

Registration – 9.30, Room 224

Opening of the Conference – 10.00

Welcome speech

Alexey A. Levchuk, Deputy Director IrCh SB RAS, PhD (Technical Sciences)



### Session 1. Multidisciplinary science and technology

Tuesday, 20 May 2025

Venue: Room 224

Time: 10.15 – 12.50

Moderator:

Nadezhda N. Efimova, Ph.D. (Philology), Associate Professor IrCh SB RAS

1	<b>Viktor S. Gasan</b> ESI SB RAS, Irkutsk	The impact of natural factors on the functioning of energy systems and their forecasting
2	<b>Vladimir R. Gilmutdinov</b> ESI SB RAS, Irkutsk	Development of a hardware and software complex for inspection of steel turbine water conduits of hydroelectric power plants: design of the software interface.
3	<b>Tatyana V. Dobrovolskaya</b> ESI SB RAS, Irkutsk	A regression models application for a heat consumption forecasting and monitoring
4	<b>Liliya A. Ivanova</b> IrCh SB RAS, Irkutsk	Synthesis of new functional organotellurium compounds based on tellurium tetrabromide
5	<b>Tatiana A. Nikolaeva</b> LIN SB RAS, Irkutsk	Deep learning models for analyzing genetic variation in populations.
6	<b>Arina N. Petrova</b> IEC SB RAS, Irkutsk	Analysis of geochemical data on potential ore-bearing areas in the south of the Siberian plate
7	<b>Igor A. Puzanov</b> ESI SB RAS, Irkutsk	Identification of consumer connection phases in low-voltage distribution networks using power measurements
8	<b>Yana D. Severina</b> ESI SB RAS, Irkutsk	Modeling the energy systems development in the context of the energy transition using SpineOpt
9	<b>Darya K. Smirnova</b> IEC SB RAS, Irkutsk	Phylogenetic diversity of anaerobic microorganisms from sediments of Lake Baikal involved in the oxidation of polycyclic aromatic hydrocarbons
10	<b>Ivan N. Tyurnev</b> LIN SB RAS, Irkutsk	Application of the submersible spectrofluorimeter PhycoProbe for express monitoring of phytoplankton on the example of Southern Baikal
11	<b>Maxim S. Zarubov</b> IEC SB RAS, Irkutsk	Hydrogeological structure of the Baikit antecline
12	<b>Aleksei M. Grek</b> ESI SB RAS, Irkutsk	Prediction of the stator winding temperature of the Sayano-Shushenskaya HPP

The link for the distance participation - <https://telemost.yandex.ru/j/13428000677284>



### Session 2. Innovative research and advances in science

Tuesday, 20 May 2025

Venue: Room 115

Time: 10.15 – 12.30

Moderator:

Elena P. Mariasova, Senior lecturer, IrCh SB RAS

1	<b>Darya A. Budaeva</b> IrCh SB RAS, Irkutsk	Modern approaches to assessing the quality of AI-generated scientific texts
2	<b>Galina P. Yakobchuk</b> INRTU, Irkutsk	Linguistic turn in International Relations Theory: from structuralist oppositions to post-structuralist deconstruction of political identity
3	<b>Viktor K. Kropochev</b> IrCh SB RAS, Irkutsk	Comparative Analysis of Economic Discourse in Russia and China: Terminology, Metaphors, and Rhetorical Strategies
4	<b>Ksenia A. Barakhoeva</b> ISTP SB RAS, Irkutsk	Estimation of small solar flares influence on variations in the photosphere and chromosphere
5	<b>Aleksandra A. Budovkina</b> ISTP SB RAS, Irkutsk	Seasonal dynamics of horizontal neutral wind in the Baikal region according to Fabry-Perot interferometer data and different versions of the HWM model
6	<b>Konstantin M. Vasiliev</b> ISTP SB RAS, Irkutsk	Multiyear dynamics of thunderstorms in the Irkutsk region and near-Baikal lake territory against the background of solar activity from 1997 to 2023
7	<b>Elena D. Davydova</b> IG SB RAS, Irkutsk	Corporate geography as a modern research area
8	<b>Maksim B. Driga</b> ISTP SB RAS, Irkutsk	Localization of solar images using computer vision methods
9	<b>Artem A. Ushkalov</b> IG SB RAS, Irkutsk	Sustainable development of floodplain areas in the Selenga river delta.
10	<b>Konstantin S. Tszian</b> IG SB RAS, Irkutsk	Economic geography of cross-border cooperation: a case study of the Russian Far East and Transbaikalia border regions

### 13.00 - Closing of the Conference

Nataliya A. Sverdllova, Head of the Educational Center ISC IrCh SB RAS, Ph.D. (Philology), Associate Professor IrCh SB RAS

