICOIDA, COPEPODA) (IB FRC Komi SC UB RAS, Russia, Syktyvkar)
4. **Batranina Irina Olegovna** NEW DATA ON HYDROCHEMISTRY, PHYSICOCHEMICAL PARAMETERS AND FAUNA OF MACROINVERTEBRATES OF SOME SPRINGS OF THE KHONGORO-UULA GROUP (TUNKINSKAYA VALLEY, RUSSIA) (BM SB RAS, Russia, Listvyanka)
5. **Biritskaya Sofia Aleksandrovna** MICROPLASTICS IN THE BAIKAL REGION: A REVIEW (ISU, Russia, Irkutsk)
6. **Boldanova Elena Vladimirovna** ANALYSIS OF THE DYNAMICS OF THE COASTLINE OF THE KARGA PENINSULA OF LAKE BAIKAL USING GOOGLE EARTH ENGINE (BSU, Russia, Irkutsk)
7. **Boldanova Elena Vladimirovna** POSSIBILITIES OF ASSESSING THE STATE OF SURFACE WATERS OF LAKE BAIKAL USING GOOGLE EARTH ENGINE (BSU, Russia, Irkutsk)
8. **Buzevich Vasilisa Vadimovna** SPRING PHYTOPLANKTON OF THE BOGUCHANSKOYE RESERVOIR IN 2024 (LIN SB RAS, Russia, Irkutsk)
9. **Nepokrytykh Anna Vladimirovna** LONG-TERM DYNAMICS OF THE STATE OF MACROZOOBENTHOS OF THE LITTORAL ZONE IN THE AREA OF INFLUENCE OF THE BPPM (SOUTHERN BAIKAL) (LIN SB RAS, Russia, Irkutsk)
10. **Vinokurova Galina Vladimirovna** PHYTOPLANKTON OF VARIOUS WATER BODIES IN THE SOUTH OF WESTERN SIBERIA DURING THE ICE-OFF PERIOD (IWEP FEB RAS, Russia, Barnaul) [\(online\)](#)
11. **Golobokova Lyudmila Petrovna** CHEMICAL COMPOSITION OF ATMOSPHERIC AEROSOL OF DIFFERENT SIZE FRACTIONS AT THE STATIONS OF SOUTHERN BAIKAL (LIN SB RAS, Russia, Irkutsk)
12. **Gorbunova Yulia Aleksandrovna** MACROPHYTES OF FRESHWATER KURSHSKIY BAY IN EUTROPHIC CONDITIONS AND THE POSSIBILITY OF THEIR ECONOMIC USE (IO RAS, Russia, Kaliningrad) [\(online\)](#)
13. **Guligiev Artem Timurovich** ADSORPTION OF DIFFERENT TYPES OF MICROPLASTIC PARTICLES BY MACROPHYTES OF LAKE BAIKAL (ISU, Russia, Irkutsk) [\(online\)](#)
14. **Dobrynin Viktor Ivanovich** TEMPERATURE DEPENDENCE OF THE GLOW OF ANGARA WATER (INRTU, Russia, Irkutsk)
15. **Domysheva Valentina Mikhailovna** LONG-TERM CHANGES IN THE CONCENTRATION OF BIOGENIC ELEMENTS IN THE COASTAL WATERS OF LAKE BAIKAL (LIN SB RAS, Russia, Irkutsk)
16. **Dubovskaya Olga Petrovna** GENETIC DIVERSITY AND MORPHOLOGICAL FEATURES OF THE NUMEROUS GENERA *SENECELLA* JUDAY 1923 AND *ORTHOCYCLOPS* FORBES 1897 (COPEPODA) WITH A FRAGMENTED RANGE (IBP SB RAS, Russia, Krasnoyarsk)
17. **Dudakova Dina Sergeevna** USE OF REMOTE SENSING METHODS FOR STUDYING BOTTOM LANDSCAPES OF LAKE LADOGA (IL RAS - SPb FRC RAS, Russia, St. Petersburg)

18. **Ermolaeva Yana Konstantinovna** REACTION OF THE BAIKAL LITTORAL AMPHIPOD *EULIMNOGAMMARUS CYANEUS* (DYBOWSKY 1874) TO WARM AND COLD LED LIGHT OF LOW INTENSITIES (ISU, Russia, Irkutsk) ([online](#))
19. **Zhadanovskaya Ekaterina Aleksandrovna** DYNAMICS OF CASES OF HIGH POLLUTION OF SURFACE WATERS OF THE BAIKAL NATURAL TERRITORY IN 2015-2024. (IGCE, Russia, Moscow) ([online](#))
20. **Zadereev Egor Sergeevich** THE ROLE OF CHEMICAL INTERACTIONS IN THE COEXISTENCE OF PLANKTONIC CRUSTACEANS (FRC KSC SB RAS, Russia, Krasnoyarsk)
21. **Zaripova Ksenia Maratovna** TRANSFORMATION OF THE ECOSYSTEM OF THE SOUTH-EASTERN PART OF THE SIVASH BAY (SEA OF AZOV) IN THE CONDITIONS OF LONG-TERM CHANGE IN SALINITY (IBSS, Russia, Sevastopol)
22. **Ibragimova Aisylu Gumerovna** PALEORECONSTRUCTION OF THE WESTERN KARELIAN UPLANDS BASED ON CLADOCEREAN ANALYSIS (IPEE RAS, Russia, Moscow) ([online](#))
23. **Kalyuzhnaya Olga Viktorovna** CELL CULTURE OF GONADS OF THE ROCK PITCHER *PARACOTTUS KNERII* (DYBOWSKI, 1874) (Research Institute of Biology ISU, Russia, Irkutsk)
24. **Klimova Nadezhda Borisovna** SPECIES COMPOSITION AND STRUCTURE OF ZOOPLANKTON OF THE BELOYARSKOE RESERVOIR (SVERDLOVSK REGION) (UralVNIRO, Russia, Yekaterinburg)
25. **Kovalenkova Maria Vladimirovna** PHYLOGENETIC POSITION AND NUMBER OF CHROMOSOMES OF THE ENDEMIC BAIKAL TARDIGRADER BERTOLANIUS MARKEVICHII (BISEROV, 1992) (EUTARDIGRADA, EOHYPSIBIIDAE) (LIN SB RAS, Russia, Irkutsk)
26. **Kodatenko Ivan Dmitrievich** SEASONAL DYNAMICS OF ZOOPLANKTON IN SMALL WATER BODIES OF THE PRIMORSKY RIDGE (IRKUTSK REGION, RUSSIA) (ISU, Russia, Irkutsk) ([online](#))
27. **Kolosova Ksenia Alekseevna** CREATION OF A LIBRARY OF DNA BARCODES OF ZOOPLANKTON OF LAKE BAIKAL (ISU, Russia, Irkutsk)
28. **Kravtsova Lyubov Sergeevna** DIVERSITY OF BOTTOM FAUNA IN DEEP-WATER ZONE AT THE WESTERN SIDE OF THE SOUTHERN BASIN OF LAKE BAIKAL (LIN SB RAS, Russia, Irkutsk)
29. **Kuimova Lyubov Nikolaevna** CHANGES IN THERMAL CONDITIONS AND ICE REGIME OF LAKE BAIKAL AND THE ARCTIC BASED ON OBSERVATION DATA (LIN SB RAS, Russia, Irkutsk)
30. **Lemesheva Anastasia Aleksandrovna** ASSESSMENT OF ECOLOGICAL CHARACTERISTICS OF ZOOPLANKTON POPULATIONS USING DIGITAL AND OPTICAL METHODS (SFU, Russia, Krasnoyarsk) ([online](#))
31. **Lomakina Anna Vladimirovna** DIVERSITY OF MICROBIAL COMMUNITIES IN BOTTOM SEDIMENTS OF THE RIFT LAKE TELETSKOE, ALTAI REPUBLIC (LIN SB RAS, Russia, Irkutsk) ([online](#))
32. **Lutskin Evgeniy Sergeevich** SEASONAL SPATIAL VARIABILITY OF MERCURY IN THE ATMOSPHERE OF THE SOUTHERN BAIKAL REGION AND OVER LAKE BAIKAL (LIN SB RAS, Russia, Irkutsk)
33. **Makukhin Vladimir Leonidovich** INFLUENCE OF METEOROLOGICAL CHARACTERISTICS ON THE PROCESSES OF SPREADING IRKUTSK POLLUTION BY EMISSIONS FROM THE NOVO-IRKUTSKAYA TPP (LIN SB RAS, Russia, Irkutsk)
34. **Marinaite Irina Iozovna** LONG-TERM DYNAMICS OF AEROSOL PARTICLES AND POLYAROMATIC HYDROCARBONS IN THE ATMOSPHERE AT THE MONITORING STATION IN IRKUTSK (LIN SB RAS, Russia, Irkutsk)
35. **Moiseenko Valentina Valerievna** BIODIVERSITY AND STRUCTURE OF ZOOPLANKTON COMMUNITIES OF THE WATERED YANTARNY QUARRY (KALININGRAD REGION) (AtlantNIRO, Russia, Kaliningrad) ([online](#))

36. **Natyaganova Antonina Valentinovna** NON-CLASSICAL CONJUGATION IN THE BAIKAL FILAMETHY ALGAE SPIROGYRA (LIN SB RAS, Russia, Irkutsk)
37. **Nepokrytykh Anna Vladimirovna** NEW DATA ON THE ECOLOGY OF ENDEMIC CADDS FLIERS OF LAKE BAIKAL (LIN SB RAS, Russia, Irkutsk)
38. **Netsvetaeva Olga Grigoryevna** RESULTS OF MONITORING STUDIES OF ATMOSPHERIC PRECIPITATION IN THE SOUTHERN BAIKAL REGION (LIN SB RAS, Russia, Irkutsk)
39. **Nikitin Oleg Vladimirovich** MAPPING OF PHYTOPLANKTON BLOOMS DYNAMICS IN THE KUIBYSHEV RESERVOIR BASED ON SENTINEL-2 DATA (KFU, Russia, Kazan)
40. **Nikitin Oleg Vladimirovich** COMPUTER VISION IN ECOTOXICOLOGY: HOW VIDEO PROCESSING PARAMETERS AFFECT BEHAVIORAL INDICATORS (ON THE EXAMPLE OF DAPHNIA MAGNA) (KFU, Russia, Kazan)
41. **Nikitin Oleg Vladimirovich** FLOWS OF GREENHOUSE GASES (CO<sub>2</sub>, CH<sub>4</sub>) FROM THE SURFACE OF THE KUIBYSHEV RESERVOIR: A STUDY BY THE METHOD OF TURBULENT PULSATIONS (KFU, Russia, Kazan)
42. **Nikolaeva Tatyana Andreevna** ASSESSMENT OF REPRODUCTION STRATEGIES OF *HYDRA VULGARIS* POPULATIONS BASED ON ML-ANALYSIS OF MICROSATELLITE MARKER FREQUENCIES (LIN SB RAS, Russia, Irkutsk)
43. **O Elizaveta Petrovna** PENTAENOIC CARBOXYLIC ACIDS OF THE SPONGE *LUBOMIRSKIA BAIKALENSIS* AS ESSENTIAL INDICATORS OF THE STATE OF THE AQUATIC ENVIRONMENT OF LAKE BAIKAL (LIN SB RAS, Russia, Irkutsk)
44. **Ovdina Ekaterina Andreevna** SYSTEMATIZATION OF ORGANOMINERAL BOTTOM SEDIMENTS OF SOUTHERN SIBERIA: THE ROLE OF EXCHANGE PROCESSES IN THE ATMOSPHERE-WATER-SEDIMENT-BIOTA SYSTEM (IM SB RAS, Russia, Novosibirsk) [\(online\)](#)
45. **Peretolchina Tatyana Evgenievna** Mshanki of the Baikal region (LIN SB RAS, Russia, Irkutsk)
46. **Poroshina Anastasia Andreevna** COMPARATIVE ANALYSIS OF REPRODUCTIVE STRATEGIES OF DAPHNIIIDAE USING INDIVIDUALLY-ORIENTED MODELS AND MICROSATELLITE MARKERS (LIN SB RAS, Russia, Irkutsk)
47. **Potapov Sergey Anatolyevich** GENOMES OF SINGLE-STRANED DNA VIRUSES RECOVERED FROM LAKE BAIKAL METAGENOMES (LIN SB RAS, Russia, Irkutsk)
48. **Potemkina Tatyana Gavrilovna** TROPICAL NIGHTS AND HOT DAYS IN THE AREA OF LAKE BAIKAL - SIGNS OF GLOBAL WARMING (LIN SB RAS, Russia, Irkutsk) [\(online\)](#)
49. **Semenov Mikhail Yuryevich** IDENTIFICATION OF FACTORS DETERMINING THE DISTRIBUTION OF POLYCYCLIC AROMATIC HYDROCARBONS BETWEEN THE COMPONENTS OF THE NATURAL ENVIRONMENT OF THE BAIKAL NATURAL TERRITORY (LIN SB RAS, Russia, Irkutsk)
50. **Sideleva Valentina Grigoryevna** MORPHOLOGICAL AND GENETIC DIVERGENCE BETWEEN *PARACOTTUS SPECIES* IN LAKE BAIKAL AND IDENTIFICATION OF THE SPECIES THAT INVADDED THE ABAKAN RIVER, A TRIBUTORY OF THE YENISEI RIVER (ZIN RAS, Russia, St. Petersburg) [\(online\)](#)
51. **Sideleva Valentina Grigoryevna** MORPHOLOGICAL AND GENETIC DISTINCTION OF THE LOCAL ENDEMIC *NEOCOTTUS THERMALIS* ASSOCIATED WITH THE HYDROTHERMAL FIELD IN FROLIKHA BAY, LAKE BAIKAL (ZIN RAS, Russia, St. Petersburg) [\(online\)](#)
52. **Sidorova Anastasia Ivanovna** STATE OF AQUATIC ECOSYSTEM OF THE KIZHSKIE SKERRY AREA OF LAKE ONEGA DURING THE SUB-ICE PERIOD (NWPI KarRC RAS, Russia, Petrozavodsk) [\(online\)](#)
53. **Simukhina Elvira Yuryevna** IDENTIFICATION AND STUDY OF THE PROPERTIES OF PSYCHROPHILIC PIGMENT-FORMING MICROORGANISMS (LIN SB RAS, Russia, Irkutsk)

54. **Slastina Yulia Leonidovna** PLANT PIGMENTS OF PHYTOPLANKTON AS INDICATORS OF THE ECOLOGICAL STATE OF THE KIZH SKERRY OF LAKE ONEGA (NWPI KarRC RAS, Russia, Petrozavodsk) ([online](#))
55. **Smirnova Darya Konstantinovna** ANAEROBIC OXIDATION OF OIL HYDROCARBONS BY MICROBIAL COMMUNITY OF BOTTOM SEDIMENTS OF LAKE BAIKAL IN THERMOPHILIC CONDITIONS (LIN SB RAS, Russia, Irkutsk)
56. **Solodkova Anastasia Aleksandrovna** MICROPLASTICS IN THE SOIL OF THE LITTORAL ZONE OF LAKE BAIKAL (ISU, Russia, Irkutsk) ([online](#))
57. **Suslova Maria Yuryevna** INFLUENCE OF ANTHROPOGENIC ACTIVITIES ON THE QUALITY OF RIVERS R.P. LISTVYANKA (LIN SB RAS, Russia, Irkutsk)
58. **Teterina Veronika Igorevna** DISTRIBUTION AND NUMBER OF GOLOMYANKA (*COMEPHORUS*, COMEPHORIDAE) IN THE WATER COLUMN OF LAKE BAIKAL IN WINTER BASED ON GOLOMYAKOV TRAPS (LIN SB RAS, Russia, Irkutsk)
59. **Tikhonova Irina Vasilievna** PRESENT AND PAST MICROCYSTINE - PRODUCTION CYANOBACTERIA BLOOMS IN LAKE BAIKAL (LIN SB RAS, Russia, Irkutsk)
60. **Troitskaya Elena Sergeevna** CHANGES IN THE CHARACTERISTICS OF VERTICAL MIXING PROCESSES UNDER CLIMATE CHANGE (LIN SB RAS, Russia, Irkutsk)
61. **Firsova Alena Dmitrievna** CURRENT STATE OF PHYTOPLANKTON OF THE RESERVOIRS OF THE ANGARA CASCADE (LIN SB RAS, Russia, Irkutsk)
62. **Tsydenov Bair Olegovich** TRENDS OF LONG-TERM CHANGES IN THE FORMATION TIME OF THE SPRING THERMOBARS IN LAKE BAIKAL BASED ON ERA5-LAND REANALYSIS DATA (TSU, Russia, Tomsk)
63. **Shary-ool Mariana Olzeyovna** FAUNA OF SMALL BIVALVE MOLLUSKS (BIVALVIA: SPHAERIIDAE) OF LAKE GUSINOYE, BURYATIA (FSCEATB FEB RAS, Russia, Vladivostok)
64. **Sherstyankin Pavel Pavlovich** UNDER-ICE LIGHT FIELD OF LAKE BAIKAL AND ITS OPTICAL STRUCTURE. OCEANIC-TYPE FRONTS ON BAIKAL (LIN SB RAS, Russia, Irkutsk)
65. **Shirokaya Alena Aleksandrovna** INTEGRATIVE APPROACH TO STUDYING THE DIVERSITY OF ACROLOXIDS (MOLLUSCA: GASTROPODA) OF BAIKAL (LIN SB RAS, Russia, Irkutsk)
66. **Shikhovtsev Maksim Yuryevich** FEATURES OF AEROSOL PARTICLE DISTRIBUTION IN THE SURFACE LAYER OF THE ATMOSPHERE OF LAKE BAIKAL IN 2023–2024 (LIN SB RAS, Russia, Irkutsk)
67. **Yaskelyainen Daria Dmitrievna** INFLUENCE OF MICROPLASTICS ON THE LIFE CYCLE PARAMETERS OF CLADOCERA (SFU, Russia, Krasnoyarsk)

## September 12, Friday

**09:00-13:00 Baikal School of Young Scientists (BSYS-2025)**, with the participation of Sintol company:

### **Day 4. Preparation of NGS libraries**

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- Purification of DNA before library preparation.
- Preparation of Illumina type libraries (Nanofor SPS) using a rapid protocol with tagging (Sintera reagent kit).
- Control of the quantity and quality of the resulting libraries (PCR curve analysis, fluorimetrically, electrophoresis in ND conditions on Nanofor 05 and/or classical electrophoresis in agarose gel).

**09:00-13:00 PLENARY SESSION** (large conference hall of the LIN SB RAS):

Chairmen: Matveev Arkady Nikolaevich, Bedoshvili Ekaterina Dzhambulatovna

Secretary: Dolid Evgeniy Aleksandrovich

- 09:00-09:20 Matveev Arkady Nikolaevich** BIODIVERSITY AND STRUCTURE OF FISH POPULATION OF LARGE WATER BODIES AND WATERCOURSES OF EASTERN SIBERIA: MECHANISMS OF FORMATION AND CURRENT STATE (ISU, Russia, Irkutsk)
- 09:20-09:40 Kirilchik Sergey Vasilievich** ENVIRONMENTAL DNA: PROSPECTS AND RESULTS OF RESEARCH ON BAIKAL (LIN SB RAS, Russia, Irkutsk)
- 09:40-10:00 Khrustaleva Anastasia Mikhailovna** DEMOGRAPHIC, HISTORICAL AND ECOLOGICAL FACTORS IN THE FORMATION OF THE POPULATION-GENETIC STRUCTURE OF SOCKET SALMON *ONCORHYNCHUS NERKA* IN ASIA: CONTRASTS BETWEEN THE CORE AND THE PERIPHERY OF THE RANGE (IGB RAS, Russia, Moscow)
- 10:00-10:20 Sukhanova Lyubov Vasilievna** CONSERVATION OF THE GENE POOL OF THE ISACHENKO WHITEFISH *COREGONUS FLUVIATILIS* (COREGONIDAE) - PROBLEMS, PROSPECTS, AQUACULTURAL POTENTIAL (LIN SB RAS, Russia, Irkutsk)
- 10:20-10:40 Glyzina Olga Yuryevna** OPTIMIZATION OF LONG-TERM EXPERIMENTS IN STUDYING THE MECHANISMS OF ADAPTATION OF BAIKAL HYDROBIONTS TO CHANGES IN THE HABITAT (LIN SB RAS, Russia, Irkutsk)
- 10:40-11:00 Bukin Yuri Sergeevich** INTERRELATIONSHIP BETWEEN BACTERIO-PHYTOPLANKTON AND HYDROCHEMICAL PARAMETERS OF THE EPIPILAGEAL OF LAKE BAIKAL IN THE SUB-ICE AND SUMMER PERIOD (LIN SB RAS, Russia, Irkutsk)
- 11:00-11:20 Coffee break** (lobby near the conference hall, LIN SB RAS).
- 11:20-11:40 Bedoshvili Ekaterina Dzhambulatovna** FEATURES OF ULTRASTRUCTURE OF INCLUSIONS OF DIATOM ALGAE (LIN SB RAS, Russia, Irkutsk)
- 11:40-12:00 Tsvetnovich Yuliyana** FROM PHOTONIC STRUCTURES TO MICROMECHANICS: WHAT CAN DIATOM SILICA TELL US (Skoltech, Russia, Moscow) **(online)**
- 12:00-12:20 Politov Dmitry Vladislavovich** GENETIC RELATIONSHIPS OF WHITEFISHES OF SOUTHERN SIBERIA (VIGG, Russia, Moscow) **(online)**
- 12:20-12:40 Ilmast Nikolay Viktorovich** LONG-TERM STUDIES OF THE LAKE SYAMOSERA ECOSYSTEM UNDER CONDITIONS OF MULTIFACTOR IMPACT (IB KarRC RAS, Russia, Petrozavodsk) **(online)**
- 13:00-14:00 Lunch break** (canteen of the Institute of Solar-Terrestrial Physics SB RAS, 126a Lermontov Street; café "Ezhevika", 2 Ulan-Batorskaya Street; Literary café of the I.I. Molchanov-Sibirsky Library; restaurant "Winkel", 257 Lermontov Street).
- 14:00-15:00 Excursion to the Irkutsk Scientific Library named after I.I. Molchanov-Sibirsky.**



**14:00-18:00 Sectional reports, webinars** (Molchanov-Sibirsky Library):

**Section 1.** Biological water resources and their rational use (room №706, 7th floor);

**Section 7.** Approaches and methods for direct and remote control monitoring of the aquatic environment (room №703, 7th floor);

**Section 8.** Atmospheric aerosol, precipitation, and exchange processes in the atmosphere-water surface-biota system (room №723, 7th floor).

**14:00-18:00 Workshop and round table** “Innovations in the field of ichthyology: Genetic and ecological aspects of different fish populations and species” (room №617, 6th floor).

**18:00-19:00 Summing up the Conference** (Molchanov-Sibirsky Library, room №204, 2nd floor).

**19:00** Departure from the Molchanov-Sibirsky Library for the banquet.

**19:30-23:00 Banquet** (Chekist restaurant, Angara River embankment, Gagarin Blvd., 44).

### **Sections schedule**

**Section 1.** Biological water resources and their rational use (Molchanov-Sibirsky Library, room №706, 7th floor):

Chairmen: Mincheva Elena Vyacheslavovna, Chernitsyna Svetlana Mikhailovna

Secretary: Poroshina Anastasia Andreevna

**14:00-14:15 Nikitkina Ellina Georgievna** MICROBIOLOGICAL DIVERSITY OF A FLOODPLAIN LAKE OF THE MIDDLE REACH OF THE OB RIVER (TSU Russia Tomsk)

**14:15-14:30 Zakharenko Alexandra Sergeevna** DIVERSITY OF BACTERIAL COMMUNITIES AND QUALITY OF GROUNDWATER OF THE KULTUK RESERVOIR (BAIKAL RIFT ZONE) (LIN SB RAS, Russia, Irkutsk)

**14:30-14:45 Bukin Sergey Viktorovich** ANOMALIES OF STRUCTURE AND POSSIBLE ROLE OF MICROBIAL COMMUNITIES IN THE FORMATION OF AUTIGENIC SIDERITES IN BOTTOM SEDIMENTS OF VARIOUS AREAS OF LAKE BAIKAL (LIN SB RAS, Russia, Irkutsk)

**14:45-15:00 Galachyants Yuri Pavlovich** MICROEUKARYOTES COMMUNITIES OF SOUTHERN BAIKAL AND ANGARA CASCADE RESERVOIRS IN JUNE 2024 BASED ON METABARCODING DATA (LIN SB RAS, Russia, Irkutsk)

**15:00-15:15 Bedoshvili Ekaterina Dzhamulatovna** CHARACTERISTICS OF VIOLACEIN-PRODUCING PSYCHROTOLERANT STRAIN *JANTHINOBACTERIUM* SP. SP-LBW1 FROM LAKE BAIKAL AND ITS ALGAICIDAL EFFECT ON DIATOM ALGAE (LIN SB RAS, Russia, Irkutsk)

**15:15-15:30 Bashenkhaeva Maria Viktorovna** BACTERIAL COMMUNITIES IN FRESHWATER LAKE BAIKAL DURING THE ICE PERIOD IN COMPARISON WITH OTHER ICE-COVERED FRESHWATER LAKES (LIN SB RAS, Russia, Irkutsk)

**15:30-15:45 Chernitsyna Svetlana Mikhailovna** GENOMES OF SULFUR BACTERIA OF LAKE BAIKAL (LIN SB RAS, Russia, Irkutsk)

**15:45-16:00 Sorokovikova Ekaterina Georgievna** SPECIES DIVERSITY AND TOXINOGENIC POTENTIAL OF CYANOBACTERIA OF THE GENUS *DOLICHOSPERMUM* IN LAKE BAIKAL (LIN SB RAS, Russia, Irkutsk)

**16:00-16:30 Coffee break** (Literary cafe, 7th floor of Molchanov-Sibirsky Library).

**16:30-16:45 Apsolikhova Olga Dmitrievna** SPECIES COMPOSITION OF CYANOBACTERIA AND THE PROBABILITY OF THEIR INFLUENCE ON THE DEATH OF FISH IN

AQUATIC ECOSYSTEMS OF BELARUS (RUE Institute of Fisheries, Belarus, Minsk) ([video](#))

- 16:45-17:00 Timofeeva Margarita Antonovna** MACROZOOBENTHOS IN THE AREAS OF BOTTOM SOIL BURIAL IN THE EASTERN PART OF THE GULF OF FINLAND (OOO "Eco-Express-Service", Russia, St. Petersburg)
- 17:00-17:15 Polyakova Marina Stanislavovna** NEW ECOLOGICAL NICHE *PARAFAEOSPHERIA SPORULOSA*: TAXONOMY, PHYLOGENY AND ENZYMATIC ACTIVITY (BM SB RAS, Russia, Listvyanka)
- 17:15-17:30 Yakhnenko Alena Sergeevna** POPULATION-GENETIC STRUCTURE OF BAIKAL ENDEMIC SPONGES (LIN SB RAS, Russia, Irkutsk)
- 17:30-17:45 Maikova Olga Olegovna** FEATURES OF THE DEVELOPMENT OF DISEASES OF BAIKAL ENDEMIC SPONGES (LIN SB RAS, Russia, Irkutsk)
- 17:45-18:00 Bazarsadueva Selmeg Vladimirovna** FATTY ACIDS, ALDEHYDES AND STEROLS OF THE DEEP-SEA BAIKAL SPONGE *BAIKALOSPONGIA MARTINSONI* EFREMOVA, 2004 (BINM SB RAS, Russia, Ulan-Ude) ([online](#))

**Section 7.** Approaches and methods for direct and remote control monitoring of the aquatic environment (Molchanov-Sibirsky Library, room №703, 7th floor):

Chairmen: Tsydenov Bair Olegovich, Sutyryna Ekaterina Nikolaevna

Secretary: Tyurnev Ivan Nikolaevich

- 14:00-14:15 Nikonova Alena Aleksandrovna** APPROACHES AND METHODS OF DIRECT AND INDIRECT ANALYSIS OF DETERGENTS IN AQUATIC ENVIRONMENTS AND HYDROBIONTS (LIN SB RAS, Russia, Irkutsk)
- 14:15-14:30 Taktov Danil Mikhailovich** EXTERNAL AND INTERNAL STANDARDS FOR CONTROL OF ASPAV IN THE AQUATIC ENVIRONMENT (LIN SB RAS, Russia, Irkutsk)
- 14:30-14:45 Shchapova Ekaterina Pavlovna** HYDROGEL FLUORESCENT SENSORS FOR EXPRESS ANALYSIS OF CHEMICAL PARAMETERS OF WATER AND INTERNAL ENVIRONMENTS OF HYDROBIONTS (Research Institute of Biology ISU, Russia, Irkutsk)
- 14:45-15:00 Tyurnev Ivan Nikolaevich** COMPARISON OF METHODS OF EXPRESS MONITORING OF PHYTOPLANKTON WITH DIRECT COUNTING OF CELLS IN FIELD CONDITIONS AND ON PURE CULTURES (LIN SB RAS, Russia, Irkutsk)
- 15:00-15:15 Golubets Dmitry Igorevich** STUDY OF PHYTOPLANKTON OF THE SOUTHERN BASIN OF LAKE BAIKAL USING REMOTE SENSING (IG SB RAS, Russia, Irkutsk)
- 15:15-15:30 Sutyryna Ekaterina Nikolaevna** REMOTE SENSING OF WATER ENVIRONMENT PARAMETERS IN THE NORTHERN BASIN OF LAKE BAIKAL USING LANDSAT 8.9 DATA (ISU, Russia, Irkutsk)
- 15:30-15:45 Rusanovskaya Olga Olegovna** USING NEURAL NETWORKS TO ACCOUNT FOR ZOOPLANKTON IN MONITORING LAKE BAIKAL (Research Institute of Biology ISU, Russia, Irkutsk)
- 15:45-16:00 Kazaeva Anna Vasilievna** STEP-BY-STEP MATHEMATICAL MODELING OF THE PELAGIAL ZONE OF LAKE BAIKAL: TECHNOLOGY AND RESULTS (BSU, Russia, Irkutsk)
- 16:00-16:30 Coffee break** (Literary cafe, 7th floor of Molchanov-Sibirsky Library).
- 16:30-16:45 Tsydenov Bair Olegovich** NUMERICAL MODELING OF THE INFLUENCE OF CLOUDS ON PLANKTON CONCENTRATION IN LAKE DOLGOE (BELARUS) IN EARLY SPRING (TSU, Russia, Tomsk)



- 16:45-17:00 Bylina Tatyana Sergeevna** MAIN METHODOLOGICAL PROBLEMS OF IMPLEMENTING ENGINEERING AND ECOLOGICAL SURVEYS IN THE DESIGN OF HYDRAULIC STRUCTURES (OOO Eco-Express-Service, Russia, St. Petersburg)
- 17:00-17:15 Chernova Elena Nikolaevna** USE OF CORBICULA SP. FROM MOUTH SECTIONS OF RIVERS IN THE SEA OF JAPAN BASIN (PRIMORSKY KRAI) IN MONITORING HEAVY METALS (PGI FEB RAS, Russia, Vladivostok) ([online](#))
- 17:15-17:30 Bashkurova Anastasia Sergeevna** IMPROVEMENT OF THE METHOD OF CONTROL AND MONITORING OF GROUNDWATER (IWEP FEB RAS, Russia, Khabarovsk) ([video](#))

**Section 8.** Atmospheric aerosol, precipitation, and exchange processes in the atmosphere-water surface-biota system (Molchanov-Sibirsky Library, room №723, 7th floor):

Chairmen: Obolkin Vladimir Arkadevich, Molozhnikova Elena Vladimirovna

Secretary: Olga Viktorovna Kustova

- 14:00-14:15 Kalugina Olga Vladimirovna** ASSESSMENT OF ATMOSPHERIC POLLUTION BY PERSISTENT ORGANIC POLLUTANTS ON THE SOUTHERN COAST OF LAKE BAIKAL BY THEIR ACCUMULATION IN NATURAL OBJECTS (SIPPB SB RAS, Russia, Irkutsk)
- 14:15-14:30 Lyapina Elena Evgenievna** MERCURY IN THE NEEDLES OF GYMNOSPERMS OF THE COAST OF LAKE BAIKAL (IMCES SB RAS, Russia, Tomsk)
- 14:30-14:45 Molozhnikova Elena Vladimirovna** SYNCHRONOUS MEASUREMENTS OF TRACE GASES CONCENTRATIONS IN THE SURFACE LAYER OF THE ATMOSPHERE OF LAKE BAIKAL: ANALYSIS OF FEATURES AND SPATIAL-TEMPORAL VARIABILITY (LIN SB RAS, Russia, Irkutsk)
- 14:45-15:00 Chebunina Nadezhda Sergeevna** MODERN ASSESSMENT OF THE CONTENT OF SOOT AND SUSPENDED MATTER IN THE SNOW COVER ON THE ICE OF SOUTHERN BAIKAL (LIN SB RAS, Russia, Irkutsk)
- 15:00-15:15 Tomberg Irina Viktorovna** MODERN ASSESSMENT OF THE CONTENT OF CHEMICAL COMPONENTS IN THE SNOW COVER AND WATER OF TRIBUTARIES IN THE TERRITORY OF THE BAIKAL STATE BIOSPHERE RESERVE (LIN SB RAS, Russia, Irkutsk)
- 15:15-15:30 Shikhovtsev Maxim Yuryevich** RELATIONSHIP BETWEEN THE DYNAMICS OF AEROSOL PARTICLES CONTENT IN THE ATMOSPHERE OF LAKE BAIKAL AND METEOROLOGICAL PARAMETERS (LIN SB RAS, Russia, Irkutsk)
- 15:30-15:45 Zayahanov Alexander Savelievich** LIDAR OBSERVATIONS OF AEROSOL FIELDS ON LAKE BAIKAL DURING SHIP MEASUREMENTS IN AUGUST 2023 (IPM SB RAS, Russia, Ulan-Ude) ([online](#))
- 15:45-16:00 Galushin Dmitry Alekseevich** DYNAMICS AND TEMPORAL TRENDS OF THE CONTENT OF THE MAIN ACID-FORMING IONS IN ATMOSPHERIC PRECIPITATION OF THE BAIKAL NATURAL TERRITORY: FEATURES AND REGULARITIES BASED ON MONITORING DATA IN 2011-2020 (IGCE, Russia, Moscow) ([online](#))
- 16:00-16:30 Coffee break** (Literary cafe, 7th floor of Molchanov-Sibirsky Library).
- 16:30-16:45 Tsydygov Vadim Vladimirovich** RESULTS OF MEASUREMENTS OF CONCENTRATIONS OF MINOR GASEOUS IMPURITIES AT THE BASE STATION FOR MONITORING THE ATMOSPHERE OF THE BAIKAL NATURAL TERRITORY "BOYARSKY" IN 2024 (IPM SB RAS, Russia, Ulan-Ude) ([online](#))

**16:45-17:00 Kyul Elena Vladimirovna AVALANCHE LAKES (ON THE EXAMPLE OF THE GONACHKHIR RIVER BASIN, WESTERN CAUCASUS) (KBSC RAS, Russia, Nalchik) (online)**

**Workshop and round table “Innovations in the field of ichthyology: Genetic and ecological aspects of different fish populations and species” (Molchanov-Sibirsky Library, room №617, 6th floor):**

Chairmen: Golotin Vasily Aleksandrovich, Sukhanova Lyubov Vasilievna

Secretary: Sapozhnikova Yulia Pavlovna

**14:00-14:15 Levina Kristina Borisovna GENETIC DIVERSITY OF SPIKE FISH OF THE COBITIDAE FAMILY IN THE DNIEPER AND PRIPYAT RIVER BASINS OF BELARUS (NPC NAN Belarus for Bioresources, Belarus, Minsk)**

**14:15-14:30 Bogdanov Bakhtiar Erkinovich GENETIC AND TAXONOMIC DIVERSITY OF CRUCIAN *CARASSIUS* SPP. OF BAIKAL SIBERIA AND MONGOLIA (LIN SB RAS, Russia, Irkutsk)**

**14:30-14:45 Kovalenko Vasily Nikolaevich POPULATIONS OF PIKE-PERCH *SANDER LUCIOPERCA* (L.) IN VARIOUS WATER BODIES OF KARELIA (NWPI KarRC RAS, Russia, Petrozavodsk)**

**14:45-15:00 Babkin Aleksandr Mikhailovich INDICATORS OF INFECTION WITH METACERCARIA OPISTHORCHIS FELINEUS OF CARP FISHES IN THE MIDDLE OB BASIN (NS TSU, Russia, Tomsk)**

**15:00-15:15 Shiretorova Valentina Germanovna FEATURES OF ACCUMULATION OF HEAVY METALS IN ORGANS AND TISSUES OF COMMERCIAL FISH SPECIES OF THE SELENGA RIVER DELTA (BINM SB RAS, Russia, Ulan-Ude)**

**15:15-15:30 Matrosova Inga Vladimirovna SOME BIOLOGICAL CHARACTERISTICS OF SILVER CRUCIAN CARP IN LAKES SOLENOYE AND KHANKA (PRIMORSKY KRAI) (Dalrybvtuz, Russia, Vladivostok) (online)**

**15:30-15:45 Nazarchuk Olga Aleksandrovna MORPHOMETRIC INDICATORS OF THE BALOON RUFF *GIMNOCEPHALUS BALONI* (HOLCIK & HENSEL, 1974) IN THE WATER BODIES OF THE SOUTH-EAST OF THE REPUBLIC OF BELARUS (MSPU, Belarus, Mozyr) (online)**

**15:45-16:00 Poletaev Aleksey Sergeevich PROTECTED SPECIES OF FISH IN THE WATERCOURSES OF THE NATIONAL PARK "NAROCHANSKY" (BELARUS) (NPC NAN Belarus for Bioresources, Belarus, Minsk) (online)**

**16:00-16:30 Coffee break** (Literary cafe, 7th floor of Molchanov-Sibirsky Library).

**16:30-16:45 Gaidenok Nikolay Dmitrievich MORPHO-GENETIC INDICATORS OF YENISEI STURGEON (ILMCEM Krasnoyarsk State Agrarian University, Russia, Krasnoyarsk) (online)**

**17:00-18:00 Round table within the framework of the Workshop “Innovations in the field of ichthyology: Genetic and ecological aspects of different fish populations and species” (Moderators: Golotin V.A., Sukhanova L.V. Secretary: Sapozhnikova Yu.P.).**

## **School Section programme:**

### **September 13, Saturday**

**10:00-10:30 Opening of the School Section of the Conference:** greetings and popular science lecture.

**10:30-13:00 Work of the directions of the School Section of the Conference.**

**13:00-14:00** Excursion to library named after I.I. Molchanov-Sibirsky.

### **September 14, Sunday**

**11:00-12:00 Closing ceremony of the School Section of the Conference:** summing up the results, awarding certificates and diplomas for the best works; popular science film about Lake Baikal.

**12:00-12:30 Programme of the 24th Baikal International Film Festival «People and Environment» named after V.G. Rasputin** (large conference hall of the LIN SB RAS). **"Miry on Baikal. 15 years later" (2022).** A popular science film about the arrival of the scientific leader of the expedition and one of the creators of "Miry" Anatoly Sagalevich to Baikal. Director Vladimir Marin, Russia, 22 min.

**12:30-14:00** Excursion to the centers of collective use (LIN SB RAS).

## **Excursion programme:**

### **September 13, Saturday**

**08:00** - Departure from LIN SB RAS to Listvyanka settlement (Location: 73 km from Irkutsk along the Baikal Highway).

Excursion to the Baikal Museum (Listvyanka settlement).

Excursion to the "Nerpinarium", the Baikal Aquarium with seals (Listvyanka settlement).

Excursion to Bol'shiye Koty settlement (from the base of the fleet of the LIN SB RAS).

**18:00** - Departure from the village of Listvyanka and Irkutsk (from the base of the fleet of the LIN SB RAS).

### **September 14, Sunday**

#### **Free day:**

**You can organize the following trips:**

Jeep tour to autumn Baikal (September 12-14) (<https://baikaltravelers.com/summercitiybrake>),

Circum-Baikal Railway (<https://baikaltrain.ru/reservation>),

Taltsy Architectural and Ethnographic Museum (<https://talci-irkutsk.ru/>),

XX International Music Festival "Stars on Baikal" (September 2-18) (<https://imt38.ru/news-item/khkh-mezhdunarodnyy-festival-zvezdy-na/>) with Denis Matsuev,

Irkutsk Drama Theater (<https://www.dramteatr.ru/>),

Irkutsk Planetarium (<https://irkplanetarium.com/>),

Cable car to the village. Listvyanka (<https://baikalgora.ru/>).

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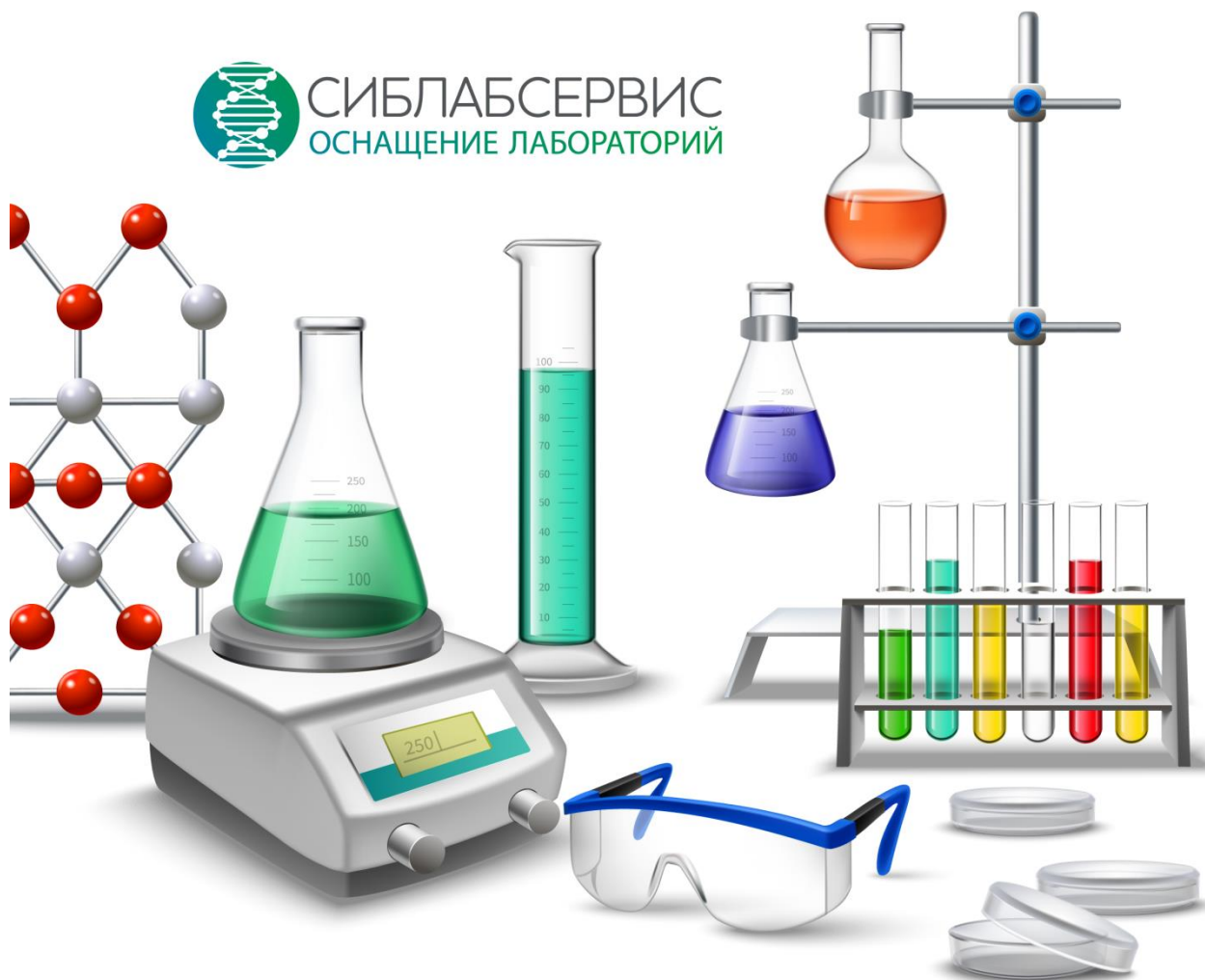
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