

Lomonosov Moscow State University
Department of Biology
Research Zoological Museum

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**THE RUSSIAN CONFERENCE
WITH FOREIGN PARTICIPATION**

**ADVANCED TECHNOLOGIES AND PROSPECTS OF
THE USAGE OF ZOOLOGICAL COLLECTIONS**

dedicated to the 90th anniversary of Dr. Olga L. Rossolimo

October 15–16, 2018

PROGRAM



Moscow

CONFERENCE PROGRAM COMMITTEE

M.P. Kirpichnikov, *Chair* — Academician of the Russian Academy of Sciences, Doctor of Biological Sciences, Dean of Biological Faculty, Lomonosov Moscow State University
M.V. Kalyakin, *Co-Chair* — Doctor of Biological Sciences, Director of Zoological Museum, Lomonosov Moscow State University

Program Committee Members

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Yu.A. Mazei — Doctor of Biological Sciences, Professor, Vice Rector and Head of the International Cooperation Department, Lomonosov Moscow State University
E.D. Vasilyeva — Doctor of Biological Sciences, Leading Researcher at Zoological Museum, Lomonosov Moscow State University;
P.S. Tomkovich — Doctor of Biological Sciences, Leading Researcher at Zoological Museum, Zoological Museum, Lomonosov Moscow State University.

CONFERENCE ORGANIZING COMMITTEE

A.M. Rubtsov, *Chair* — Doctor of Biological Sciences, Professor, Deputy Dean of Biological Faculty, Lomonosov Moscow State University
N.N. Spasskaya, *Co-Chair* — Candidate of Biological Sciences, Secretary for Research of Zoological Museum, Lomonosov Moscow State University
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CONFERENCE VENUE

Bolshaya Nikitskaya Street 2, Zoological Museum, Lomonosov Moscow State University

15 OCTOBER 2018

- 9.00–10.00 **CHECK-IN**
10.00–10.30 **OPENING OF THE CONFERENCE**
M.V. Kalyakin
Director of the Zoological Museum, Co-Chair of the Program Committee

**Section ASPECTS OF THE USE OF
ZOOLOGICAL COLLECTIONS IN RESEARCHES**

Moderator: A.B. Zetlin. *Secretary:* R.A. Nazarov

- 10.30–11.00 **N.B. Ananjeva, L.L. Voyta, M.G. Volkovitch, A.A. Golikov, M.B. Dianov, C.G. Medvedev, E.A. Petrova, S.Yu. Sinev, I.S. Smirnov, R.V. Smirnov, E.V. Syromyatnikova, R.G. Khalikov, A.V. Khalin, A.N. Shumeev** (St. Petersburg, Russia)
Research collections of the Zoological Institute of RAS as an information resource for the animal diversity investigations
- 11.00–11.30 **V.A. Spiridonov, A.B. Zetlin** (Moscow, Russia)
Resources of the marine biota collections: Their preservation and prospects
- 11.30–12.00 **COFFEE BREAK**
- 12.00–12.20 **A.A. Lissovsky¹, E.V. Obolenskaya¹, A.P. Saveljev², B.I. Sheftel¹, V.V. Stakheev³, S.V. Titov⁴** (¹Moscow, ²Kirov, ³Rostov-na-Dony, ⁴Penza, Russia)
Using of zoological collections in faunistic studies: the «Mammals of Russia» Project
- 12.20–12.40 **A.B. Savinetsky, D.D. Vasyukov, O.A. Krylovich, B.F. Khasanov** (Moscow, Russia)
An experience of formation and usage of comparative osteological collection for paleoecological purposes
- 12.40–13.00 **A.P. Ivanov** (Moscow, Russia)
Collection of eggs and nests in the Timiryazev State Biological Museum (Moscow): Its general characteristics and the history of formation
- 13.00–13.20 **A.A. Evteev** (Moscow, Russia)
Craniological collections of the Museum of Anthropology of MSU as a source of new data on the variation of internal structures of the human skull
- 13.20–13.40 **Yu.A. Stolpovsky, M.G. Lisichkina, S.N. Kashtanov** (Moscow, Russia)
Ex situ conservation of the pet breeds
- 13.40–14.00 **Panel discussion**
- 14.00–15.00 **LUNCH**

**Section ASPECTS OF THE USE OF
ZOOLOGICAL COLLECTIONS IN RESEARCH
(continued)**

Moderator: P.S. Tomkovich. *Secretary:* I.A. Murashev

- 15.00–15.30 **O.N. Kolchanov** (Novosibirsk, Russia)
On bioresource collections of institutes of the Ministry of Science and Higher Education: their inventory and development
- 15.30–16.00 **M.V. Kalyakin** (Moscow, Russia)
Results and prospects of development of the collection activity at the Lomonosov Moscow State University: Zoological collections
- 16.00–16.20 **E.D. Vasil'eva** (Moscow, Russia)
A fresh look at historical collections: Modern taxa described on the materials from past centuries
- 16.20–16.40 **O.L. Silaeva, A.N. Varaksin, T.V. Sviridova, Y.A. Bogdanova** (Moscow, Russia)
Feathers collection in Severtsov Institute of Ecology and Evolution RAS
- 16.40–17.00 **V.A. Ostapenko, E.A. Makarova, M.A. Lomskov** (Moscow, Russia)
Practice of use in educational process of higher education institution of museum and live collections of animals
- 17.00–17.30 **COFFEE BREAK**
- 17.30–17.50 **E.G. Potapova** (Moscow, Russia)
Similarity among the rodent skulls: Parallelism or evidence of relationship?
- 17.50–18.10 **A.I. Shatalkin, T.V. Galinskaya** (Moscow, Russia)
The role of nomenclature types in practice of describing new species according to the international code of the zoological nomenclature
- 18.10–18.30 **K.G. Mikhailov, D.L. Ivanov** (Moscow, Russia)
Type collection of the invertebrates in the Zoological Museum of Moscow State University
- 18.30–19.00 **Panel discussion. Poster session**

16 OCTOBER 2018

**Section INFORMATION SUPPORT STORAGE
AND THE USE OF ZOOLOGICAL COLLECTIONS**

Moderator: M.V. Kalyakin. *Secretary:* A.A. Morkovin

- 9.00–9.30 **P. Hutchings, E. Kupriyanova** (Sydney, Australia)
Developing museum marine invertebrate collections, their digitization and the value of such collections: An Australian perspective
- 9.30–9.50 **D.V. Tikhonenkov¹, A.Yu. Tychkov², A.I. Azovsky³, A.A. Bobrov³, A.P. Mylnikov¹, E.A. Gerasimova⁴, K.I. Prokina¹, A.N. Tsyganov^{2,3}, Yu.A. Mazei^{2,3}**
(¹Borok, ²Penza, ³Moscow, ⁴Orenburg, Russia)
Integrated information web-system on protist biodiversity “Protist.ru”
- 9.50–10.10 **V.A. Blagoderov** (Edinburgh, UK)
Digitizing everything: what have we learned in 10 years?
- 10.10–10.30 **N.N. Butorina, S.V. Zinovieva, V.G. Petrosyan** (Moscow, Russia)
Website, information retrieval system and database of the Helminthological museum of RAS
- 10.30–10.50 **P.A. Smirnov, E.A. Koblik, Yu.A. Yermilina, Ya.A. Redkin, AA Lisovsky, Yu.M. Baranova, T.Yu. Belyakova, I.A. Murashev, P.S. Tomkovich, M.V. Kalyakin** (Moscow, Russia)
An experience of the digitization of birds collection of the Zoological Museum of Moscow State University: Important details, inevitable errors, further perspectives
- 10.50–11.20 **COFFEE BREAK**
- 11.20–11.40 **M. Shashkov¹, N. Ivanova¹, N. Filippova², D. Schigel³**
(¹Pushchino, ²Khanty-Mansiysk, Russia; ³Kopenhagen, Denmark)
Perspectives, solutions and tools from GBIF for digitization and development of natural history collections
- 11.40–12.00 **O.V. Zaitseva¹, E.E. Voronezhskaya², A.A. Petrov¹, V.V. Starunov¹, A.N. Shumeev¹, M.B. Dianov¹, D.K. Obukhov¹, S.A. Petrov¹** (¹St. Petersburg, ²Moscow, Russia)
Collections of histological preparations of animals as a basis for creation of the public educational thematic electronic databases
- 12.00–12.20 **O.G. Nanova** (Moscow, Russia)
Scientific collections and digital technologies today
- 12.20–12.40 **A.P. Seregin** (Moscow, Russia)
Herbarium of Lomonosov Moscow State University today
- 12.40–13.00 **S.S. Gogoleva¹, I.Yu. Ilyina¹, V.Yu. Arkhipov²**
(¹Moscow, Pushchino², Russia)
Sound collection of the Zoological Museum of Lomonosov Moscow State University as compared to the world experience
- 13.00–14.00 **LUNCH**

**Section ZOOLOGICAL COLLECTIONS AND
DEVELOPMENT OF GENETIC RESEARCHES**

Moderator: A.A. Lisovsky. *Secretary:* E.N. Solovyeva

- 14.00–14.30 **E. Kupriyanova, P. Hutchings** (Sydney, Australia)
Natural history collections in the genomic era: an Australian perspective
- 14.30–14.50 **N.I. Abramson, T.V. Petrova** (St. Petersburg, Russia)
Genetic studies of zoological collections with special reference to rodents: intermediate results and further perspectives
- 14.50–15.10 **D.V. Politov, E.A. Mudrik** (Moscow, Russia)
Molecular genetics approaches to the analysis of intra-specific structure, microsystematics and microevolution in birds
- 15.10–15.30 **E.N. Solovyeva** (Moscow, Russia)
Museum collections and DNA
- 15.30–15.50 **A.V. Nedoluzhko** (Moscow, Russia)
Modern genomics for paleobiology
- 15.50–16.20 **COFFEE BREAK**

Section GENERAL ISSUES OF COLLECTION ACTIVITIES

Moderator: E.D. Vasilieva. *Secretary:* E.A. Galoyan

- 16.20–16.50 **I.Ya. Pavtinov** (Moscow, Russia)
Nontrivial collections
- 16.50–17.10 **B. Kryštufek** (Ljubljana, Slovenia)
Who cares about natural history collections?
- 17.10–17.30 **S.V. Efimov, A.V. Rappoport** (Moscow, Russia)
Some aspects of the living collections formation in the Botanical Garden of Moscow State University
- 17.30–17.50 **I.V. Fadeev** (Moscow, Russia)
Attribution of zoological collections by indirect features
- 17.50–18.10 **K.G. Mikhailov** (Moscow, Russia)
Arachnology in Russia/USSR: Collections and collectors
- 18.10–18.30 **A.D. Mironov** (St. Petersburg, Russia)
A forgotten method. Sublimation of museum specimens
- 18.30–18.50 **N.Yu. Neretin, A.E. Zhadan, G.D. Kolbasova, A.V. Kotenev, T.V. Neretina, A.B. Tzetlin** (Moscow, Russia)
WSBS MSU — a new collection center in the North West Russia
- 18.50–19.10 **Panel discussion**
- 19.10–19.40 **CLOSING CONFERENCE.**
Discussion by sections moderators
Final discussion, adoption of the draft resolution of the Conference
Concluding remarks
- 19.40–21.30 **FURSHET**

PRESENTATIONS; *CORRESPONDENCE PARTICIPATIONS

***V.V. Bobrov** (Moscow, Russia)

Role of zoological collections in preparation of regional faunistic reports (on the example of lizards of Vietnam)

***A.G. Vasil'ev, I.A. Vasil'eva** (Ekaterinburg, Russia)

Population meronomy, phenotyping and population museum collections

***Yu.V. Dyldin¹, A.M. Orlov²** (¹Tomsk, ²Moscow, Russia)

Use of ichthyological collections in regional generalizations exemplified by Sakhalin Region

V.Yu. Ilyashenko (Moscow, Russia)

Nestlings of representatives of cuculiformes, apodiformes, coraciiformes, upupiformes, piciformes, and passeriformes of the fauna of Russia absent in the Zoological Museum of Moscow State University collection

M.V. Kasatkin, A.P. Ivanov (Moscow, Russia)

Collection of bones of Steller's sea cow *Hydrodamalis gigas* in the Timiryazev State Biological Museum (Moscow)

***R.D. Kashkarov** (Toshkent, Uzbekistan)

Rare species of birds and mammals in the zoological collections of Uzbekistan

***P.A. Kosintsev** (Ekaterinburg, Russia)

Archaeozoological collections in Russia

***A.D. Mironov, A.V. Kolomiets** (St. Petersburg, Russia)

The protection of zoological collections. The second life of the Eppendorf tube

***Yu.O. Mitropolskaya, R.D. Kashkarov** (Toshkent, Uzbekistan)

Zoological collections of Uzbekistan as a basis for an inventory of the modern fauna

***J. Mlíkovský** (Praha, Czech Republic)

Historical dispersion of type specimens: Birds described on the basis of the specimens from Siberia

A.M. Orlov, I.V. Grigorov, N.I. Lazareva (Moscow, Russia)

Comparative morphological analysis of the morid cods (*Antimora spp.*, Moridae, Gadiformes) from ichthyological collections

E.G. Potapova (Moscow, Russia)

Prospects in different microscopy and computer tomography for analysis of the musculoskeletal system head

D.V. Semenov (Moscow, Russia)

Dried skins as a supplementary method of long-lasting keeping of the collections of small reptiles

N.N. Spasskaya (Moscow, Russia)

Osteological collection of domestic horses and prospects of its use in scientific research

***A.V. Tolstikov** (Tyumen, Russia)

A phenomenon of the trust, and depositing research materials in the zoological collections