**Workshop “Comparative anatomy of invertebrates”**

**(Practical course)**

The Department of Invertebrate Zoology, Lomonosov Moscow State University, announces the #icim4Moscow workshop dedicated to Comparative Anatomy of Invertebrates will perform from 11th till 17th of August, 2017 (<http://www.icim4.com/workshops>; http://invert.bio.msu.ru/en/175-workshop-comparative-anatomy).

Our workshop is a unique opportunity to be involved in the activities of World famous Russian Zoological School, to practice your dissecting skills and be part of scientific conversations with real experts in the field. So, hurry up to upgrade your knowledge in invertebrate zoology!

**Tentative Program**

Each class includes theory and practice. Theoretical part will cover peculiarities of invertebrates’ morphology, anatomy, histology and ultrastructure. At practical classes students will examine diversity of external morphology of live specimens, learn anatomy *via* dissection, and study tissue and cell types *via* observation of histological sections. At the end of the Course there will be a round table where students and teachers will master in comparative anatomy of organizations of examined invertebrates and evaluation their morphological traits in light of accepted theories of evolution and known phylogenetic/ phylogenomic data.

**August 11, 2017, Friday**

8:30 **Introduction to the Course**

9:00-12:00 **Porifera, Dr. Andrey Lavrov**, practical objects: *Halichondria, Haliclona, Halisarca, Leucosolenia, Sycon* etc.

13:30-17:00 **Cnidaria (overview of morphology of main stages ), Dr. Igor Kosevitch,** practical objects: *Gersemia fruticosa, Nematostella victensis, Aurelia aurita, Cassiopea sp., Hydra sp.* and other hydrozoan species.

**August 12, 2017, Saturday**

9:00-12:00 **Annelida, Dr. Nadezhda Rimskaya-Korsakova & Dr. Glafira Kolbasova**, practical objects: *Alitta virens*, *Lumbricus terrestris*, *Hirudo medicinalis, Pectinaria sp., Ophelia limacina*.

13:30-17:00 **Lophophorata, Dr. Tatyana Kuzmina & Dr. Elena Temereva**,practical objects: *Hemithris psittacea, Lingula, Phoronis, Phoronopsis harmeri.*

**August 13, 2017, Sunday**

**Free day (**nice possibility to visit Moscow downtown; if participants will be interested it is possible to make a joint tour)

**August 14, 2017, Monday**

9:00-12:00 **Mollusca, Dr. Elena Vortsepneva, Irina Ekimova & Anna Mikhlina**,practical objects: *Tonicella marmorea, Chaetoderma sp., Mytilus edulis, Yoldia sp., Testudinalia testudinalis, Littorina littorea, Helix sp., Flabellina sp., Dendronotus sp.*

13:30-17:00 **Echinodermata, Dr. Elena Temereva & Dr. Tatyana Kuzmina**, practical objects: *Asterias rubens, Strongylocentrotus pallidus, Chiridota laevis*

**August 15, 2017, Tuesday**

9:00-12:00 **Chelicerata, Dr. Ekaterina Bogomolova**,practical objects: *Limulus polyphemus, Nymphon sp., Buthus sp., Ixodes sp.*

13:30-18:00 **Crustacea and Insecta, Dr. Alexandra Petrunina**, practical objects: *Astacus leptodactylus, Periplaneta americana, Nauphoeta cinerea, Blaberus craniifer, Gromphadorrhina portentosa*

**August 16, 2017, Wednesday**

9:00-12:00 **Nematoda, Prof. Alexei Tchesunov**, practical objects: Mermithida, Enoplida.

13:30-15:00Class of standardized protocol of **fish inspectation for external parasites and fish dissection to look for internal parasites, Dr. Natalia Biserova**

15:00-18:00 **Tardigrada, Nematomorpha, Priapulida, Kinorhyncha. Prof. Alexei Tchesunov**

**August 17, 2017, Thursday**

9:00-12:00 **Platyhelminthes, Dr. Yaroslav Zabotin** (Institute of Fundamental Medicine

and Biology, Kazan), practical objects: tba

13:30-18:00 **Round table on comparative anatomy of invertebrates**

Applications **deadline 30 May 2017, or until the first 12 applications are received**.

**Venue and Course fee see here** (<http://www.icim4.com/workshops>; http://invert.bio.msu.ru/en/175-workshop-comparative-anatomy).