

**Limnological Institute of the Siberian Branch of the Russian Academy of Sciences  
(LIN SB RAS)**

**Baikal Museum of the Irkutsk Scientific Centre, Siberian Branch of the Russian  
Academy of Sciences (BM ISC SB RAS)**

**Molchanov-Sibirsky Irkutsk Regional State Multipurpose Scientific Library  
(IRSMSL)**

## **SCIENTIFIC PROGRAMME**

**6<sup>TH</sup> INTERNATIONAL VERESHCHAGIN  
BAIKAL CONFERENCE**

**AND 4<sup>TH</sup> BAIKAL SYMPOSIUM ON MICROBIOLOGY (BSM-2015)  
*MICROORGANISMS AND VIRUSES IN AQUATIC ECOSYSTEMS***

**September 7-12, 2015**

**Irkutsk, 2015**

The 6<sup>th</sup> International Vereshchagin Baikal Conference is hosted by Limnological Institute of Siberian Branch of the Russian Academy of Sciences together with the Baikal Museum of Irkutsk Scientific Centre SB RAS and Molchanov-Sibirsky Irkutsk Regional Multipurpose Scientific Library. This Conference is dedicated to the memory of Gleb Vereshchagin, an outstanding Russian scientist, who organised comprehensive large-scale studies at Lake Baikal. Every 5 years beginning from 1989, this Conference is held by Limnological Institute. Vereshchagin conferences are major scientific events, which cover various aspects of research related to mechanisms of formation, biodiversity, evolution of Lake Baikal and other aquatic ecosystems of the world, using methods of interdisciplinary sciences (including hydrobiology, hydrology, hydrochemistry, physics, geology, climatology, biology, etc.). Such a comprehensive and interdisciplinary approach to studies of aquatic ecosystems helps find quantitative regularities, processes and phenomena occurring in the environment, forecast possible changes caused by natural processes and anthropogenic impact, as well as develop methods for physical, chemical and biological monitoring, evaluate the effect of economic activity on the environment and give scientific background for measures in protection of Lake Baikal and other lakes of the world.

All presentations have been included into nine main sessions. International Scientific School for Young Researchers "Formation, Evolution, Biodiversity, Recent State and Forecast of Development of Aquatic Ecosystems" and "School for Young Researchers-Biologists" are held within the framework of the Conference. Leading scientists of the world have been invited to deliver lectures. The aims of these Schools are to develop and improve the system of preparation of highly qualified specialists in the sphere of biology, chemistry, ecology and rational land use, as well as to involve young researchers in scientific interdisciplinary studies of large water bodies and their basins, in development of cooperation between Russian and foreign scientific centres and universities. School Session is organised for the first time for students from 6-11 grades who are involved in scientific investigations under the leadership of supervisors.

The 4th Baikal Symposium on Microbiology (BSM-2015) "Microorganisms and Viruses in Aquatic Ecosystems" is held within the framework of the Conference. Since 2003, Baikal Symposiums on Microbiology have been held at Limnological Institute SB RAS by Laboratory of Aquatic Microbiology. The aim of the BSM-2015 is to inform the scientists on achievements in investigations of biodiversity, current state and monitoring of aquatic ecosystems.

It is planned to organise on-line lectures within the Skype-session, as well as Round Table Discussion "Ecological Crisis at Lake Baikal: Cause and Effect". Abstracts of the Conference will be published in the Abstract Book before the Conference, and selected papers will be published in special issues of the peer-reviewed journals "Inland Waters - Journal of the International Society of Limnology" and "Contemporary Problems of Ecology".

### **Contact information:**

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## COMMITTEES

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**Chairman** – **Michael Grachev**, Member of the Russian Academy of Sciences, LIN SB RAS, Irkutsk, Russia;  
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**Nikolay Filatov**, Northern Water Problems Institute, Karelian Research Centre RAS, Petrozavodsk, Russia;  
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**Hiroshi Hara**, Tokyo University of Agriculture and Technology, Tokyo, Japan;  
**Ruprecht Jaenicke**, Institute for Physics of the Atmosphere, University Mainz, Mainz, Germany.

### INTERNATIONAL STEERING COMMITTEE OF THE SYMPOSIUM:

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<b>Conference Secretariat</b> - <b>Yulia Sapozhnikova</b> , LIN SB RAS, Irkutsk, Russia;	
<b>Symposium Secretariat</b> - <b>Natalia Belkova</b> , LIN SB RAS, Irkutsk, Russia.	

## Sponsors



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## **September 7, Monday**

**09.00-10.00 Registration of participants** (in the lobby of the conference-hall, Limnological Institute).

**10.00 -11.00 Opening ceremony** (conference-hall, Limnological Institute):

Michael Grachev, Chairman of the Conference, Director of Limnological Institute;

Lyubov Sukhanova, Co-Chairman of the Conference, Deputy Director of Limnological Institute;

Valentin Drucker, Chairman of the Symposium, Academician of RAE, Prof., Limnological Institute SB RAS, Irkutsk, Russia;

Hirotsugu Minami, Kitami Institute of Technology, Kitami, Japan;

Ruprecht Yanicke, Institute for Physics of the Atmosphere, University Mainz, Mainz, Germany;

Hiroshi Hara, Tokyo University of Agriculture and Technology, Tokyo, Japan;

Olga Stasyulevich, Director of Molchanov-Sibirsky Irkutsk Regional State Multipurpose Scientific Library;

Dmitry Berdnikov, Mayor of Irkutsk.

**11.00-11.30 Coffee break** (in the lobby of the conference-hall, Limnological Institute).

**11.30-13.00 International Scientific School for Young Researchers within the framework of the Conference “Formation, Evolution, Biodiversity, Recent State and Forecast of Development of Aquatic Ecosystems”** (conference-hall, Limnological Institute):

**11.30-12.00 Prof. Tamara Khodzher** Current chemical composition of the habitats for Baikal organisms (Limnological Institute SB RAS, Irkutsk, Russia);

**12.00-12.30 Dr. Ruprecht Jaenicke** Primary biological atmospheric aerosols (Institute for Physics of the Atmosphere, University Mainz, Mainz, Germany);

**12.30-13.00 Dr. Hirotsugu Minami** Chemical analysis of pore water and gas hydrate water obtained from the Kukuy mud volcanoes in Lake Baikal (Kitami Institute of Technology, Kitami, Japan).

**13.00-14.30 Lunch** – canteens in the Institute of Solar-Terrestrial Physics (126a, Lermontov St.) and Limnological Institute; Café “Yezhevika” (2, Ulan-Batorskaya St.).

**15.00-18.00 City tour.**

**18.00-21.00 Welcome reception** (conference-hall, Limnological Institute).

**19.00-21.00 Popular science film about Lake Baikal by Igor Khanaev** (conference-hall, Limnological Institute). Lab tour in Limnological Institute.

## September 8, Tuesday

**9.00-13.00 International Scientific School for Young Researchers within the framework of the Conference “Formation, Evolution, Biodiversity, Recent State and Forecast of Development of Aquatic Ecosystems”** (conference-hall, Limnological Institute):

**09.00-09.30 Dr. Tatiana Sitnikova** Benthic communities of the deep-water zone in Lake Baikal: their structure and functioning (Limnological Institute SB RAS, Irkutsk, Russia);

**09.30-10.00 Dr. Larisa Prozorova** Genesis of freshwater malacofauna in Northeast Asia from Baikal to Biwa (Institute of biology and soil science, Vladivostok, Russia);

**10.00-10.30 Dr. Ivana Karanovic** Barcoding of ancient lake ostracods (Crustacea) reveals cryptic speciation with extremely low distances (Hanyang University, Seoul, Korea);

**10.30-11.00 Dr. Jonathan Todd** Unexpectedly high species diversity revealed in an endemic gastropod genus (*Paramelania*) from Lake Tanganyika: the complementary role of old and new collections (Department of Earth Sciences, Natural History Museum, London, UK).

**11.00-11.30 Coffee break** (in the lobby of the conference-hall, Limnological Institute).

**11.30-12.00 Prof. Yelena Likhoshway** Interactions of microscopic organisms in aquatic ecosystems (Limnological Institute SB RAS, Irkutsk, Russia);

**12.00-12.30 Dr. Marina Usoltseva** Fossil diatoms of the Baikal region (Limnological Institute SB RAS, Irkutsk, Russia).

**13.00-14.30 Lunch** - canteens in the Institute of Solar-Terrestrial Physics (126a, Lermontov St.) and Limnological Institute; Café “Yezhevika” (2, Ulan-Batorskaya St.).

**14.30-19.00 4th Baikal Symposium on Microbiology (BSM-2015) "Microorganisms and Viruses in Aquatic Ecosystems" and Session 3.** Microorganisms: distribution and symbiotic relationships in aquatic ecosystems (conference-hall, Limnological Institute):

**Session 1:** Diversity of microbial communities in rivers, lakes and reservoirs;

**Session 2:** Microorganisms and their associations with hydrobionts.

**14.30-18.00 Sessions, webinars (Molchanov-Sibirsky Irkutsk Regional Multipurpose Scientific Library):**

**Session 1.** Biodiversity and problems of speciation in ancient closed ecosystems: molecular and classical approaches and models (room 723, 7<sup>th</sup> floor, Southern Tower);

**Session 2.** Evolution of genes, genomics, metagenome analysis of biological communities (room 706, 7<sup>th</sup> floor, Western Tower);

**Session 4.** Methane in aquatic and terrestrial ecosystems (room 703, 7<sup>th</sup> floor, Southern Tower).

**14.30-18.00 School for Young Researchers-Biologists (Molchanov-Sibirsky Irkutsk Regional Multipurpose Scientific Library, room 203, 3<sup>rd</sup> floor): Prof. Elena Ryabchikova** Plasma membrane: macromolecular structure and function (Institute of Chemical Biology and Fundamental Medicine SB RAS, Novosibirsk, Russia).

**18.00-20.00 Dinner.**

**20.00-21.30 Documentary film “Thin Ice”** by David Sington and Simon Lamb (New Zealand, Great Britain, 2013). Guests of the Conference – conveners of the Baikal International Festival of Documentary, Popular Science and Educational Films “Man and Nature” (conference-hall, Limnological Institute).

## September 9, Wednesday

**9.00-13.00 International Scientific School for Young Researchers within the framework of the Conference “Formation, Evolution, Biodiversity, Recent State and Forecast of Development of Aquatic Ecosystems”** (conference-hall, Limnological Institute):

**09.00-09.30 Prof. Tamara Zemskaya** Benthic microbial communities as natural biofilters of Lake Baikal (Limnological Institute SB RAS, Irkutsk, Russia);

**09.30-10.00 Prof. Nikolay Pimenov** Anaerobic oxidation of methane in freshwater bodies (Winogradsky Institute of Microbiology, Moscow, Russia);

**10.00-10.30 Prof. Sergey Gulin** Environmental role of methane seeps in the Black sea (A.O. Kovalevsky Institute of Marine Biological Research of RAS, Sevastopol, Russia);

**10.30-11.00 Prof. Valentin Drucker** Phages of Lake Baikal: recent scientific mystery of the microcosm (Limnological Institute SB RAS, Irkutsk, Russia).

**11.00-11.30 Coffee break** (in the lobby of the conference-hall, Limnological Institute).

**11.30-12.00 Prof. Andrew Fedotov** Paleoclimatic reconstructions based on case study of lakes in East Siberia (Limnological Institute SB RAS, Irkutsk, Russia);

**12.00-12.30 Dr. Ellinor Michel** The shell beds of Lake Tanganyika: palaeoecology, environmental change and living systems (Department of Life Sciences, Natural History Museum, London, UK);

**12.30-13.00 Dr. Hiroshi Hara** Precipitation chemistry in Irkutsk: the role of calcium carbonate (Tokyo University of Agriculture and Technology, Tokyo, Japan).

**13.00-14.30 Lunch** – canteens in the Institute of Solar-Terrestrial Physics (126a, Lermontov St.) and Limnological Institute; Café “Yezhevika” (2, Ulan-Batorskaya St.).

**14.30-19.00 4th Baikal Symposium on Microbiology (BSM-2015) "Microorganisms and Viruses in Aquatic Ecosystems" and Session 3.** Microorganisms: distribution and symbiotic relationships in aquatic ecosystems (conference-hall, Limnological Institute):

**Session 3.** Autochthonous and allochthonous viruses in aquatic ecosystems;

**Sesession 4.** Microbiological and virological monitoring of water bodies.

**14.30-18.00 Sessions, webinars (Molchanov-Sibirsky Irkutsk Regional Multipurpose Scientific Library):**

**Session 1.** Biodiversity and problems of speciation in ancient closed ecosystems: molecular and classical approaches and models (room 723, 7<sup>th</sup> floor);

**Session 5.** Cycle of organic matter and nutrients (room 706, 7<sup>th</sup> floor);

**Session 6.** Hydrophysics and hydrochemistry of deep-water bodies (room 703, 7<sup>th</sup> floor, Southern Tower);

**Session 7.** Transport of substances and energy at the interface (room 706, 7<sup>th</sup> floor).

**14.30-18.00 School for Young Researchers-Biologists (Molchanov-Sibirsky Irkutsk Regional Multipurpose Scientific Library, room 203, 3<sup>rd</sup> floor): Prof. Elena Ryabchikova** Endocytosis and vesicular transport in the cell (Institute of Chemical Biology and Fundamental Medicine SB RAS, Novosibirsk, Russia).

**17.30-18.30 Start of Poster session** (lobby on the 7<sup>th</sup> floor).

**18.30-20.00 Dinner.**

**20.00-21.30 Documentary film «Szigetköz»** by Mosonyi Szabolcs (Hungary, Slovakia, Germany, 2013). Guests of the Conference – conveners of the Baikal International Festival of Documentary, Popular Science and Educational Films “Man and Nature” (conference-hall, Limnological Institute).

## **September 10, Thursday**

**08.00** Departure from Hotels and Limnological Institute to the Museum of Wooden Architecture “Taltsy” (47 km from Irkutsk).

**10.00-11.00** Museum “Taltsy”.

**11.00-12.00** Lunch (Museum “Taltsy”).

**12.00** - Departure from the Museum “Taltsy” to the settlement of Listvyanka.

**12.30-13.30** Baikal Museum (Listvyanka).

**14.00-14.30** Seal aquarium (Listvyanka).

**14.30** - Departure to the Biological Station in Bolshiye Koty (Lake Baikal).

**14.30-18.00** Boat trip to the Biological Station in Bolshiye Koty (Lake Baikal).

**17.00-18.00** Dinner.

**18.00** Departure to Listvyanka.

**19.30-21.30** Evening performance *Theatre of Art Song at Lake Baikal* (Listvyanka).

**21.30** - Departure from *Theatre of Art Song at Lake Baikal* (Listvyanka) to Irkutsk.



## **September 11, Friday**

### **10.00-13.00 Skype-session:**

- Dr. Marianne Moore** Recent change in the pelagic zone of Lake Baikal and its relationship to environmental drivers (Department of Biological Sciences, Wellesley College, Wellesley, Massachusetts, USA);
- Dr. Gordon R.** History and future of understanding the mechanism of diatom motility (University of Manitoba, Winnipeg, Canada);
- Dr. Gordon R.** Progress report on diatom biofuel producing solar panels (University of Manitoba, Winnipeg, Canada);
- Dr. Wanzenböck Jo.** Larval year class strength and spatiotemporal distribution patterns of European whitefish (*Coregonus lavaretus* L.) in pre-alpine Austrian lakes (Research Institute for Limnology Mondsee, University of Innsbruck, Mondsee, Austria).

**11.00-11.30 Coffee break** (in the Library lobby, 7<sup>th</sup> floor).

**10.00-13.00 Tour in Molchanov-Sibirsky Irkutsk Regional Multipurpose Scientific Library.**

**13.00-14.30 Lunch** – canteens in the Institute of Solar-Terrestrial Physics (126a, Lermontov St.) and Limnological Institute; Café “Yezhevika” (2, Ulan-Batorskaya St.);

**14.30-19.00 International Scientific School for Young Researchers within the framework of the Conference “Formation, Evolution, Biodiversity, Recent State and Forecast of Development of Aquatic Ecosystems”** (conference-hall, Limnological Institute):

**14.30-15.00 Dr. Nikolay Granin** Hydrophysical studies at Lake Baikal (Limnological Institute SB RAS, Irkutsk, Russia);

**15.00-15.30 Dr. Larisa Nazariova** Patterns of water level variability in the largest European lakes: Ladoga and Onega (Northern Water Problems Institute, Karelian Research Centre RAS, Petrozavodsk, Russia);

**15.30-16.00 Dr. Akihiro Hachikubo** Regional characteristics of hydrate-bound hydrocarbons in Lake Baikal (Kitami Institute of Technology, Kitami, Japan);

**16.00-16.30 Prof. Anatoliy Obzhirov** Pulsating condition methane fluxes in the Okhotsk sea (V.I. Ilichev Pacific Okeanological Institute FEB RAS, Vladivostok, Russia).

**16.30-17.00 Coffee break** (in the lobby of the conference-hall, Limnological Institute).

**17.00-17.30 Prof. Dmitry Sherbakov** Evolution of noncoding DNA under the pressure of positive Darwinian selection (Limnological Institute SB RAS, Irkutsk, Russia);

**17.30-18.00 Prof. Dmitry Bogolyubov** Nuclear structures of oocytes in Turbellaria-Prorhynchidae (Institute of Cytology RAS, St. Petersburg, Russia);

**18.00-18.30 Dr. Anton Lyakh** Taxonomic expert systems: current state and advanced development (Kovalevsky Institute of Marine Biological Research, Sevastopol, Russia);

**18.30-19.00 Prof. Vadim Annenkov** Fluorescent dyes on the basis of polyamines for studying morphology of natural siliceous structures (Limnological Institute SB RAS, Irkutsk, Russia).

**19.00-20.00 Dinner.**

**20.00-21.30 Documentary film “Legends of Lake Baikal”** by Julia Byvsheva (Russia, 2013). Guest of the Conference – representatives of the Pribaikalsky National Park (conference-hall, Limnological Institute).

## **September 12, Saturday**

**10.00-16.00 Session (Molchanov-Sibirsky Irkutsk Regional Multipurpose Scientific Library):**

**Session 10.** Results presented by school researchers (rooms 204, 703, 706, 723).

**09.00-11.00 International Scientific School for Young Researchers within the framework of the Conference “Formation, Evolution, Biodiversity, Recent State and Forecast of Development of Aquatic Ecosystems”** (conference-hall, Limnological Institute):

**09.00-09.30 Dr. Vadim Fialkov** New exposition of the Baikal Museum as a reflection of the fundamental achievements of the world science (Baikal Museum ISC SB RAS, Listvyanka, Russia);

**09.30-10.00 Dr. Valery Sinyukovich** Reconstruction of Lake Baikal level after regulation and optimal regime for use of its water resources (Limnological Institute of RAS SB, Irkutsk, Russia);

**10.00-10.30 Dr. Michael Shimaraev** (Limnological Institute SB RAS, Irkutsk, Russia) Changes of ice thermal and water regime of Lake Baikal in 1950-2014;

**10.30-11.00 Prof. Oleg Timoshkin** Comprehensive studies of the littoral zone of Lake Baikal: indirect evidence of latent eutrophication? (Limnological Institute, Irkutsk, Russia).

**11.00-11.30 Coffee break** (in the lobby of the conference-hall, Limnological Institute).

**11.30-13.00 Round table discussion “Ecological Crisis at Lake Baikal: Cause and Effect”** (small conference-hall, Limnological Institute).

**13.00-14.30 Lunch** – canteens in the Institute of Solar-Terrestrial Physics (126a, Lermontov St.) and Limnological Institute; Café “Yezhevika” (2, Ulan-Batorskaya St.).

**14.30-18.00 4th Baikal Symposium on Microbiology (BSM-2015) "Microorganisms and Viruses in Aquatic Ecosystems" and Session 3.** Microorganisms: distribution and symbiotic relationships in aquatic ecosystems (conference-hall, Limnological Institute):

**Session 5.** Advanced methods applied for studying aquatic microorganisms and viruses.

**14.30-16.15 Sessions, webinars (Molchanov-Sibirsky Irkutsk Regional Multipurpose Scientific Library):**

**Session 8.** Paleolimnology, evolution of lacustrine ecosystem, reconstructions of environmental changes and climate of the past (room 706, 7<sup>th</sup> floor);

**Session 9.** Large-scale changes in freshwater ecosystems under the effect of natural and anthropogenic factors (room 706, 7<sup>th</sup> floor).

**14.30-18.00 School for Young Researchers-Biologists (Molchanov-Sibirsky Irkutsk Regional Multipurpose Scientific Library, room 203, 3<sup>rd</sup> floor): Prof. Elena Ryabchikova** Exosomes as a system of intercellular communication in the organism (Institute of Chemical Biology and Fundamental Medicine SB RAS, Novosibirsk, Russia).

**16.30-18.00 Finish of Poster session** (lobby on the 7<sup>th</sup> floor).

**18.00 Departure from Molchanov-Sibirsky Scientific Library to the restaurant of Hotel Irkutsk.**

**19.00-23.00 Farewell party in the restaurant of Hotel Irkutsk.**

## **September 12, Saturday**

### **Session 10. Results presented by school researchers**

**10.00-13.00** Oral presentations of the School Session (rooms 723, 703, 706, 204),

**13.00-14.30** Lunch (Molchanov-Sibirsky Library, Literary Cafe, 7<sup>th</sup> floor),

**14.30-16.00** Closing ceremony of the Session 10. Results presented by school researchers  
(Molchanov-Sibirsky Library, Room 204, 2<sup>th</sup> floor).

### **Optional tours**

#### **September 5-6 (Saturday and Sunday):**

**- One-day boat trip to Bolshoye Goloustnoye with gas hydrate sampling (overnight stay on board the ship) (1,500 roubles). This trip is primarily for participants of Session 4 (Methane in aquatic and terrestrial ecosystems). However, in case of vacant beds on board the ship, other participants are welcome.**

September 5-6. The boat sails in the evening on September 5 and comes back to the pier in the evening on September 6, 2015.

#### **September 13, Sunday:**

**- One-day train trip to the Circum-Baikal Railway (3,500 roubles)**

The trip starts from Irkutsk at 08:30 and ends at the railway station in Irkutsk at 22:00.

<http://www.krugobaikalka.ru/weekend/express.php>

**- Three-day boat trip around Lake Baikal, September 13-15 (Sunday, Monday, and Tuesday). 23,000 roubles, including 3 meals a day.**

## Schedule session and poster presentations:

**September 8, Tuesday** 6<sup>th</sup> International Vereshchagin Baikal Conference, Sessions (Molchanov-Sibirsky Irkutsk Regional Multipurpose Scientific Library):

Time	Room 723, 7 <sup>th</sup> floor	Room 706, 7 <sup>th</sup> floor	Room 703, 7 <sup>th</sup> floor
	<b>Session 1.</b> Biodiversity and problems of speciation in ancient closed ecosystems: molecular and classical approaches and models. Chair: Dr. Tatiana Sitnikova	<b>Session 2.</b> Evolution of genes, genomics, metagenome analysis of biological communities Chair: Prof. Dmitry Sherbakov	<b>Session 4.</b> Methane in aquatic and terrestrial ecosystems Chair: Prof. Anatoliy Obzhirov
14.30-14.45	Lubyaga J.A., Lavrova M.S., Orlova E.A., Madyarova E.V., Axenov-Gribanov D.V., Timofeyev M.A. COMPARATIVE STUDY OF NONSPECIFIC MECHANISMS OF STRESS-ADAPTATIONS IN REPRESENTATIVES OF REMOTE <i>Gmelinoides fasciatus</i> POPULATIONS UNDER HYPERTHERMIC CONDITIONS (Irkutsk State University, Institute of Biology, Irkutsk, Russia; 2Irkutsk State University, Irkutsk, Institute of Limnology RAS, St. Petersburg, Russia)	Mikhailov I.S., Zakharova Yu.P., Galachyants Yu.P., Petrova D.P., Likhoshway Ye.V. ANALYSIS OF UNICELLULAR EUKARYOTIC ASSEMBLAGES IN THE EPILIMNION OF LAKE BAIKAL USING PYROSEQUENCING OF 18S RRNA GENE FRAGMENTS (Limnological Institute SB RAS, Irkutsk, Russia)	Fedorov Yu.A., Garkusha D.N., Dotsenko I.V., Afanasyev K.A. Methane in sediments aquatic ecosystems with HIGH CONTENT sulfides (Institute of Geoscience, Southern Federal University, Rostov-on-Don, Russia)
14.45-15.00	Sukhanova L.V., Smirnova-Zalumi N.S., Kirilchik S.V., Glyzina O.Yu., Sidorova T.V.I., Sapozhnikova Yu.P., Yakhnenko V.M., Smirnov V.V., Blagodetelev A.I. BIOTECHNOLOGY IN AQUACULTURE OF COREGONID FISHES: APPROACHES TO BIODIVERSITY CONSERVATION & STUDY OF EVOLUTION (Limnological Institute SB RAS, Irkutsk; Baikal Museum ISC SB RAS, Listvyanka, Vostsibribcenter, Ulan-Ude, Russia)	Saito T., Prozorova L., Kameda Yu., Morii Yu., Fukuda H., Chiba S. A MOLECULAR PHYLOGENY OF PLANORBIDAE (GASTROPODA, PULMONATA) IN FAR EAST (Department of Ecology and Evolutionary Biology, Graduate School of Life Science, Tohoku University, Sendai, Miyagi, Japan, Russian Academy of Sciences, Institute of biology and soil science, malacological group, Vladivostok, Russia, Center for Molecular Biodiversity Research, National Museum of Nature and Science, Tsukuba, Ibaraki, Japan, Conservation of Aquatic Biodiversity, Faculty of Agriculture, Okayama University, Okayama, Japan)	Malakhova T.V., Kanapatsky T.A., Egorov V.N., Malakhova L.V., Artemov Yu.G., Evtushenko D.B., Gulin S.B., Pimenov N.V. SHALLOW METHANE SEEPS OF CRIMEAN PENINSULA: GENESIS, MICROBIAL PROCESSES AND GAS FLUX ESTIMATION (A.O. Kovalevsky Institute of Marine Biological Research of RAS, Sevastopol, Winogradsky Institute of Microbiology RAS, Moscow, Russia)

15.00-15.15	Naumova E.Yu., Zaidykov I.Yu. THE COMPARATIVE ANALYSIS OF THE MOUTHPART STRUCTURE OF THE TWO <i>EPISCHURA</i> SPECIES (COPEPODA, CALANOIDA) FROM LAKES WITH THE DIFFERENT TROPHIC STATUS (Limnological Institute SB RAS, Irkutsk, Russia)	Gurkov A.N., Fernández Casas I., Takhteev V.V., Vereshchagina K.P., Madyarova E.V., Luckenbach T. POPULATION STRUCTURE OF ENDEMIC BAIKALIAN AMPHIPODS <i>Eulimnogammarus verrucosus</i> AND <i>E. cyaneus</i> AND PALEARCTIC <i>Gammarus lacustris</i> ALONG THE WEST COAST OF LAKE BAIKAL (Institute of Biology at Irkutsk State University, Irkutsk, Russia; Helmholtz Centre for Environmental Research, Leipzig, Germany)	Pavlova O.N., Bukin S.V., Lomakina A.V., Shubenkova O.V., Manakov A.Y., Moskvina V.I., Morozov I.V., Mamaeva E.V., Nikitina A.A., Khabuev A.V., Zemskaya T.I. DEEP THERMOPHILIC MICROORGANISMS IN THE SURFACE SEDIMENTS OF LAKE BAIKAL: BIOLOGICAL DIVERSITY AND ROLE IN THE TRANSFORMATION OF ORGANIC MATTER (Limnological Institute SB RAS, Irkutsk; Nikolaev Institute of Inorganic Chemistry SB RAS, Novosibirsk; Trofimuk Institute of Petroleum Geology and Geophysics SB RAS, Institute of Chemical Biology and Fundamental Medicine SB RAS, Novosibirsk, Russia)
15.15-15.30	Basharina T.N., Glyzina O.Yu., Bazarsadueva S.V., Glyzin A.V., Itskovich V.B., Radnaeva L.D. ON THE STUDY OF LIPIDS ROLE IN THE DEVELOPMENT OF RESPONSES OF SPONGES COMMUNITIES TO EXTERNAL IMPACT (Limnological Institute of RAS SB, Irkutsk; Baikal Institut for Nature Management OF RAS SB, Ulan-Ude, Russia)	Butina T.V., Bukin Yu.S., Kabilov M.R., Tupikin A.Ye., Potapov S.A., Belykh O.I., Belikov S.I. METAGENOMIC ANALYSIS OF VIRAL COMMUNITIES IN LAKE BAIKAL (Limnological Institute SB RAS, Irkutsk; CSU «Genomics», Institute of Chemical Biology and Fundamental Medicine SB RAS, Novosibirsk, Russia)	Fedorov Yu.A., Garkusha D.N., Tambieva N.S. DISTRIBUTION OF METHANE CONCENTRATION IN THE LAKE BAIKAL IN MODERN TIMES (Institute of Earth Sciences, Southern Federal University, Rostov-on-Don; Roshydromet Hydrochemical Institute, Rostov-on-Don, Russia)
15.30-15.45	Pitul'ko S.I. THE INFLUENCE OF VARIOUS ENVIRONMENTAL FACTORS ONTO MORPHOLOGICAL VARIABILITY AND FECUNDITY OF DAPHNIA POPULATIONS IN LAKE BAIKAL (Limnological Institute SB RAS, Irkutsk, Russia)	Kirilchik S.V. SPECIFIC CHARACTERISTICS OF MOLECULAR EVOLUTION IN COTTOID FISH OF LAKE BAIKAL (Limnological Institute SB RAS, Irkutsk, Russia)	Makarov M.M., Muyakshin S.I., Granin N.G., Kucher K.M., Aslamov I.A. SEARCH AND MONITORING OF GAS BUBBLE ESCAPES FROM BOTTOM SEDIMENTS IN LAKE BAIKAL (Limnological Institute SB RAS, Irkutsk, Russia)
15.45-16.00	Kurilkina M.I., Zakharova Yu.P. ALGICIDE BACTERIA AND THEIR IMPACT ON THE DIATOM <i>Synedra acus</i> (Limnological Institute SB RAS, Irkutsk, Russia)	Morozov A.A. EVOLUTIONARY HISTORY OF THE EUKARYOTIC CHITIN SYNTHASES (Limnological institute SB RAS, Irkutsk, Russia)	Shakirov R., Obzhairov A. DISCUSSION FOR ORIGIN OF THE MODERN HYDROCARBON GASES VENTING IN THE LITOSPHERE OF THE FAR EASTERN MARGINAL SEAS (V.I. Il'ichev Pacific Oceanological Institute far Eastern Branch of Russian Academy of Sciences, Vladivostok, Russia)

**16.00-16.30 Coffee break (in the Library lobby, 7<sup>th</sup> floor)**

Time	Room 723, 7 <sup>th</sup> floor	Room 706, 7 <sup>th</sup> floor	Room 703, 7 <sup>th</sup> floor
	<b>Session 1.</b> Biodiversity and problems of speciation in ancient closed ecosystems: molecular and classical approaches and models. Chair: Dr. Tatiana Sitnikova	<b>Session 2.</b> Evolution of genes, genomics, metagenome analysis of biological communities. Chair: Dr. Sergey Kirilchik	<b>Session 4.</b> Methane in aquatic and terrestrial ecosystems. Chair: Dr. Hirotsugu Minami
16.30-16.45	Fedorova G.A., Sukhanova Ye.V., Zimens Ye.A., Shishlyannikova T.A., Molozhnikov V.N., Parfenova V.V. PRIMARY SCREENING OF PRE-BAIKALIAN MEDICINAL PLANTS FOR PRESENCE OF ANTIBIOTIC ACTIVITY (Limnological Institute SB RAS, Irkutsk, Russia; A.A. Yezhevsky Irkutsk State Agricultural University (IkrSAU), Irkutsk, Russia)	Petunina J.V., Bukin Y.S., Kamaltynov R.M. THE EVOLUTION FEATURES OF MITOCHONDRIAL MOLECULAR MARKER COI FROM ENDEMIC BAIKAL AMPHIPODS OF THE FAMILIA MICRUROPODIDAE Limnological Institute SB RAS, Irkutsk, Russia	Bukin S.V., Pavlova O.N., Kalmychkov G.V., Ivanov V.G., Hachikubo A., Khabuev A.V., Morozov I.V., Zemskaya T.I. METHANOGENESIS IN THE BOTTOM SEDIMENTS OF LAKE BAIKAL WITH DIFFERENT GEOCHEMICAL CONDITIONS (Limnological institute SB RAS, Irkutsk, Russia; Vinogradov Institute of Geochemistry SB RAS, Irkutsk, Russia; Kitami Institute of Technology, Kitami, Japan; Institute of Chemical Biology and Fundamental Medicine SB RAS, Novosibirsk, Russia)
16.45-17.00	Bogdanov B.E. BAYKAL COTTOID FISHES: BIODIVERSITY, SPECIATION, SYSTEMATICS (Limnological Institut SB RAS, Irkutsk, Russia)	Maikova O., Bukshuk N., Itskovich V., Khanaev I., Belikov S., Sherbakov D. APPARENT DESPECIATION IN BAIKALIAN EXPATRIATE SPONGES (Limnological institution SB RAS, Irkutsk, Russia)	Khlystov O.M., Khabuev A.V., Belousov O.V., Minami H., Hachikubo A., Sakagami H., Yamashita S., Vorobyova S.S., Kalmychkov G.V., De Batist M., Naudts L. GEOLOGICAL CHARACTERIZATION OF HYDRATE-BEARING STRUCTURES FROM THE ACCOMMODATION ZONE OF LAKE BAIKAL (AKADEMICHESKY RIDGE) (Limnological Institute SB RAS, Irkutsk, Russia; New Energy Resources Research Center, Kitami Institute of Technology, Kitami, Japan; Vinogradov Institute of Geochemistry, SB RAS, Irkutsk, Russia; Renard Centre of Marine Geology (RCMG), Universiteit Gent, Belgium; Royal Belgian Institute of Natural Sciences – Operational Directorate Natural Environment (RBINS – OD Nature), Ostend, Belgium)
17.00-17.15	Chumakov V.F., Gaydenok N.D. TO A QUESTION ON THE FORMALIZATION OF DIMORPHISM BREAM KRASNOYARSK RESERVOIR (Siberian State Technological University, Krasnoyarsk, Russia)	Nazarova A.F. GENDER PECULIARITIES OF HUMAN POPULATIONS (The Interdepartmental Group on Comprehensive Research into Populations, the Academy of Fundamental Sciences, Moscow, Russia)	

17.15-17.30	Gaydenok N.D., Zadelenov V.A. ON THE ISSUE OF RACE YENISEI FISH FAUNA (Siberian State Technological University, Krasnoyarsk, Russia)		
17.30-17.45	Chmarkova G.M., Gaydenok N.D. POPULATION CONTINUUM YENISEI STURGEON AND GEOLOGICAL GENESIS OF RACE FORMATION (Siberian State Technological University, Krasnoyarsk, Russia)		
17.45-18.00	Perezhilina E.V., Perezhilin A.I., Gaydenok N.D. DYNAMICS OF THE NUMBER OF WHITEFISH ISACHENKO – INDICATOR OF ECOSYSTEM TAILRACE KRASNOYARSK HPS (Siberian State Technological University, Krasnoyarsk, Russia)		

**September 8, Tuesday 4<sup>th</sup> Baikal Symposium on Microbiology (BSM-2015)** "Microorganisms and Viruses in Aquatic Ecosystems" and **Session 3.** Microorganisms: distribution and symbiotic relationships in aquatic ecosystems (conference-hall, Limnological Institute):

**Session 1:** Diversity of microbial communities in rivers, lakes and reservoirs;

**Session 2:** Microorganisms and their associations with the hydrobionts.

Chairs: Dr. Lyubov Busoleva, Dr. Tamara Zemskaya

Secretariat: Svetlana Chernitsyna, Olga Shubenkova

- 14:30 – 14:50 **Parfenova V.V., Belkova N.L., Belukh O.I., Drucker V.V. MICROBIAL COMMUNITIES IN BIOFILMS FROM LAKE BAIKAL** *Limnological Institute SB RAS, Irkutsk, Russia*
- 14:50 – 15:10 **Zykov V.V., Rogozin D.Y. RECONSTRUCTION OF ECOLOGICAL STATE OF LAKE SHIRA (SOUTH SIBERIA) BY THE ANALYSIS OF FOSSIL PHOTOPIGMENTS OF PHOTOTROPHIC MICROBIAL COMMUNITY OF BOTTOM SEDIMENTS** *Institute of biophysics of Siberian Branch of RAS, Krasnoyarsk, Russia*
- 15:10 – 15:30 **Bryukhanov A.L.<sup>1,2</sup>, Pimenov N.V.<sup>2</sup>, Dolla A.<sup>3</sup> ADAPTATION MECHANISMS OF ANAEROBIC SULFATE-REDUCING BACTERIA TO LIFE IN OXYGEN-CONTAINING WATER ECOSYSTEMS** *<sup>1</sup>Lomonosov Moscow State University, Faculty of Biology, Moscow, Russia; <sup>2</sup>Winogradsky Institute of Microbiology of RAS, Moscow, Russia; <sup>3</sup>Laboratoire de Chimie Bactérienne, CNRS, Marseille, France*
- 15:30 – 15:50 **Andreeva D.V. THE INFLUENCE OF ORGANIC MATTERS ON THE NUMBER SULPHATE-REDUCING BACTERIA IN THE AMUR RIVER DURING FLOOD IN 2013** *Institute of water and ecology problems FEB RAS, Khabarovsk, Russia*
- 15:50 – 16:10 **Rumyantseva E.V., Kosolapov D.B. SIZE-MORPHOLOGICAL STRUCTURE AND ACTIVE FRACTION OF LITTORAL BACTERIOPLANKTON OF LARGE LOWLAND RESERVOIR** *I.D. Papanin Institute for Biology of Inland Waters of RAS, Borok, Russia*
- 16:10 – 16:30 **Galachyants A.D., Belkova N.L., Sukhanova E.V., Parfenova V.V. METAGENOMIC ANALYSIS OF BACTERIONEUSTONIC COMMUNITIES OF LAKE BAIKAL** *Limnological Institute SB RAS, Irkutsk, Russia*
- 16:30 – 16:50 **Coffee break** (in the lobby of the conference-hall, Limnological Institute)
- 16:50 – 17:10 **Rybakova I.V.<sup>1</sup>, Mylnikova Z.M.<sup>1</sup>, Rybakova K.S.<sup>2</sup> COMPONENTS OF THE MICROBIAL LOOP IN FOULING ORGANISMS OF MACROPHYTES IN THE RYBINSK RESERVOIR** *<sup>1</sup>Institute for Biology of Inland Waters RAS, Borok, Russia, <sup>2</sup>Yaroslavl State Pedagogical University named after K.D. Ushinsky, Yaroslavl, Russia*
- 17:10 – 17:30 **Zakharenko A.S.<sup>1</sup>, Galachyants YU.P.<sup>1</sup>, Morozov I.V.<sup>2</sup>, Morozov A.A.<sup>1</sup>, Pimenov N.V.<sup>3</sup>, Zemskaya T.I.<sup>1</sup> BIOLOGICAL COMMUNITIES OF THE WATER COLUMN AT THE DISCHARGE AREA OF THE MUD VOLCANO “BOLSHOY” (SOUTH BAIKAL)** *<sup>1</sup>Limnological Institute SB RAS, Irkutsk, Russia; <sup>2</sup>Genomics Core Facility, SB RAS, Novosibirsk, Russia; <sup>3</sup>Winogradsky Institute of Microbiology RAS, Moscow, Russia*



- 17:30 – 17:50 **Mikhailov I.S., Zakharova Y.R., Volokitina N.A., Likhoshway Y.V.**  
**TAXONOMIC COMPOSITION OF BACTERIA IN CULTURES OF DIATOMS ISOLATED FROM LAKE BAIKAL** *Limnological Institute SB RAS, Irkutsk, Russia*
- 17:50 – 18:10 **Berdasova A.S.<sup>1</sup>, Buzoleva L.S.<sup>1,2</sup>, Bogatyrenko E.A.<sup>1,2</sup>** **RESEARCH FORMATION OF BIOFILM LISTERIA MONOCYTOGENES AND ASSOCIATED SAPROTROPHIC BACTERIA ISOLATED FROM FOOD ITEMS**  
<sup>1</sup>*Far Eastern Federal University, Vladivostok, Russia*  
<sup>2</sup>*Research institute of epidemiology and microbiology n.a. G.P. Somov, Vladivostok, Russia*
- 18:10 – 18:30 **Kim A.V.<sup>1</sup>, Dolmatova E.S.<sup>1</sup>, Eskova A.I.<sup>1</sup>, Buzoleva L.S.<sup>1,2</sup>, Golozubova Y.S.<sup>1</sup>**  
**MICROBIAL METHODS FOR ESTIMATION THE ECOLOGICAL CONDITIONS OF WATER**  
<sup>1</sup>*Far Eastern Federal University, Vladivostok, Russia*  
<sup>2</sup>*Institute of Epidemiology and Microbiology n. G.P. Somov, Vladivostok, Russia*
- 19:00 – 20:00 Dinner
- 20:00 – 21:30 **Documentary film “Thin Ice”** by David Sington and Simon Lamb (New Zealand, Great Britain, 2013). Guests of the Conference – conveners of the Baikal International Festival of Documentary, Popular Science and Educational Films “Man and Nature” (conference-hall, Limnological Institute).

**September 9, Wednesday 6<sup>th</sup> International Vereshchagin Baikal Conference, Sessions**  
(Molchanov-Sibirsky Irkutsk Regional Multipurpose Scientific Library):

Time	Room 706, 7 <sup>th</sup> floor	Room 723, 7 <sup>th</sup> floor	Room 703, 7 <sup>th</sup> floor
	<b>Session 1.</b> Biodiversity and problems of speciation in ancient closed ecosystems: molecular and classical approaches and models. Chair: Dr. Larisa Prozorova	<b>Session 5.</b> Cycle of organic matter and nutrients and <b>Session 7.</b> Transport of substances and energy at the interface Chair: Dr. Valentina Domysheva	<b>Session 6.</b> Hydrophysics and hydrochemistry of deep-water bodies Chair: Dr. Nikolay Granin
14.30-14.45	Rusinek O.T., Mokryi I.V., Kazazaev A.V. METHODS TO EVALUATE THE NATURAL MORTALITY RATE OF SMALL-SIZED HYDROBIONTS (EXEMPLIFIED BY THE SELENGA OMUL MORPHOLOGICAL GROUP) (Baikal Museum of the Irkutsk Science Center SB RAS, Listvyanka 2Energy System Institute, SB RAS, Irkutsk)	Moiseenko O.G., Orekhova N.A. Medvedev E.V. THE MECHANISM OF LONG-TERM EVOLUTION OF THE CARBON CYCLE OF THE SEVASTOPOL BAY ECOSYSTEM (Marine Hydrophysical Institute, Sevastopol, Russia)	Naumenko M.A. BATHYMETRIC MODELS OF LAKES: NECESSITY, READINESS AND APPLICATIONS (Institute of Limnology RAS, St. Petersburg, Russia)
14.45-15.00	Bolobanshikova G.N., Rogozin D.Yu., Firsova A.D., Rodionova E.V., Degermendzhy N.N., Shabanov A.V. ANALYSIS OF DIATOM ALGAE FROM THE WATER COLUMN AND BOTTOM SEDIMENTS OF SHIRA LAKE (KHAKASSIA, RUSSIA) (Institute of Biophysics Siberian branch of RAS, Krasnoyarsk, Russia; Siberian Federal University, Krasnoyarsk, Russia; Limnological Institute, SB RAS, Irkutsk; Krasnoyarsk state medical University by V.F. Voyno-Yasenetsky, Krasnoyarsk; L.V. Kirensky Institute of physics SB RAS, Krasnoyarsk, Russia)	Oleinikova O.V., Bychkov A.Yu., Pokrovskiy O.S., Shirokova L.S., Drozdova O.Yu., Lapitskiy S.A. CONVERSION OF DISSOLVED ORGANIC MATTER AND BEHAVIOR OF MICROELEMENTS IN STREAMFLOW OF BOREAL CLIMATIC ZONE (NORTH KARELIA) (Lomonosov Moscow State University, Moscow, Russian Federation 2Géosciences Environnement Toulouse (GET), Observatoire Midi-Pyrénées, Toulouse, France)	Tsydenov B.O., Starchenko A.V. A MATHEMATICAL MODL FOR INVESTIGATION OF THE RIVERINE THERMAL BARIN A DEEP WATER BODY (IN THE CASE OF LAKE BAIKAL) (National Research Tomsk State University, Tomsk, Russia)
15.00-15.15	Zaidikov I.Yu., Sukhanova L.V., Naumova E.Yu. THE POPULATION STRUCTURE OF THE TWO SPECIES OF EPISCHURA GENUS (COPEPODA, CALANOIDA) (Limnological Institute SB RAS, Irkutsk, Russia)	Yermolaeva N.I., Zarubina E.Yu., Strakhovenko V.D., Romanov R.E. HYDROBIONT'S CONTRIBUTION IN A STREAM OF ORGANIC MATTER IN LIMNOLOGICAL SYSTEMS IN THE SOUTH OF WESTERN SIBERIA (Institute for Water and Environmental Problems SSB RAS, Novosibirsk; Institute of Geology and Mineralogy SB RAS, Novosibirsk; Central Siberian Botanical Garden SB RAS, Novosibirsk, Russia)	Ivanova I.N., Samolyubov B.I. COASTAL UPWELLING AND LARGE-SCALE INTERNAL WAVES IN LAKE LADOGA (Faculty of physics, Department of Physics of sea and land waters, Moscow, Russia)

15.15-15.30	Sapozhnikova Yu.P., Belous A.A., Klimenkov I.V., Sukhanova L.V., Glyzina O.Yu. MORPHO-FUNCTIONAL CHARACTERISTICS OF PERIPHERAL SECTION OF AUDITORY SYSTEM IN BAIKAL FISH IN THE CONTEXT OF THEIR SPECIFIC LIFE ACTIVITIES (Limnological Institute SB RAS, Irkutsk, Russia)	Ovdina E.A., Strakhovenko V.D. ROLE OF ORGANIC SUBSTANCE IN FORMATION OF AUTIGENNY MINERALS IN LAKE SYSTEMS OF TAZHERANSKY GROUP (V.S. Sobolev Institute of Geology and Mineralogy SB RAS, Novosibirsk, Russia)	Blokhina N.S. THE INFLUENCE OF WIND AND DEPTH OF THE RESERVOIR ON THE FORMATION OF THE CURRENTS AND SPRING THERMAL BAR IN A RESERVOIR, PARTIALLY COVERED WITH ICE (Moscow State University, Faculty of Physics)
15.30-15.45	Kovalenkova M.V., Sitnikova T.Y., Sherbakov D.Y. PHYLOGENETIC POSITION OF A NEW SPECIES OF PROSOBRANCHIAN MOLLUSKS BAICALIIDAE (LITTORINIMORPHA, RISSOOIDEA) (Limnological Institute SB RAS, Irkutsk, Russia; Irkutsk National Research Technical University, Irkutsk, Russia; Irkutsk State University, Irkutsk, Russia)	Shirokova L.S., Ershova A.A., Pokrovsky O.S., Chupakov A.V. BIODEGRADATION OF DISSOLVED ORGANIC MATTER AND RELATED TRACE ELEMENT IN THE MOUTH ZONE OF THE SEVERNAYA DVINA RIVER: EXPERIMENTAL MODELING (Institute of Environmental Problems of the North UB RAS, Arkhangelsk, Russia; Georesources and Environnement Toulouse GET UMR CNRS, Université Paul Sabatier, Toulouse, France)	Kozlov V.V., Aslamov I.A., Granin N.G. ASSESSMENT OF HETEROGENEITY OF VERTICAL DISTRIBUTION OF EFFECTIVE THERMAL CONDUCTIVITY AND HEAT FLOWS IN THE ICE-WATER SYSTEM (Limnological Institute SB RAS, Irkutsk, Russia)
15.45-16.00	Yakhnenko V.M., Klimenkov I.V., Sudakov N.P., Belyshenko A.Yu., Sukhanova L.V., Glyzina O.Yu., Sapozhnikova Yu.P. PECULIARITIES IN THE STRUCTURE OF BLOOD CELLS OF CULTURED FISHES FROM LAKE BAIKAL UNDER PHENOL EFFECT (Limnological Institute RAS SB, Irkutsk, Russia)	Chupakov A.V., Shirokova L.S., Pokrovsky O.S. DISSOLVED ORGANIC CARBON IN CONTRASTING STRATIFIED LAKES OF NORTHERN TAIGA (ARKHANGELSK REGION) (Institute of Ecological Problems of the North, UB RAS, Arkhangelsk, Russia; Université de Toulouse, Observatoire Midi-Pyrénées, Toulouse, France)	Vologina E.G., Sturm M., Vorobyova S.S., Ivanov V.G., Blinov V.V., Granin N.G. EVIDENCE OF ICE RAFTING IN SOUTHERN BAIKAL (Institute of Earth's Crust SB RAS, Irkutsk, Russia)

**16.00-16.30 Coffee break (in the Library lobby, 7<sup>th</sup> floor)**

Time	Room 706, 7 <sup>th</sup> floor	Room 703, 7 <sup>th</sup> floor
	<b>Session 5.</b> Cycle of organic matter and nutrients <b>And Session 7.</b> Transport of substances and energy at the interface Chair: Prof. Tamara Khodzher	<b>Session 6.</b> Hydrophysics and hydrochemistry of deep-water bodies Chair: Dr. Nikolay Granin
16.30-16.45	Dolzhenko S.V. EXCHANGE OF NUTRIENTS IN THE WATER-BOTTOM SEDIMENT SYSTEM AT ABNORMAL OXYGEN REGIME IN THE AZOV SEA (AzNIIRH, Rostov-on-Don, Russia)	Aslamov I.A., Kucher K.M., Makarov M.M. STUDIES OF HEAT FLOW AT THE WATER-ICE INTERFACE USING THE DEVELOPED OFF-LINE ICE DEVICE (Limnological Institute SB RAS, Irkutsk, Russia)

16.45-17.00	Golobokova L.P., Polkin V.V., Onishchuk N.A., Khuriganova O.I. DRY ATMOSPHERIC DEPOSITION IN THE TRANSITION ZONE "CONTINENT-OCEAN" IN EAST ANTARCTIC (Limnological Institute SB RAS, Irkutsk, Russia 2V.E. Zuev Institute of Atmospheric Optics SB RAS, Tomsk, Russia)	Troitskaya Ye.S., Shimaraev M.N. VERTICAL MOVEMENT OF WATER MASSES IN SLOPE AREAS OF SOUTHERN BAIKAL (Limnological Institute SB RAS, Irkutsk, Russia)
17.00-17.15	Inomata Y., Yamashita N., Saito T., Ohizumi T., Sase H., Takahashi K., Kaneyasu Y., Funaki D., Iwasaki A., Nakagomi K., Shiroma T., Yamaguchi T. ESTIMATE OF ANTHROPOGENIC SULFUR DEPOSITION IN JAPAN BY USING SULFUR ISOTOPIC RATIO (Asia Center for Air Pollution Research, Niigata Prefectural Institute of Public Health and Environmental Sciences, Japan Environmental Sanitation Center, Kanagawa, National Institute of Advanced Industrial Science and Technology, Ibaraki, Shimane Prefectural Institute of Public Health and Environmental Sciences, Shimane, Prefectural Institute of Health and Environment, Okinawa, Nagano Environmental Conservation Research Institute, Environmental and Geological Research Department, Institute of Environmental Sciences, Hokkaido Research Organization, Hokkaido, Japan)	
17.15-17.30	Khuriganova O.I., Obolkin V.A., Potemkin V.L., Golobokova L.P., Khodzher T.V. SPATIAL AND TIME VARIABILITY OF OZONE IN ATMOSPHERE RECORDED AT MONITORING STATIONS IN THE BAIKAL REGION (Limnological Institute SB RAS, Irkutsk, Russia)	
17.30-17.45	Zayakhanov A.S., Zhamsueva G.S., Tsydypov V.V., Balzhanov T.S. DIURNAL DYNAMIC OF SURFACE OZONE AND SMALL GASEOUS IMPURITIES NEAR THE COASTAL ZONE OF LAKE BAIKAL Institute of Physical Materials of Science SB RAS, Ulan-Ude, Russia	

**September 9, Wednesday 4<sup>th</sup> Baikal Symposium on Microbiology (BSM-2015)** "Microorganisms and Viruses in Aquatic Ecosystems" and **Session 3.** Microorganisms: distribution and symbiotic relationships in aquatic ecosystems (conference-hall, Limnological Institute):

**Session 3.** Autochthonous and allochthonous viruses in aquatic ecosystems

**Session 4.** Microbiological and virological monitoring of water bodies

Chairs: Prof. Valentin Drucker, Prof. Lyubov Kondrateva

Secretariat: Yulia Shtykova, Elena Sukhanova

- 14:30 – 14:50 **Drucker V.V., Dutova N.V. VIRIONEUSTON, VIRIOPLANKTON, AND VIRIOBENTHOS: MICROBIAL LOOP COMPONENTS OF LAKE BAIKAL ECOSYSTEM** *Limnological Institute of SB RAS, Irkutsk, Russia*
- 14:50 – 15:10 **Sokolova O.<sup>1</sup>, Shaburova O.<sup>2</sup> KRYO-ELECTRON MICROSCOPY OF GIANT *P. aeruginosa* BACTERIOPHAGES: PHIKZ, EL, LIN68B** <sup>1</sup>*Moscow State M.V. Lomonosov University, Moscow, Russia;* <sup>2</sup>*I.I.Mechnikov Institute of Vaccine and Sera, Moscow, Russia*
- 15:10 – 15:30 **Butina T.V., Potapov S.A., Bukin Y.S., Belykh O.I., Kabilov M.R., Tupikin A.E., Belikov S.I. GENETIC DIVERSITY OF VIRUSES IN LAKE BAIKAL** <sup>1</sup>*Limnological Institute SB RAS, Irkutsk, Russia;* <sup>2</sup>*Genomics Core Facility, Institute of Chemical Biology and Fundamental Medicine SB RAS, Novosibirsk, Russia*
- 15:30 – 15:50 **Kondrateva L.M. CRYOMICROBIOCENOSIS IN THE ICE OF THE AMUR RIVER** *Institute of Water and Ecology Problems, FEB RAS, Khabarovsk, Russia*
- 15:50 – 16:10 **Buzoleva L.S.<sup>1,2</sup>, Bogatyrenko E.A.<sup>1</sup>, Kim A.V.<sup>1</sup>, Golozubova Yu.S.<sup>1</sup>, Eskova A.I.<sup>1</sup>, Dolmatova E.S.<sup>1</sup> THE CHARACTERISTIC OF TAXONOMICAL STRUCTURE AND HYDROLYTIC PROPERTIES OF MARINE BACTERIA FROM WATER AREAS WITH DIFFERENT ANTHROPOGENIC PRESSURE** <sup>1</sup>*Far Eastern Federal University, Vladivostok, Russia;* <sup>2</sup>*G.P. Somov Research Institute of Epidemiology and Microbiology, Vladivostok, Russia*
- 16:10 – 16:30 **Popelnitskaya I.M., Muchkina E.Ya., Popelnitsky V.A. ESTIMATION OF THE SPATIAL DISTRIBUTION OF BACTERIOPLANKTON TAKING INTO ACCOUNT PERIODS OF ECOSYSTEM FUNCTIONING KRASNOYARSK RESERVOIR ON THE RESULTS OF LONG-TERM OBSERVATIONS** *Siberian federal university, Krasnoyarsk, Russia*
- 16:30 – 16:50 **Coffee break** (in the lobby of the conference-hall, Limnological Institute)
- 16:50 – 17:10 **Litvinenko Z.N. INFLUENCE OF ORGANIC MATTER ON BIOFILM FORMATION IN GROUNDWATER** *Institute of water and ecological problems FEB RAS, Khabarovsk, Russia*
- 17:10 – 17:30 **Stukova O.Yu. THE NUMBER AND ACTIVITY OF BACTERIAL RIVER AMUR IN THE PERIOD OF HIGH WATER LEVEL IN 2013 YEAR** *Institute of Water and Ecological Problems FEB RAS, Khabarovsk, Russia*
- 17:30 – 17:50 **Chernitsina S.M., Hal'zov I.A., Khanaeva T.A., Klimenkov I.V., Zemskaya T.I. INVESTIGATION OF THE MICROBIAL COMMUNITY ASSOCIATED WITH THE COLOURLESS SULFUR BACTERIA THIOPILOCA FROM LAKE BAIKAL** *Limnological Institute SB RAS, Irkutsk, Russia*
- 17:50 – 18:10 **Lomakina A.V., Mamaeva E.V., Pogodaeva T.V., Zemskaya T.I. DIVERSITY REPRESENTATIVES OF THE PHYLUM *PLANCTOMYCETES* IN DEEP SEDIMENTS OF SITES OF GAS AND OIL CONTAINING MINERALIZED FLUIDS IN LAKE BAIKAL** *Limnological Institute SB RAS, Irkutsk, Russia*

- 18:10 – 18:30 **Mamaeva E.,<sup>1</sup>Gubarev P.,<sup>2</sup>Suslova M.,<sup>1</sup>Gorshkov A.,<sup>1</sup>Zemskaya T.<sup>1</sup> STUDY IN MODEL EXPERIMENTS DEGRADATION ALKANE OIL FRACTIONS CULTURED MICROBES SEDIMENTS OF KARA SEA** <sup>1</sup>*Limnological Institute SB RAS, Irkutsk, Russia;* <sup>2</sup>*Lomonosov Moscow State University, Moscow, Russia*
- 19:00 – 20:00 Dinner
- 20:00 – 21:30 **Documentary film «Szigetköz»** by Mosonyi Szabolcs (Hungary, Slovakia, Germany, 2013). Guests of the Conference – conveners of the Baikal International Festival of Documentary, Popular Science and Educational Films “Man and Nature” (conference-hall, Limnological Institute).

**September 12, Saturday 6<sup>th</sup> International Vereshchagin Baikal Conference, Sessions**  
(Molchanov-Sibirsky Irkutsk Regional Multipurpose Scientific Library):

Time	<b>Room 706, 7<sup>th</sup> floor</b>
	<b>Session 8.</b> Paleolimnology, evolution of lacustrine ecosystem, reconstructions of environmental changes and climate of the past and <b>Session 9.</b> Large-scale changes in freshwater ecosystems under the effect of natural and anthropogenic factors Chair: Prof. Andrew Fedotov
14.30-14.45	Rogozin D.Y., Kalugin I.A., Dar'in A.V., Tarnovsky M.O. CHANGES OF CIRCULATION REGIME IN SALINE LAKE SHIRA (Khakasia, Siberia) in last Holocene: reconstruction from bottom sediments and mathematical modeling (Institute of Biophysics SB RAS, Krasnoyarsk; Sobolev's Institute of Geology and Mineralogy SB RAS, Novosibirsk; Siberian Federal University, Krasnoyarsk, Russia)
14.45-15.00	Osipov E.Yu. NEW PALEONTOLOGICAL EVIDENCES OF LOW LEVEL OF LAKE BAIKAL IN THE LATE PLEISTOCENE (Limnological Institute SB RAS, Irkutsk, Russia)
15.00-15.15	Grigoriev V.A., Maksimov F.E., Nikitin M.Yu., Kuznetsov V.Yu., Levchenko S.B.I., Petrov A.Yu., Tabuns E.V.I., Kuksa K.A. GEOCHRONOLOGY OF THE PUDOST' PALEOLAKE WATER REGIME (THE IZHORA PLATEAU, LENINGRAD PROVINCE) ON THE BASE OF RADIOISOTOPE STUDY OF IZHORA CARBONATE FORMATIONS (St. Petersburg State University, Saint-Petersburg, Russia 2A.I. Herzen Russian State Pedagogical University, Saint-Petersburg, Russia)
15.15-15.30	Fedorov Yu.A. CHEMICAL AND ISOTOPIC EVOLUTION OF LAKE BAIKAL WATERS AFFECTED BY NATURAL AND ANTHROPOGENIC FACTORS AND PROCESSES (Institute of Geoscience, Southern Federal University, Rostov-on-Don, Russia)
15.30-15.45	Bessudova A.Yu., Sorokovikova L.M., Firsova A.D., Tomberg I.V. WATER QUALITY IN THE LOWER PART OF THE YENISEY RIVER (Limnological Institute of RAS SB, Irkutsk, Russia)
15.45-16.00	Shirokova L.S., Vorobieva T.Ya., Zabelina S.A., Klimov S.I., Moreva O.Yu., Pokrovsky O.S., Chupakov A.V., Makhnovich N.M., Gogolitsyn V.A., Sobko E.I., Shorina N.V. LAKE ECOSYSTEM EVOLUTION UNDER THE INFLUENCE OF NATURAL AND ANTHROPOGENIC FACTORS: RESULTS OF MULTIDISCIPLINARY LONG-TERM STUDIES (Institute of Environmental Problems of the North UrB RAS, Arkhangelsk, Russia; Georesources and Environnement Toulouse, Université Paul Sabatier, Toulouse, France; The North-Western Branch of the P.P. Shirshov Institute of Oceanology RAS; Lomonosov Northern (Arctic) Federal University, Arkhangelsk, Russia)
16.00-16.15	Bazhenova O.P. CHANGE IN PHYTOPLANKTON OF LAKE LENEVO (OMSK REGION) UNDER RECREATION EFFECT (Stolypin Omsk State Agricultural University Omsk, Russia)

**16.15-16.45 Coffee break (in the Library lobby, 7<sup>th</sup> floor)**

**September 9 and 12, Wednesday, Saturday**

**Poster session**

**6<sup>th</sup> International Vereshchagin Baikal Conference**

(Molchanov-Sibirsky Irkutsk Multipurpose Scientific Library, in the Library lobby, 7<sup>th</sup> floor)

<b>Blokhina N.S. THE INFLUENCE OF TEMPERATURE AND RELATIVE HUMIDITY OF THE AIR ON THE DEVELOPMENT OF A SPRING THERMAL BAR AND ENERGY EXCHANGE BETWEEN A RESERVOIR AND ATMOSPHERE AT NIGHT</b> <i>Moscow State University, Faculty of Physics, Moscow, Russia</i>
<b>Bedoshvili Ye.D., Haritonenko K.V. COLCHICINE INFLUENCE ON THE VALVE MORPHOGENESIS OF AULACOSEIRA ISLANDICA (O. MÜLLER) SIMONSEN</b> <i>Limnological Institute SB RAS, Irkutsk, Russia</i>
<b>Bondarenko N.A., Obolkina L.A. SPECIFIC CHARACTERISTICS OF CURRENT STRUCTURE OF MICROPLANKTON IN LAKE BAIKAL</b> <i>Limnological Institute SB RAS, Irkutsk, Russia</i>
<b>Karetnikov S.G., Naumenko M.A., Guzivaty V.V., Shimaraev M.N., Kuraev A.V. CONSISTENCY IN INTERANNUAL VARIABILITY OF ICE REGIME BETWEEN LAKES BAIKAL AND LADOGA</b> <i>Institute of Limnology RAS, Saint-Petersburg, Russia</i>
<b>Onishchuk N.A., Tomberg I.V., Zhuchenko N.A., Sezko N.P., Bashenkhaeva N.V., Nosova V. SEASONAL VARIABILITY OF NUTRIENT CONCENTRATION IN THE ANGARA RIVER OUTLET</b> <i>Limnological Institute SB RAS, Irkutsk, Russia</i>
<b>Pogodaeva T.V., Zemskaya T.I. MICROELEMENTAL COMPOSITION OF DEEP-WATER FLUIDS IN THE AREA OF OIL AND GAS DISCHARGE IN LAKE BAIKAL</b> <i>Limnological Institute SB RAS, Irkutsk, Russia</i>
<b>Sakirko M.V., Domysheva V.M., Emelyanova E.S. DYNAMICS OF CONCENTRATIONS OF TOTAL AND MINERAL PHOSPHORUS IN THE PELAGIC AREA OF LAKE BAIKAL</b> <i>Limnological Institute SB RAS, Irkutsk, Russia</i>
<b>Shishlyannikova T.A., Fedorova G.a., Kuzmin A.V., Lipko I.A., Parfenova V.V. ISOLATION AND STUDY OF ANTIMICROBIAL COMPOUNDS PRODUCED BY BAIKAL BACTERIA</b> <i>Limnological Institute SB RAS, Irkutsk, Russia</i>
<b>Titova L.A., Rodionova Ye.V., Usol'tseva M.V. BENTHIC DIATOM ALGAE IN PLIOCENE DEPOSITS OF TUNKA DEPRESSION</b> <i>Limnological Institute SB RAS, Irkutsk, Russia</i>
<b>Usoltseva M.V., Titova L.A., Popovskaya G.I. LONG-TERM DYNAMICS OF DOMINANT SPECIES IN SPRING DIATOM PLANKTON FROM THE PELAGIC AREA OF LAKE BAIKAL</b> <i>Limnological Institute SB RAS, Irkutsk, Russia</i>
<b>Volokitina N.A., Mikhailov I.S., Zakharova Yu.P. CULTIVATION OF DIATOMS FROM LAKE BAIKAL</b> <i>Limnological Institute SB RAS, Irkutsk, Russia</i>
<b>Stonik I.V., Aizdaicher N.A., Issaeva M.P. MORPHOLOGICAL AND MOLECULAR CHARACTERIZATION OF THE DIATOMS BELONGING TO THE GENUS PSEUDO-NITZSCHIA H. PERAGALLO FROM THE NORTHWESTERN SEA OF JAPAN</b> <i>A.V. Zhirmunsky Institute of Marine Biology FEB RAS, Vladivostok, Russia</i> <i>G.B. Elyakov Pacific Institute of Bioorganic Chemistry FEB RAS, Vladivostok, Russia</i>
<b>Stolnikova N.V., Kamakin A.M., Zaytsev V.F. INFLUENCE OF A CTENOPHORA ON A BIODIVERSITY OF THE CASPIAN SEA</b> <i>Astrakhan State Technical University, Astrakhan, Russia</i>
<b>Stepanova O.G., Trunova V.A., Zvereva V.V., Melgunov M.S., Fedotov A.P. RECONSTRUCTION OF GLACIER FLUCTUATION IN THE EAST SAYAN, BAIKALSKIY AND KODAR RIDGES (EAST SIBERIA, RUSSIA) DURING THE LAST 210 YEARS BASED ON HIGH-RESOLUTION GEOCHEMICAL PROXIES FROM PROGLACIAL LAKE BOTTOM SEDIMENTS</b> <i>Limnological Institute SB RAS, Irkutsk, Russia</i> <i>Nikolaev Institute of Inorganic Chemistry SB RAS, Novosibirsk, Russia</i> <i>Institute of Geology and Mineralogy SB RAS, Novosibirsk, Russia</i>
<b>Shorina N.V., Chupakov A.V., Vorobyova T.Ya., Kosheleva A.E. DISTRIBUTION OF FORMS OF IRON IN SMALL LAKES NORTHWEST RUSSIA (ARKHANGELSK REGION)</b> <i>Institute of Environmental Problems of the North UrB RAS Arkhangelsk, Russia</i> <i>Severnny (Arctic) Federal University, Arkhangelsk, Russia</i>



<p><b>Samolyubov B.I. INTRUZIVE CURRENTS AND TRANSPORT OF IMPURITIES IN LAKES</b>  <i>Moscow State University, Faculty of physics, Department of Physics of sea and land waters, Moscow, Russia</i></p>
<p><b>Itskovich V.B., Shigarova A.M., Glyzina O.Y., Kaluzhnaya O.V., Borovskii G.B. HEAT SHOCK PROTEIN (HSP70) EXPRESSION IN BAIKAL ENDEMIC SPONGE LUBOMIRSKIA BAICALENSIS EXPOSED TO ELEVATED TEMPERATURES</b>  <i>Limnological Institute SB RAS, Irkutsk, Russia.</i>  <i>Siberian Institute of Plant Physiology and Biochemistry SB RAS, Irkutsk, Russia</i></p>
<p><b>Itskovich V.B. INTRASPECIFIC AND INTERSPECIFIC SEQUENCE VARIABILITY IN ITS rDNA REGION OF FRESHWATER SPONGES OF LAKE BAIKAL</b>  <i>Limnological Institute SB RAS, Irkutsk, Russia</i></p>
<p><b>Domysheva V.M., Sakirko M.V., Usoltseva M.V., Panchenko M.V., Pestunov D.A. DYNAMICS OF NUTRIENTS IN THE LITTORAL AREA OF SOUTHERN BAIKAL IN 2014</b>  <i>Limnological Institute SB RAS, Irkutsk, Russia</i>  <i>V.E. Zuev's Institute of Atmospheric Optics SB RAS, Tomsk, Russia</i></p>
<p><b>Dagurova O.P., Zaitseva S.V., Garankina V.P., Belkova N.L., Dambaev V.B., Namsaraev B.B. BACTERIOPLANKTON OF THE EASTERN COASTAL ZONE OF LAKE BAIKAL</b>  <i>Institute of General and Experimental Biology of SB RAS, Ulan-Ude, Russia</i>  <i>Limnological Institute SB RAS, Irkutsk, Russia</i></p>
<p><b>Axenov-Gribanov D., Rebets Y., Tokovenko B., Voytsekhovskaya I., Protasov E., Timofeyev M., Luzhetskyy A. ACTINOBACTERIA ISOLATED FROM DOMINANT BAIKAL MACROINVERTEBRATES AS A SOURCE OF NOVEL BIOLOGICALLY ACTIVE COMPOUNDS</b>  <i>Institute of Biology at Irkutsk State University, Irkutsk, Russia</i>  <i>Helmholtz Institute for Pharmaceutical Research Saarland, Saarbrücken, Germany</i></p>
<p><b>Kaluzhnaya O.V. COMPOSITION AND DIVERSITY OF BAIKALIAN SPONGE MICROBIAL COMMUNITIES</b>  <i>Limnological Institute SB RAS, Irkutsk, Russia</i></p>
<p><b>Kasashima R., Minami H., Hachikubo A., Yamashita S., Sakagami H., Oshikiri N., Sasaki K., Takahashi N., Shoji H., Khlystov O., Pogodaeva T., Khabuev A., Belousov O., Naudts L., De Batist M. &amp; Grachev M. SUBSURFACE SEDIMENT PORE WATERS CONTAINING HIGH CONCENTRATION OF IONS AT THE KUKUY CANYON IN LAKE BAIKAL</b>  <i>Kitami Institute of Technology, 165 Koen-cho, Kitami, 090-8507, Japan</i>  <i>Limnological Institute SB RAS, Irkutsk, Russia</i>  <i>Operational Directorate Natural Environment, Royal Belgian Institute of Natural Sciences, Ostend, Belgium</i>  <i>Renard Centre of Marine Geology, Ghent University, Gent, Belgium</i></p>
<p><b>Kamaltynov R.M. EVOLUTION OF BAIKAL AMPHIPODS AFFECTED BY CLIMATE OSCILLATIONS AND DEVELOPMENT OF THE BAIKAL RIFT</b>  <i>Limnological Institute SB RAS, Irkutsk, Russia</i></p>
<p><b>Krylov A.A., Khlystov O.M., Sakagami H., Hachikubo A., Minami H., Zemskaya T.I., Pogodaeva T.V., Logvina E.A., Semenov P.B., Kalmychkov G.V. AUTHIGENIC CARBONATES IN THE GAS-HYDRATES STRUCTURES OF THE LAKE BAIKAL: DISTRIBUTION AND MECHANISMS OF CRYSTALLIZATION</b>  <i>St. Petersburg State University, Institute for Earth Science, St. Petersburg, Russia</i>  <i>I.S. Gramberg VNIIOkeangeologia, St. Petersburg, Russia</i>  <i>Limnological Institute SB RAS, Irkutsk, Russia</i>  <i>Kitami Institute of Technology, Japan</i>  <i>A.P. Vinogradov Institute of Geochemistry SB RAS, Irkutsk, Russia</i></p>
<p><b>Naumova T.V., Gagarin V.G. THE NEMATODE FAUNA (NEMATODA) FROM THE INTERSTITIAL OF THE SPLASH ZONE OF LAKE BAIKAL – BASIC FEATURES AND FORMATION</b>  <i>Limnological Institute SB RAS, Irkutsk, Russia</i>  <i>Institute of Inland Water Biology RAS, Borok, Russia</i></p>
<p><b>Mamontov A.M., Yakhnenko V.M. SOME MORPHOLOGICAL AND GENETIC-BIOCHEMICAL PECULIARITIES OF WHITEFISHES FROM LAKE BAIKAL AND THE AMUR RIVER</b>  <i>Limnological Institute SB RAS, Irkutsk, Russia</i></p>
<p><b>Molozhnikova Ye.V., Netsvetaeva O.G., Golobokova L.P., Obolkin V.A., Khodzher T.V. ASSESSMENT OF TRANSPORT OF ANTHROPOGENIC IMPURITIES FROM ATMOSPHERE ONTO THE WATER AREA OF SOUTHERN BAIKAL</b>  <i>Limnological Institute SB RAS, Irkutsk, Russia</i></p>

<p><b>Naumova T.V., Gagarin V.G. PROSPECTS FOR RESEARCH OF FREE-LIVING NEMATODE (NEMATODA) IN LAKE BAIKAL</b></p> <p><i>Limnological Institute SB RAS, Irkutsk, Russia</i>  <i>Institute of Inland Water Biology RAS, Borok, Russia</i></p>
<p><b>Anisimova A.A., Savelyeva L.A., Fedorov G.B. PALYNOLOGICAL CHARACTERISTICS OF LATE-GLACIAL AND HOLOCENE SEDIMENTS IN LAKE ZVAN (VALDAI HILLS)</b></p> <p><i>Moscow State University, Moscow, Russia</i></p>
<p><b>Kuimova L.N., Yakimova N.I., Sherstyankin P.P. TRANDS IN CLIMATE CHANGES OF TEMPERATURE AND ICE REGIME OF LAKE BAIKAL AND ARCTIC ACCORDING TO OBSERVATION DATA</b></p> <p><i>Limnological Institute SB RAS, Irkutsk, Russia</i>  <i>Irkutsk Hydrometeorological Survey, Irkutsk, Russia</i></p>
<p><b>Oshikiri N., Minami H., Hachikubo A., Yamashita S., Sakagami H., Kasashima R., Kikuchi H., Takano S., Takahashi N., Shoji H., Jin Y.K., Baranov B., Obzhairov A. GEOCHEMISTRY OF PORE WATERS FROM GAS HYDRATE-BEARING CORES RETRIEVED OFF SOUTHWEST SAKHALIN ISLAND, RUSSIA</b></p> <p><i>Kitami Institute of Technology, Kitami, Japan; Korea Polar Research Institute, Incheon, Korea; P.P. Shirshov Institute of Oceanology, Russian Academy of Sciences, Moscow, Russia; V.I. Il'ichev Pacific Oceanological Institute, Far Eastern Branch, Russian Academy of Sciences, Vladivostok, Russia</i></p>
<p><b>Oota Y., Hachikubo A., Takeya S. SECONDARY FORMATION OF STRUCTURE II GAS HYDRATE DURING DISSOCIATION OF STRUCTURE I MIXED-GAS HYDRATE COMPOSED OF METHANE AND ETHANE</b></p> <p><i>Kitami Institute of Technology, Kitami, Japan</i>  <i>National Institute of Advanced Industrial Science and Technology (AIST), Central, Tsukuba, Japan</i></p>
<p><b>Oota Y., Hachikubo A., Takeya S. MICRO-PORE EFFECT ON DISSOCIATION PROCESS OF METHANE HYDRATE AND ISOTOPIC FRACTIONATION OF GUEST MOLECULES</b></p> <p><i>Kitami Institute of Technology, Kitami, Japan</i>  <i>National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, Japan</i></p>
<p><b>Hachikubo A., Oota Y., Shimizu Y., Takeya S., Sakagami H., Minami H., Yamashita S., Takahashi N., Shoji H., Khlystov O., De Batist M. EFFECT OF WATER DEPTH ON HYDRATION NUMBER OF METHANE HYDRATE</b></p> <p><i>Kitami Institute of Technology, Kitami, Japan</i>  <i>National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba Japan</i>  <i>Limnological Institute SB RAS, Irkutsk, Russia</i>  <i>Renard Centre of Marine Geology, Ghent University, Ghent, Belgium</i></p>
<p><b>Khabuev A.V., Khlystov O.M., Belousov O.V., Chenskiy D.A., Soloviova M.A., Akhmanov G.G., Minami H., Hachikubo A., Sakagami H., Yamashita S. GEOLOGICAL AND GEOPHYSICAL CHARACTERISTICS OF SEEP "KRASNY YAR" (SOUTH LAKE BAIKAL)</b></p> <p><i>Limnological Institute SB RAS, Irkutsk, Russia</i>  <i>Irkutsk National Research Technical University, Irkutsk, Russia</i>  <i>Lomonosov Moscow State University, Moscow, Russia</i>  <i>New Energy Resources Research Center, Kitami Institute of Technology, Kitami, Japan</i></p>
<p><b>Tomberg I.V., Sorokovikova L.M., Marinaite I.I., Bashenkhaeva N.V., Sezko N.P., Zhuchenko N.A. CHEMICAL COMPOSITION AND WATER QUALITY IN THE ANGARA-KICHERA SHOAL IN WINTER</b></p> <p><i>Limnological Institute SB RAS, Irkutsk, Russia</i></p>
<p><b>Potemkin V.L., Makukhin V.L., Chipanina Ye.V., Obolkin V.A. STUDY OF THE PROCESS OF ATMOSPHERIC POLLUTANTS TRANSFER TO LAKE BAIKAL FROM REGIONAL SOURCES</b></p> <p><i>Limnological Institute SB RAS, Irkutsk, Russia</i></p>
<p><b>Potemkina T.G. EFFECT OF ENVIRONMENTAL CHANGES TO RIVER MOUTH AREAS OF LAKE BAIKAL TRIBUTARIES</b></p> <p><i>Limnological Institute SB RAS, Irkutsk, Russia</i></p>
<p><b>Potemkina T.G. CHANGES IN WATER DRAINAGE AND ALLUVIA OF LAKE BAIKAL TRIBUTARIES: NATURAL AND ANTHROPOGENIC CAUSES</b></p> <p><i>Limnological Institute SB RAS, Irkutsk, Russia</i></p>
<p><b>Samolyubov B.I., Ivanova I.N. DISTRIBUTION OF CLOROPHILL-A IN LAKE SYSTEM OF STRATIFIED CURRENTS</b></p> <p><i>Lomonosov Moscow State University, Department of physics, Department of Physics of sea and land waters, Moscow, Russia</i></p>

<p><b>Netsvetaeva O.G., Obolkin V.A., Sezko N.P., Nosova V.V., Khodzher T.V. RESULTS OF LONG-TERM MONITORING OF WET DEPOSITION WITHIN EANET PROGRAM AT THE RURAL STATION LISTVYANKA</b></p> <p><i>Limnological Institute SB RAS, Irkutsk, Russia</i></p>
<p><b>Sherstyankin P.P., Shimaraev M.N., Potemkin V.L., Kuimova L.N., Blinov V.V., Ivanov V.G. ON TEMPERATURE OF MAXIMAL DENSITY ON LAKE BAIKAL</b></p> <p><i>Limnological Institute RAS SB, Irkutsk, Russia</i></p>
<p><b>Sherstyankin P.P.1, Kokhanenko G.P.2, Ivanov V.G.1, Troitskaya Ye.S.1 ON HYDROPHYSICAL POLYGON UNDER THE ICE OF SOUTH BAIKAL NEAR IVANOVSKY CAPE</b></p> <p><i>Limnological Institute SB RAS, Irkutsk, Russia; Institute of Atmosphere Optics SB RAS, Tomsk, Russia</i></p>
<p><b>Sherstyankin P.P., Ivanov V.G., Kucher K.M. ABOUT TRANSPARENCY AT LONGITUDINAL AND SEVERAL LATITUDINAL SECTIONS OF LAKE BAIKAL IN 2009-2010</b></p> <p><i>Limnological Institute SB RAS, Irkutsk, Russia</i></p>
<p><b>Sherstyankin P.P., Ivanov V. G., Sinyukovich V.N., Potemkin V.L. ABOUT SPRING AND AUTUMN THERMAL BARS AT THE SELENGA SHALLOW WATER OF LAKE BAIKAL</b></p> <p><i>Limnological Institute SB RAS, Irkutsk, Russia</i></p>
<p><b>Sherstyankin P.P., Ivanov V. G., Sinyukovich V.N., Potemkin V.L. ABOUT THERMAL BAR IN BARGUZIN BAY</b></p> <p><i>Limnological Institute RAS SB, Irkutsk, Russia</i></p>
<p><b>Paradina L.F., Khakhuraev O.A., Pavlova L.A., Chuparina Ye.V., Sutorin A.N. COMPOSITION OF ASH-SLAG MATERIALS OF CPP FROM BPPP, AND PERSPECTIVES OF THEIR UTILIZATION</b></p> <p><i>Limnological Institute SB RAS, Irkutsk, Russia Institute of Geochemistry SB RAS, Irkutsk, Russia</i></p>
<p><b>Paradina L.F., Ladenkova O.A., Pavlova L.A. ACCUMULATION OF CHEMICALS BY BAIKALIAN AMPHIPODS</b></p> <p><i>Limnological Institute SB RAS, Irkutsk, Russia Institute of Geochemistry SB RAS, Irkutsk, Russia</i></p>
<p><b>Pestunov D.A., Domysheva V.M., Shamrin A.M., Ivanov V.G., Sakirko M.V., Panchenko M.V. CARBON DIOXIDE AND METHANE IN THE ATMOSPHERE AND WATER OF LAKE BAIKAL (2012-2014)</b></p> <p><i>V.E. Zuev Institute of Atmospheric Optics SB RAS, Tomsk, Russia; Limnological Institute SB RAS, Irkutsk, Russia</i></p>
<p><b>Kruglyakova R., Shevtsova N. EMISSIONS OF METHANE IN COASTAL WATERS OF THE SHELF OF THE LAPTEV SEA</b></p> <p><i>State Scientific Centre of Russian Federation. Federal State Unitary Geological Enterprise "Yuzhmorgeologiya", Rosnedra, Gelendzhik, Russia</i></p>
<p><b>Kruglyakova R., Kurilov P, Terenozhkin A. ECOLOGICAL CONDITION OF FRESH-WATER ESTUARIES OF PLAVNEVY SYSTEM OF THE DELTA OF THE KUBAN RIVER</b></p> <p><i>State Scientific Centre of Russian Federation. Federal State Unitary Geological Enterprise "Yuzhmorgeologiya", Rosnedra, Gelendzhik, Russia</i></p>
<p><b>Belyaeva E., Yershova O., Bairova T., Kaljuzhnaja O. PREVALENCE OF GENE POLYMORPHISM OF GLUTATHIONE-S-TRANSFERASES IN ETHNIC GROUPS LIVING IN THE EASTERN SIBERIA</b></p> <p><i>Scientific Centre of the Family Health and Human Reproduction Problems, Irkutsk, Russian Federation</i></p>

## September 12, Saturday

### **Session 10. Results presented by school researchers**

(Molchanov-Sibirsky Irkutsk Regional Multipurpose Scientific Library):  
(rooms 204, 703, 706, 723).

**10.00-13.00** Oral presentations of the School Session (rooms 723, 703, 706, 204, Molchanov-Sibirsky Library)

#### **Session “Ecology”**

Chairs: Dr. Tatiana Sherbakova, Dr. Tatiana Butina

<b>Time</b>	<b>Room 204, 2<sup>th</sup> floor</b>
10.00-10.15	<b>Stalmakov V.</b> Metallic corrosion (Secondary School No. 73, grade 6, Irkutsk)
10.15-10.30	<b>Ryazhkina Ju.</b> Effect of carbonated drinks on human organism (Secondary School No. 73, grade 9, Irkutsk)
10.30-10.45	<b>Kuzmina P.</b> Tardigrades are amazing animals! (Palace of Art, Secondary School No. 64, grade 7, Irkutsk)
10.45-11.00	<b>Olinovich N.</b> Effect of artificial defoliation on growth of pine needles, shoots and the number of needles on the shoot of <i>Pinus sylvestris</i> (Center of Additional Education for Children, grade 10, Irkutsk)
11.00-11.15	<b>Bovt T.M.</b> Investigation of growing possibilities of <i>Perccottus glenii</i> in artificial reservoirs (Palace of Art, Secondary School No. 75, grade 9, Irkutsk)
11.15-11.30	<b>Glyzina E.A.</b> Cultivation of oligochaete (Palace of Art, grade 7, Irkutsk)
11.30-11.45	<b>Parschikov I., Glyzina V.</b> Cultivation of daphnia (Palace of Art, grade 7, Irkutsk)
11.45-12.00	<b>Syroezhko R.</b> Cultivation of lizards and mollusks under artificial conditions (Palace of Art, grade 6, Irkutsk)
12.00-12.15	<b>Aslamov A.</b> Determination of fluorides and lead ions in potato tubers (Lyceum No. 3, grade 11, Irkutsk)
12.15-12.30	<b>Dorokhov D.</b> Methods for pathogen control (Station of Young Naturalists", grade 7, Usolye-Sibirskoye)
12.15-12.30	<b>Naidyonova A.</b> Effect of pets on human life (Lyceum No. 3, grade 7, Irkutsk)

#### **Session “Studies of Lake Baikal”**

Chairs: Dr. Nina Kulakova, Olga Medvezhonkova

<b>Time</b>	<b>Room 723, 7<sup>th</sup> floor</b>
10.00-10.15	<b>Usova P.</b> Study of coastal water quality in the southwestern part of Lake Baikal (Center of Extracurricular Activities, Krasnoyarsk Region, Taseyevsky Area, Taseevo, grade 10, Krasnoyarsk)
10.15-10.30	<b>Chaikovsky S.</b> Screening of aquatic systems on the presence of invasive species <i>Perccottus glenii</i> (Palace of Art for Children and Youth, Center for Special Education, Tomsk, grade 10, Tomsk)
10.30-10.45	<b>Maksimchuk M.</b> Resistance of Baikal amphipods to water pollution (Palace of Art, Secondary School No. 38, grade 7, Irkutsk)
10.45-11.00	<b>Zabotin M.</b> Comparative characteristics of omul and ratan goby from nutritional value and conditions in vitro (Palace of Art, grade 7, Irkutsk)
11.00-11.15	<b>Ogloblin I.</b> Impact of adverse conditions on growth of <i>Lubomirskia baicalensis</i> (Palace of Art, grade 7, Irkutsk)
11.15-11.30	<b>Yanushko K.</b> Perspectives of cultivation of Baikal omul (Palace of Art, Secondary School No. 75, grade 9, Irkutsk)

11.30-11.45	<b>Medvedskaya K.</b> Shrubs of Olkhon Island (Secondary School No. 73, grade 9, Irkutsk)
11.45-12.00	<b>Khmylnina O.</b> Fires of Priangarye (Orthodox Women's Gymnasium, Center of Additional Education for Children, grade 7, Irkutsk)
12.00-12.15	<b>Sintsova A.</b> Ecology of Lake Baikal. Current Problems (Secondary School No. 23, Center of Additional Education for Children", grade 8, Irkutsk)

### **Session “Botany”**

Chairs: Zhuchenko Natalia, Anastasiya Koroleva

<b>Time</b>	<b>Room 703, 7<sup>th</sup> floor</b>
10.00-10.15	<b>Kopylova E.</b> Effect of growth stimulators on seed germination (Secondary School No. 73, grade 9, Irkutsk)
10.15-10.30	<b>Musintseva D.</b> Phytocenological studies of aquatic vascular plants from Yunnatsky pond (Center of Additional Education for Children", grade 10, Irkutsk)
10.30-10.45	<b>Ibragimov E.</b> Screening of regions on the presence of invasive species <i>Impatiens glandulifera</i> (Palace of Art for Children and Youth, Center for Special Education, grade 9, Tomsk)
10.45-11.00	<b>Tkalich K.</b> Selection of higher aquatic plants from local reservoirs for year-round cultivation (Palace of Art, grade 7, Irkutsk)
11.00-11.15	<b>Shagdaron Ya.</b> Studies of cultivation possibility of <i>Spirogyra Link</i> from Lake Baikal (Palace of Art, Secondary School No. 75, grade 7, Irkutsk)
11.15-11.30	<b>Mazanik N.</b> Comparative characteristics of fluctuating asymmetry in a birch leaf from Irkutsk (Palace of Art, Lyceum No. 3, grade 11, Irkutsk)
11.30-11.45	<b>Radnaeva A.</b> Influence of "live" and "dead" water on seed germination (Palace of Art, grade 7, Irkutsk)
11.45-12.00	<b>Nikolaenko A.</b> Studies of plant tissues and cells using a digital microscope (Secondary School No. 14, Center of Additional Education for Children", grade 10, Irkutsk)
12.00-12.15	<b>Vyborova A.</b> Winter flowers (Station of Young Naturalists, grade 6", Usolye-Sibirskoye)
12.15-12.30	<b>Darmodekhina D.</b> Plant pigments (Lyceum-Boarding School No. 1, grade 8, Irkutsk) Botany
12.30-12.45	<b>Korop A.</b> Phenology of Canadian maple (Lyceum-Boarding School No. 1, grade 7, Irkutsk) Botany
12.45-13.00	<b>Chernykh A.</b> Tanning agents in plants (Lyceum-Boarding School No. 1, grade 8, Irkutsk) Botany

### **13.00-14.30 Lunch**

(Molchanov-Sibirsky Library, Literary Cafe, 7<sup>th</sup> floor)

### **14.30-16.00 Closing ceremony of the Session 10. Results presented by school researchers**

(Room 204, 2<sup>th</sup> floor).

**September 12, Saturday 4<sup>th</sup> Baikal Symposium on Microbiology (BSM-2015)** "Microorganisms and Viruses in Aquatic Ecosystems" and **Session 3.** Microorganisms: distribution and symbiotic relationships in aquatic ecosystems (conference-hall, Limnological Institute):

**Session 5.** Advanced methods applied for studying aquatic microorganisms and viruses

Chairs: Dr. Natalia Belkova, Dr. Olga Pavlova

Secretariat: Alexandra Zakharenko, Elena Mamaeva

- 14:30 – 14:50     **Ahn T.S.<sup>1</sup>, Parfenova V.V.<sup>2</sup>, Jung D.<sup>1</sup> NEW METHOD FOR BACTERIA CULTIVATION FROM ENDEMIC BAIKALIAN SPONGES** <sup>1</sup>*Kangwon National University, Chunchon, Korea;* <sup>2</sup>*Limnological Institute SB RAS, Irkutsk, Russia*
- 14:50 – 15:10     **Belkova N.L., Sukhanova E.V., Shtukova Yu.R., Parfenova V.V. TWO STRATEGIES OF MICROORGANISMS SURVIVAL IN BIOFILM ASSOCIATIONS** *Limnological Institute SB RAS, Irkutsk, Russia*
- 15:10 – 15:30     **Matyugina E.B.<sup>1</sup>, Belkova N.L.<sup>2</sup> PECULIARITIES OF DISTRIBUTION AND DIVERSITY OF MICROBIAL COMMUNITIES IN MEROMICTIC SODA LAKE DORONINSKOE (ZABAICALIE, RUSSIA) DURING THE PERIODS OF BIOLOGICAL SPRING AND BIOLOGICAL SUMMER** <sup>1</sup>*Institute of Natural Resources, Ecology and Cryology SB RAS, Chita, Russia;* <sup>2</sup>*Limnological Institute SB RAS, Irkutsk, Russia*
- 15:30 – 15:50     **Radnagurueva A.A.<sup>1</sup>, Lavrentieva E.V.<sup>1</sup>, Namsaraev Z.B.<sup>2</sup>, Namsaraev B.B.<sup>1</sup> MICROBIAL DIVERSITY IN THE SALT LAKES BADAIN JARAN DESERT (INNER MONGOLIA, CHINA)** <sup>1</sup>*Institute of General and Experimental Biology SB RAS, Ulan-Ude, Russia;* <sup>2</sup>*National Research Centre "Kurchatov Institute", Moscow, Russia*
- 15:50 – 16:10     **Belykh O.I., Tikhonova I.V., Usova O.S., Potapov S.A., Butina T.V. ULTRAMICROBACTERIA OF LAKE BAIKAL** *Limnological Institute SB RAS, Irkutsk, Russia*
- 16:10 – 16:30     **Shtykova Y.R.<sup>1</sup>, Belkova N.L.<sup>1</sup>, Zhabina T.Y.<sup>2</sup>, Sukhanova E.V.<sup>1</sup>, Parfenova V.V.<sup>1</sup> INVESTIGATION OF VIABILITY OF MICROORGANISMS IN LONG-TERM STORAGE IN LABORATORY COLLECTIONS**  
<sup>1</sup> *Limnological Institute SB RAS, Irkutsk, Russia*  
<sup>2</sup> *Irkutsk State University, Irkutsk, Russia*
- 16:30 – 16:50     Coffee break (in the lobby of the conference-hall, Limnological Institute), Poster session
- 16:50 – 17:10     Presentations of sponsors
- 17:10 – 17:30     Poster session
- 17:30 – 18:00     Discussion of presentations
- 18:00                Closing ceremony of the Conference (conference-hall, Limnological Institute)
- 19:00 – 23:00     Farewell party in the restaurant of Hotel Irkutsk

**September 12, Saturday**

**Poster session**

**4<sup>th</sup> Baikal Symposium on Microbiology (BSM-2015)** "Microorganisms and Viruses in Aquatic Ecosystems" and **Session 3.** Microorganisms: distribution and symbiotic relationships in aquatic ecosystems (conference-hall, Limnological Institute)

**Bashenkhaeva M.V., Zakharova Y.R., Khanaev I.V., Likhoshway Y.V. STRUCTURAL AND FUNCTIONAL CHARACTERISTICS OF SUB-ICE COMMUNITIES FROM LAKE BAIKAL** *Limnological Institute, Siberian Branch of the Russian Academy of Sciences, Irkutsk, Russia*

**Bogatyrenko E.A.<sup>1</sup>, Buzoleva L.S.<sup>1,2</sup>, Bykovskaya A.N.<sup>1</sup> STUDYING OF INTESTINAL BACTERIAL COMMUNITIES STRUCTURE OF THE AMUR STURGEON *ACIPENSER SCHRENCKII* AND KALUGA *HUSO DAURICUS*** <sup>1</sup>*Far Eastern Federal University, Vladivostok, Russia;* <sup>2</sup>*G.P. Somov Research Institute of Epidemiology and Microbiology, Vladivostok, Russia*

**Bryanskaya A.V.<sup>1</sup>, Uvarova Y.E.<sup>1</sup>, Rozanov A.S.<sup>1</sup>, Malup T.K.<sup>1</sup>, Lazareva E.V.<sup>2</sup>, Taran O.P.<sup>3</sup>, Ivanisenko T.V.<sup>1</sup>, Peltek S.E.<sup>1</sup> CHARACTERISTICS OF MICROBIAL COMMUNITIES OF LAKE SOLENOYE (NOVOSIBIRSK REGION, RUSSIA) USING HIGH-THROUGHPUT SEQUENCING** <sup>1</sup>*Institute of Cytology and Genetics, The Siberian Branch of the Russian Academy of Sciences, Novosibirsk, Russia;* <sup>2</sup>*Institute of Geology and Mineralogy, The Siberian Branch of the Russian Academy of Sciences, Novosibirsk, Russia;* <sup>3</sup>*Boriskov Institute of Catalysis, The Siberian Branch of the Russian Academy of Sciences, Novosibirsk, Russia*

**Budagaeva V.G.<sup>1</sup>, Gorlenko V.M.<sup>2</sup>, Barkhutova D.D.<sup>1</sup> HETEROTROPHIC BACTERIA OF THE GENUS *Meiothermus* IN HYDROTHERMS OF PRIBAIKALYE (BURYATIA)** <sup>1</sup>*Institute of General and Experimental Biology, SB, RAS, Ulan-Ude, Russia;* <sup>2</sup>*Winogradsky Institute of Microbiology of the RAS, Moscow, Russia*

**Bukin S.V.<sup>1</sup>, Pavlova O.N.<sup>1</sup>, Kalmychkov G.V.<sup>2</sup>, Ivanov V.G.<sup>1</sup>, Hachikubo A.<sup>3</sup>, Khabuev A.V.<sup>1</sup>, Morozov I.V.<sup>4</sup>, Zemskaya T.I.<sup>1</sup> METHANOGENIC COMMUNITIES OF LAKE BAIKAL BOTTOM SEDIMENTS WITH DIFFERENT GEOCHEMICAL CONDITIONS: BIOLOGICAL DIVERSITY, SUBSTRATE SPECIFICITY, ACTIVITY OF THE PROCESSES OF FORMATION OF METHANE** <sup>1</sup>*Limnological institute SB RAS, Irkutsk, Russia;* <sup>2</sup>*A.P. Vinogradov Institute of Geochemistry SB RAS, Irkutsk, Russia;* <sup>3</sup>*Kitami Institute of Technology, Kitami, Japan;* <sup>4</sup>*Institute of Chemical Biology and Fundamental Medicine SB RAS, Novosibirsk, Russia*

**Venger M.P. THE STUDY OF VIRIOPLANKTON IN THE BARENTS SEA DURING THE POLAR NIGHT** *Murmansk Marine Biological Institute Kola Scientific Center of Russian Academy of Sciences, Murmansk, Russia*

**Galach'yants A.D., Belkova N.L., Sukhanova E.V., Parfenova V.V. DIVERSITY OF THE REPRESENTATIVES OF THE GENUS *SPHINGOMONAS* IN NEUSTONIC BIOFILM OF LAKE BAIKAL** *Limnological Institute SB RAS, Irkutsk, Russia*

**Gerasimova E.A.<sup>1,2</sup>, Plotnikov A.O.<sup>1</sup> FRESHWATER EUKARYOTIC MICROORGANISMS (CENTROHELIDA, MACROBIA) OF ORENBURG REGION** <sup>1</sup>*Institute for cellular and intracellular symbiosis UrB RAS, Orenburg, Russia;* <sup>2</sup>*Orenburg State University, Orenburg, Russia*

**Gogoleva O.A.<sup>1</sup>, Gogoleva N.E.<sup>2</sup>, Khlopko Yu.A.<sup>1</sup>, Plotnikov A.O.<sup>1</sup> TAXONOMIC COMPOSITION OF HYDROCARBON-OXIDIZING BACTERIAL COMMUNITIES IN SALT RIVERS OF ELTON REGION** <sup>1</sup>*Institute for cellular and intracellular symbiosis UrB RAS, Orenburg, Russia;* <sup>2</sup>*Kazan institute of biochemistry and biophysics KSC RAS, Kazan, Russia*

**Dagurova O.P.<sup>1</sup>, Garankina V.P.<sup>1</sup>, Dambaev V.B.<sup>1</sup>, Belkova N.L.<sup>2</sup> MICROBIOLOGICAL INDEXES OF WATER OF LAKE GUSINOE (WESTERN ZABAISKALIE)** <sup>1</sup>*Institute of General and Experimental Biology SB RAS, Ulan-Ude, Russia;* <sup>2</sup>*Limnological Institute SB RAS, Irkutsk, Russia*

**Dambinova E.Ts., Banzaraktsaeva T.G. DIVERSITY OF ANAEROBIC PSYCHROPHILIC AND PSYCHROTROPHIC BACTERIA IN COLD SPRINGS OF NORTHERN PRIBAIKALIE** *Institute of General and Experimental Biology SB RAS, Ulan-Ude, Russia*

**Denikina N.N., Chernogor L.I., Belkova N.L., Khanaev I.V., Belikov S.I. ASSOCIATION OF MICROORGANISMS USING CELL CULTURE OF PRIMITIVE FORMS OF BAIKAL SPONGE *LUBOMIRSKIA BAIKALENSIS*** *Limnological Institute SB RAS, Irkutsk, Russia*

**Dutova N.N., Drucker V.V. VIRIONEUSTON OF LAKE BAIKAL** *Limnological Institute Siberian Branch of the Russian Academy of Sciences, Irkutsk, Russia*

**Kalitina E.G., Charitonova N.A., Vach E.A. THERMOPHILIC BACTERIA IN HOT SPRINGS KULDUR** *Far East Geological Institute FEB RAS, Vladivostok, Russia*

**Kaluzhnaya O.V. DIVERSITY OF PHOTOTROPHIC MICROORGANISMS OF BAIKALIAN SPONGE SYMBIOTIC COMMUNITIES** *Limnological Institute SB RAS, Irkutsk, Russia*

**Kashinskaya E.N.<sup>1</sup>, Belkova N.L.<sup>2</sup>, Izvekova G.I.<sup>3</sup>, Simonov E.P.<sup>1</sup>, Solovyev M.M.<sup>1</sup> THE DIVERSITY OF MICROBIAL COMMUNITIES OF GASTROINTESTINAL TRACT OF SEVERAL FISH WITH DIFFERENT FEEDING HABITS IN LAKE CHANY** <sup>1</sup>*Institute of Animal Systematics and Ecology, SB RAS, Novosibirsk, Russia;* <sup>2</sup>*Limnological Institute, SB RAS, Irkutsk, Russia;* <sup>3</sup>*Institute for Biology of Inland Waters RAS, Borok, Russia*

**Kondrateva L.M.<sup>1</sup>, Litvinenko Z.N.<sup>1,2</sup>, Metelitsa E.K.<sup>2</sup> THE EFFECT OF UV-IRRADIATION ON THE STRUCTURE OF THE MICROBIAL COMPLEX OF GROUNDWATER** <sup>1</sup>*Institute of Water and Ecology Problems, FEB RAS, Khabarovsk, Russia;* <sup>2</sup>*Municipal unitary enterprise Vodocanal, Khabarovsk, Russia*

**Kopylov A.I.<sup>1</sup>, Zabotkina E.A.<sup>1</sup>, Sazhin A.F.<sup>2</sup>, Romanova N.D.<sup>2</sup> VIRIOPLANKTONE KARA SEA: THE EFFECT OF VIRUSES ON MORTALITY HETEROTROPHIC BACTERIA** <sup>1</sup>*I.D. Papanin` Institute for Biology of Inland Waters of RAS, Borok, Russia;* <sup>2</sup>*P.P.Shirshov` Institute of Oceanology of RAS, Moscow, Russia*

**Malnik V.V., Gorshkova A.S., Timoshkin O.A., Kostornova T.Ya., Potapskaya N.V. FECAL INDICATOR BACTERIA IN THE COASTAL AREA OF LAKE BAIKAL** *Limnological Institute SB RAS, Irkutsk, Russia*

**Mukhanov V.S., Rylkova O.A., Svinin S.S., Butina T.V., Belykh O.I. SPATIAL DISTRIBUTION AND SEASONAL DYNAMICS OF VIRUS-LIKE PARTICLES IN SEVASTOPOL BAY AND ADJACENT WATERS** <sup>1</sup>*Institute of Marine Biological Research RAS, Sevastopol, Russia,* <sup>2</sup>*Limnological Institute SB RAS, Irkutsk, Russia*

**Pavlova M.A. VIRIOPLANKTON ESTUARIES OF THE KARA SEA** *Murmansk Marine Biological Institute KSC RAS, Murmansk, Russia*

**Pavlova O.N.<sup>1</sup>, Bukin S.V.<sup>1</sup>, Lomakina A.V.<sup>1</sup>, Shubenkova O.V.<sup>1</sup>, Manakov A. Y.<sup>2</sup>, Moskvyn V.I.<sup>3</sup>, Morozov I.V.<sup>4</sup>, Mamaeva E.V.<sup>1</sup>, Nikitina A.A., Khabuev A.V.<sup>1</sup>, Zemskaya T.I.<sup>1</sup> DEEP THERMOPHILIC MICROORGANISMS IN THE SURFACE SEDIMENTS OF LAKE BAIKAL: BIOLOGICAL DIVERSITY AND ROLE IN THE TRANSFORMATION OF ORGANIC MATTER** <sup>1</sup>*Limnological Institute, SB RAS, Irkutsk, Russia;* <sup>2</sup>*Nikolaev Institute of Inorganic Chemistry, SB RAS, Novosibirsk, Russia;* <sup>3</sup>*Trofimuk Institute of Petroleum Geology and Geophysics, SB RAS, Novosibirsk, Russia;* <sup>4</sup>*Institute of Chemical Biology and Fundamental Medicine, SB RAS, Novosibirsk, Russia*

**Polevskaya O.S. THE INFLUENCE OF TEMPERATURE ON FORMATION OF BACTERIAL FOULING IN CAVE SNEZHAYA (WESTERN CAUCASUS)** *Institute of Water and Ecology Problems FEB RAS, Khabarovsk, Russia*

**Polevova S.V. MICROBIAL COMMUNITY IN A CAPSULE OF MOSS *OEDIPODIUM GRIFFITIANUM* (OEDIPODIOPSIDA, BRYOPHYTA) ACCORDING TEM** *Biology faculty of Lomonosov Moscow state university, Moscow, Russia*

**Polteva A.V., Galanina E.V. VIBRIOFLORA OF JAPANESE SCALLOP (*MIZUHOPECTEN YESSOENSIS*) FROM ANIVA BAY (SAKHALIN ISLAND)** *Sakhalin Research Institute of Fisheries and Oceanography, Yuzhno-Sakhalinsk, Russia*

**Potapov S.A., Tikhonova I.V., Butina T.V., Belykh O.I. ESTIMATE ULTRAMICROBACTERIA ABUNDANCE IN THE PLANKTON OF LAKE BAIKAL** *Limnological Institute Siberian Branch of Russian Academy of Sciences, Irkutsk, Russia*

**Selivanova E.A.<sup>1</sup>, Gogoleva N.E.<sup>2</sup>, Khlopko Yu.A.<sup>1</sup>, Plotnikov A.O.<sup>1</sup> TAXONOMIC COMPOSITION OF PROKARYOTES-ASSOCIATES OF HALOPHILIC PROTISTS** <sup>1</sup>*Institute for cellular and intracellular symbiosis UrB RAS, Orenburg, Russia;* <sup>2</sup>*Kazan institute of biochemistry and biophysics KSC RAS, Kazan, Russia*



**Starosyla Ye.V., Olejnik G.N., Urishinets V.I., Volikov U.N. THE CATALAZE ACTIVITY IN BENTHIC SEDIMENTS OF DIFFERENT TYPES OF WATER BODIES IN KYIV CITY** *Institute of hydrobiology NAS of Ukraine, Kyiv, Ukraine*

**Stepanova O.A. SEACH, ISOLATION AND STUDY OF NEW MARINE VIRUSES OF MICROALGAE; NEW METHODS, FACTS AND HYPOTHESES** *Federal State Budgetary Scientific Institution (FSBSI) "Institute of nature-technical systems", Sevastopol, Russia*

**Stepanova O.A. RESULTS OF EXPERIMENTAL STUDIES OF THE CONTACT OF ALGAL VIRUSES WITH MUSSELS *MYTILUS GALLOPROVINCIALIS*** *Federal State Budgetary Scientific Institution (FSBSI) "Institute of nature-technical systems", Sevastopol, Russia*

**Stroynov Ya.V., Philippov D.A. VIRIOPLANKTON IN THE SHICHENSKOE RAISED BOG (VOLOGDA REGION, RUSSIA)** *Papanin Institute for Biology of Inland Waters, Russian Academy of Sciences, Borok, Russia*

**Sukhanova E.V., Shtykova Y.R. ENZYMATIC ACTIVITY OF HETEROTROPHIC STRAINS FROM BIOFILMS SOLID SUBSTRAT ELITTORAL ZONE OF LAKE BAIKAL** *Limnological Institute SB RAS, Irkutsk*

**Sykilinda N.N.<sup>1</sup>, Gorshkova A.S.<sup>2</sup>, Bondar A.A.<sup>3</sup>, Kabilov M.R.<sup>3</sup>, Kadykov V.A.<sup>1</sup>, Kurochkina L.P.<sup>1</sup>, Mesyanzhinov V.V.<sup>1</sup>, Drucker V.V.<sup>2</sup>, Miroshnikov K.A.<sup>1</sup> GENOMES AND BIOLOGICAL CHARACTERISTICS OF TWO NEW *Pseudomonas aeruginosa* BACTERIOPHAGES OF THE Siphoviridae FAMILY FROM LAKE BAIKAL** <sup>1</sup>*M.M. Shemyakin and Yu.A. Ovchinnikov Institute of bioorganic chemistry of the Russian Academy of Sciences, Moscow, Russia;* <sup>2</sup>*Limnological Institute Siberian Branch of the Russian Academy of Sciences, Irkutsk, Russia;* <sup>3</sup>*SB RAS Genomics Core Facility, Institute of Chemical Biology and Fundamental Medicine Siberian Branch of the Russian Academy of Sciences, Novosibirsk, Russia*

**Filippova S.N.<sup>1</sup>, Surgucheva N.A.<sup>1</sup>, Akimov V.N.<sup>2</sup>, Sorokin V.V.<sup>1</sup>, Skladnev D.A.<sup>1</sup>, Karnysheva E.A.<sup>3</sup>, Brushkov A.V.<sup>3</sup>, Gal'chenko V. F.<sup>1</sup> BACTERIOPHAGES IN LOW TEMPERATURE SYSTEMS OF ARCTIC AND ANTARCTICA** <sup>1</sup>*Winogradsky Institute of Microbiology of the RAS, Moscow, Russia;* <sup>2</sup>*Skryabin Institute of Biochemistry and Physiology of Microorganisms (IBPM RAS), Puschino, Russia;* <sup>3</sup>*Faculty of Geology, Moscow State University, Moscow, Russia*

**Sherysheva N.G.<sup>1</sup>, Rakitina T.A.<sup>1</sup>, Povetkina L.P.<sup>1</sup>, Osipov G.A.<sup>2</sup> BENTHIC BACTERIAL COMMUNITY OF LAKE KANDRY-KUL (BASHKORTOSTAN)** <sup>1</sup>*Institute of Ecology of the Volga River basin of the RAS, Togliatti, Russia;* <sup>2</sup>*Group of Academician Y.F. Isakov, Bakoulev Center for Cardiovascular Surgery, Academy of Medical Sciences, Moscow, Russia*

**Shornikova E.A., Mordvintseva A.Yu., Moroz A.F., Shavelko A.O. MICROBIAL COMMUNITIES OF INTRACITY RESERVOIRS IN MIDDLE PRIOBYE** *Surgut state university, Surgut, Russia*

**Yatsenko-Stepanova T.N., Nemtseva N.V., Ignatenko M.E. MICROBIAL COMMUNITIES DIVERSITY IN INLAND WATERS OF ARID ZONES** *Institute of Cellular and Intracellular Symbiosis UrB RAS, Orenburg, Russia*