

**Matrosov Institute for System Dynamics and Control Theory of Siberian Branch of
Russian Academy of Sciences
Siberian Institute of Plant Physiology and Biochemistry of Siberian Branch of
Russian Academy of Sciences
V.B. Sochava Institute of Geography of Siberian Branch of Russian Academy of Sciences
Institute of Mathematical Problems of Biology RAS – the Branch of the Keldysh Institute of Applied
Mathematics of the Russian Academy of Sciences”**

with the support of **GBIF: the Global Biodiversity Information Facility**



will arrange an
**INTERNATIONAL SCIENTIFIC CONFERENCE
“INFORMATION TECHNOLOGIES
IN THE RESEARCH OF BIODIVERSITY”**

Respected colleagues,

We are pleased to invite you to participate in the International Conference “Information Technologies in the Research of Biodiversity” <http://bit.icc.ru>, which will take place on September 11–14, 2018 (followed by the master class on data publishing skills on September 15–19) in Irkutsk, Russia at Matrosov Institute for System Dynamics and Control Theory of Siberian Branch of Russian Academy of Sciences. Integration of modern information technologies and classical methods of biodiversity research enables reaching new levels of knowledge acquisition. New demands on researchers require coordination, standardization and unification of data and methods.

The conference includes plenary and sectional reports, round tables, and master classes on the publication of biodiversity data for use in basic and applied research to provide you with principles for working with existing biodiversity information systems.

Those interested in participating can register electronically via <http://bit.icc.ru>.

Goals

1. Coordination of research interactions to digitize, standardize and publish data on biodiversity in Russia and other countries, as well as promoting and spreading modern international principles, resources and tools for working with biological data.
2. Consideration of modern principles for creating and integrating local and regional information system projects for biodiversity research in Russia and other countries.
3. Creation of infrastructures for implementing technological and information support to organizations seeking to exchange data and data analysis methods.
4. Development of specialized software for handling biodiversity research tasks.
5. Networking and exchange of experience, advanced technologies and trends in the field of distributed databases and data processing.

Conference sections

1. Global biodiversity data portals: data integration, use in knowledge generation tasks.
2. Information and analytical systems on biodiversity. Virtual natural history collections.
3. National data on biodiversity: the current state of digitization. Copyright issues, methods and concepts for assessing data quality.
4. Theoretical fundamentals and organization technologies of the information and telecommunications infrastructures. Standards for describing digital data, processing services, etc.
5. Methods, models, software systems and Web services for the analysis of biodiversity data.
6. Application of remote methods in vegetation mapping and biodiversity research.

The working languages of the conference are Russian and English. Participants will be given 20 minutes for a report in the plenary session and 15 minutes for a sectional session report. Poster session will be 2 hours long.

Important dates

January 20, 2018 – beginning of electronic registration.

March 1, 2018 – second information letter with information on preparation of extended abstracts, hotels and registration fee.

May 1, 2018 – electronic registration closed and abstracts accepted.

May 20–15 June, 2018 – confirmations of registration, conference and visa invitations.

August 30, 2018 – conference program online, arrival info.

September 11–14, 2018 – conference dates.

September 15–19, 2018 – optional workshop on data publishing.

Documents for visas issuing can be sent upon request as soon as registration is completed and registration fee is paid.

Programme committee

Chairman of the Programme Committee:

Bychkov Igor Vyacheslavovich, Academician of the Russian Academy of Sciences, ISDCT SB RAS, Irkutsk, Russia

Vice - Chairman of the Programme Committee:

Voronin Viktor Ivanovich, Dr. habil. (Biology), SIPPB SB RAS, Irkutsk, Russia

Members of the Programme Committee

Archambeau Anne-Sophie, Doctor in Oceanography, University Pierre and Marie Curie GBIF France / GBIF Europe, Institute of Research for Development, UMS PatriNat - Muséum National d'Histoire Naturelle.

Borodin Oleg Igorevich, Ph.D. (Biology), State Scientific and Production Association “State Research and Development Center for Biological Resources of the National Academy of Sciences of Belarus”, Minsk, Republic of Belarus

Erlingsson Ingimar, Swedish Museum of Natural History, Stockholm, Sweden

Hmelnov Alexey Evgenyevich, PhD (Technical Sciences), ISDCT SB RAS, Irkutsk, Russia
Kalyakin Mikhail Vladimirovich, Dr. habil. (Biology), Lomonosov Moscow State University, Moscow, Russia
Keping Ma, Professor, Ph.D., Institute of Botany, Chinese Academy of Sciences, Beijing, China
Konstantinova Nadezhda Alekseevna, Dr. habil. (Biology), PABGI KSC RAS, Apatity, Russia
Kubrak Svetlana Vladimirovna, Ph.D., Institute of Genetics and Cytology of the National Academy of Sciences of Belarus, Minsk, Republic of Belarus
Ovaskainen Otso, Professor of Mathematical Ecology, University of Helsinki, Helsinki, Finland
Petrosyan Varos Gareginovich, Dr. habil. (Biology), Severtsov IPEE RAS, Moscow, Russia
Ruzhnikov Gennadiy Mikhailovich, Dr. habil. (Technical Sciences), ISDCT SB RAS, Irkutsk, Russia
Schigel Dmitry Sergeevich, PhD (Entomology; Plant biology), GBIF Secretariat, Copenhagen, Denmark
Seregin Alexey Petrovich, Dr. habil. (Biology), Lomonosov Moscow State University, Moscow, Russia
Shekhovtsov Alexey Ivanovich, Ph.D. (Geography), IG SB RAS, Irkutsk, Russia
Ustinin Mikhail Nikolaevich, Dr. habil. (Physics and Mathematics), IMPB RAS – the branch of Keldysh IAM RAS, Pushchino, Russia
Vladimirov Igor Nikolaevich, Ph.D. (Geography), IG SB RAS, Irkutsk
Zverev Andrey Anatolievich, PhD (Biology), Tomsk State University, Tomsk, Russia

Organizing committee

Chairman:

Fedorov Roman Konstantinovich, Ph.D. (Technical Sciences), ISDCT SB RAS, Irkutsk, Russia

Vice-chairman:

Verkhovzina Alla Vasilievna, Ph.D. (Biology), SIPPB SB RAS, Irkutsk, Russia

Scientific Secretary:

Fereferov Evgeny Sergeevich, Ph.D. (Technical Sciences), ISDCT SB RAS, Irkutsk, Russia

Members of the Organizing Committee

Avramenko Yuriy Vladimirovich, PhD (Technical Sciences), ISDCT SB RAS, Irkutsk, Russia
Borovichev Evgeny Alexandrovich, PhD (Biology), PABGI KSC RAS, Apatity, Russia
Vetrov Alexander Anatolievich, ISDCT SB RAS, Irkutsk, Russia
Gachenko Andrey Sergeevich, PhD (Technical Sciences), ISDCT SB RAS, Irkutsk, Russia
Ivanova Natalia Vladimirovna, IMPB RAS – the branch of Keldysh IAM RAS, Pushchino, Russia
Krivenko Denis Alexandrovich, PhD (Biology), SIPPB SB RAS, Irkutsk, Russia
Madzhara Taras Igorevich, PhD (Technical Sciences), ISDCT SB RAS, Irkutsk, Russia
Melekhin Aleksey Valerievich, PhD (Biology), PABGI KSC RAS, Apatity, Russia
Murashko Vladislav Vitalievich, SIPPB SB RAS, Irkutsk, Russia
Popova Anastasia Konstantinovna, PhD (Technical Sciences), ISDCT SB RAS, Irkutsk, Russia
Sorokovoy Andrey Anatolievich, PhD (Geography), IG SB RAS, Irkutsk, Russia
Phillippova Nina Vladimirovna, Ph.D.(Biology), YuSU, Khanty-Mansiysk, Russia
Chepinoga Viktor Vladimirovich, Dr. habil. (Biology), IG SB RAS, Irkutsk, Russia
Shashkov Maxim Petrovich, IMPB RAS – the branch of Keldysh IAM RAS, Pushchino, Russia
Shumilov Alexander Sergeevich, ISDCT SB RAS, Irkutsk, Russia

Acceptance of registrations and abstracts

Deadline for participants to register and submit abstracts is May 1, 2018, via <http://bit.icc.ru>. Abstracts should be submitted in English.

The second information letter will contain guidance on preparation of proceedings, accomodation and the registration fee.

The organizers plan to publish conference proceedings in a separate collection indexed in the RSCI database, with extended materials also published in scientific journals focused on:

- Computing technologies <http://www.ict.nsc.ru/jct/>
- Mathematical biology and bioinformatics <http://www.matbio.org/>

Organizing Committee - contact information

Address: Matrosov Institute for System Dynamics and Control Theory, SB RAS, 134, Lermontov Str., Irkutsk, 664033, Russia

Tel.: +7 3952 453108

E-mail: bit@icc.ru

Site of the conference: <http://bit.icc.ru>



We hope to see you at the Conference!

The Organizing Committee requests your help in distributing this letter to other interested colleagues.