

Scientific programme

MONDAY 3 JULY

- 9.00 - 9.30 **Welcome and opening**
- 9.30 - 10.30 **The Honorary Thienemann Lecture: Molecular and integrative systematics in Chironomidae**
Torbjørn Ekrem
Chair: Peter Cranston
- 10.30 - 11.10 **Coffee break, Group photo**
- 11.10 - 12.30 **Autecology and Physiology I**
Chair: Leonard C. Ferrington Jr
- 11.10 **Larval respiratory systems in nematocerous Diptera (Insecta) with particular reference to their evolution and development in Chironomidae and related families**
Patrick Ashe
- 11.30 **Extracellular haemoglobin and environmental stress tolerance in *Chironomus* larvae**
Bimalendu B. Nath
- 11.50 **The predatory behaviour of *Monopelopia tenuicalcar* (Kieffer 1918) larvae under laboratory conditions**
Vít Syrovátka
- 12.10 **Water velocity and substrate availability may explain the coexistence of several congeneric species of midges in small streams**
Narcís Prat
- 12.30 - 14.00 **Lunch**
- 14.00 - 15.00 **Taxonomy and Systematics I**
Chair: Andrey Przhiboro
- 14.00 **Evolution and natural history of non-biting midges in the genus *Tanytarsus* v. d. Wulp (Diptera, Chironomidae)**
Xiaolong Lin

14.20 **DNA barcoding reveals potential cryptic diversity in *Polypedilum* non-biting midges**
Chao Song

14.40 **Review of subfamily Diamesinae (Diptera, Chironomidae) from Tien Shan and Pamir Mountains**
Eugeniy A. Makarchenko

15.00 - 16.00 **Poster session I**

Chair: Laura Marziali

1 • **Palaeoecological analysis of subfossil Chironomidae in the moat of late-medieval motte in Rozprza, Central Poland**
Olga Antczak

2 • **Changes in temperature and water depth of a small mountain lake during the past 3000 years in Central Kamchatka reflected by chironomid record**
Farida Goncharova

3 • **Reconstruction of Holocene palaeoclimate and palaeoenvironment on Kola peninsula (North-Western Russia) based on chironomid analysis**
Ivan Grekov

4 • **Reconstruction of the recent history of a large deep prealpine lake (Lake Geneva, Switzerland) using subfossil chironomids and diatoms: towards the definition of a lake-specific reference state**
Brigitte Lods-Crozet

5 • **Chironomid analysis and reconstruction of Holocene climate in the Khatanga region, Taymyr, Russian Arctic**
Liudmila Syrykh

6 • **A new species of *Heterotrissocladius* Spärck, 1923 (Diptera, Chironomidae) from Georgia, USA**
Broughton A. Caldwell

25 • **Integrating molecular and morphological data for chironomid systematics: a case study of *Cricotopus* (Diptera, Chironomidae)**
Peter S. Cranston

7 • A key to the larvae of the genera of Chironomidae of Neotropical and Antarctic regions

Fabio Laurindo da Silva

8 • Transatlantic *Cricotopus sylvestris* revisited: population structure or endemic species?

Susan E. Gresens

9 • Comparison of selected part of larval morphology in some species of the genus *Chironomus* (Chironomidae, Diptera) using scanning electron microscope (SEM)

Andrzej Kownacki

10 • Notes on taxonomy of some chironomid (Diptera, Chironomidae) taxa based on examination of immature stages collected in Hungary

Arnold Móra

11 • Ecology and karyotype of *Chironomus* (s. str.) *salinarius* Kieffer (Diptera, Chironomidae) from rivers of the Lake Elton Basin (Russia)

Tatiana D. Zinchenko

12 • Comparative analysis on chironomids and carabids diversity and distribution along a chronosequence of glacier retreat

Mauro Gobbi

16.00 - 16.30 Coffee break

16.30 - 17.50 Ecology and Biomonitoring I

Chair: Narcís Prat

16.30 **Chironomids on the banks of brooks above the water level**

Henk K. M. Moller Pillot

16.50 **Chironomidae of the Western Carpathian spring fens: an overview of current research**

Vanda Rádková

17.10 **Chironomidae fauna of springs in Iceland – Tuxen's hot springs revisited**

Agnes-Katharina Kreiling

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- 17.30 **Littoral chironomid assemblages in the reservoirs along the eastern Adriatic coast**
Zlatko Mihaljević

TUESDAY 4 JULY

9.00 - 10.20 **Ecology and Biomonitoring II**

Chair: Henk Moller Pillot

- 9.00 **Collections of surface floating pupal exuviae provide differential sensitivity to detect compositional changes across stream orders at small spatial scales**
Leonard C. Ferrington Jr
- 9.20 **Patterning the variability of chironomid-based metrics: the potential in the bioassessment of non-wadeable rivers**
Dubravka Čerba
- 9.40 **Faunistic overview of Chironomidae (Insecta, Diptera) in lowland running waters of northeast Germany (Brandenburg) based on 10-year EU-Water Framework Directive monitoring programme**
Claus Orendt
- 10.00 **Chironomidae from unmanaged and restored Norfolk (UK) ponds**
Leslie P. Ruse

10.20 - 10.50 Coffee break

10.50 - 12.30 **Toxicology and Adaptive Biology**

Chair: Bimalendu Nath

- 10.50 **Effects of binary mixtures of ultraviolet filters octocrylene and 2-ethylhexyl 4-(dimethylamino) benzoate (OD-PABA) on *Chironomus riparius***
Ana-Belén Muñiz-González
- 11.10 **Response of *Diamesa* spp. from glacier-fed streams to temperature variations, emerging contaminants and pesticides**
Valeria Lencioni

11.30 **Response of *Chironomus riparius* detoxification mechanisms to ultraviolet filters**

José-Luis Martínez-Guitarte

11.50 **Life-traits and genetic analysis for evaluation of long-term effects of perfluorinated compounds (PFASs) on *Chironomus riparius* (Diptera, Chironomidae) under a multi-generational approach**

Laura Marziali

12.10 **Variability of mentum shape in *Chironomus tentans* (Diptera, Chironomidae) larvae as an indicator of nano-TiO₂ contamination**

Dimitrija Savić

12.30 - 14.00 Lunch

14.00 - 15.00 **Taxonomy and Systematics II**

Chair: Xinhua Wang

14.00 **On the genus *Chaetocladius* s. str. Kieffer, 1911 from Switzerland with descriptions of five new relic species occurring in glacial alpine rheocrenes and streams (Diptera, Chironomidae)**

Joel Moubayed-Breil

14.20 **Two new chironomids bearing peculiar features from Japan**

Masaru Yamamoto

14.40 **Functional anatomy of the chironomid male genital segment**

Peter H. Langton

15.00 - 16.00 **Poster session II**

Chair: Jón S. Ólafsson

13 • **Chironomidae of brooks with tufa precipitation: unique biotopes in a post-mining landscape**

Martina Bartošová

14 • **Presence and distribution of chironomids (Diptera, Chironomidae) in selected wetlands at different typology and salinity located near Cabras (Sardinia, Italy)**

Giuseppe Ceretti

15 • Chironomid fauna (Diptera, Chironomidae) of the Amur River Basin (Far East)

Nadezhda M. Yavorskaya

16 • Communities of Chironomidae from four ecological zones delimited by the Mediterranean coastal ecosystem of Morocco (Moroccan Rif). Updated list and faunal data since the last two decades

Kettani Kawtar

17 • Diversity and distribution of chironomids (Diptera, Chironomidae) in pre-Alpine springs (Veneto and Trentino, Northern Italy)

Leonardo Latella

18 • The non-biting midges of Svalbard

Elisabeth Stur

19 • Seasonal dynamics of chironomid fauna (Diptera, Chironomidae) of the Ohrid Lake

Radmila Ilievska

20 • Adult emergence of the nuisance chironomid *Chironomus salinarius* Kieffer in two Italian lagoons along the northern coast of the Adriatic Sea

Uberto Ferrarese

21 • Estimate of production and diet using fatty acid analyses of chironomid larvae in saline rivers (Basin of Lake Elton, Russia)

Larisa V. Golovatyuk

22 • Ultraviolet filters and stress: effects of benzophenone-3 and 4-methylbenzylidene camphor on transcriptional activity of heat shock protein genes of *Chironomus riparius*

Raquel Martín-Folgar

23 • The influence of historical contamination with heavy metals on Chironomidae (Diptera) communities in the Chechło River and small ponds situated on the floodplain (Southern Poland)

Ewa Szarek-Gwiazda

24 • **Behavioural effects of emerging contaminants and pesticides on *Diamesa zernyi* from a glacier-fed stream**
Sara Villa

16.00 - 16.30 Coffee break

16.30 - 17.50 **Ecology and Biomonitoring III**

Chair: Malcolm G. Butler

16.30 **How chironomid community structure changes along the trout farm effluents gradient**
Djuradj Milošević

16.50 **Chironomidae (Diptera, Insecta) in Fiji: new records and applications for the tropical South Pacific**
Michelle McKeown

17.10 **Immature Chironomidae and other macroinvertebrates in the habitats of bipolar distributed *Sphagnum* species: a comparison of bogs in north western Russia and southern Chile**
Andrey Przhiboro

17.30 **Chironomidae from Eastern Amazon: influences of land use at the riparian buffer scale**
Kathia Crithina Sonoda

WEDNESDAY 5 JULY (IN VERONA)

9.15 - 9.30 **Welcome at the Natural History Museum, Verona**

9.30 - 10.30 **Genetics and Cytogenetics**

Chair: Susan E. Gresens

9.30 **Analysis of gene location in genomes of species from the genus *Glyptotendipes* (Diptera, Chironomidae)**
Oksana V. Ermolaeva

9.50 **Genome instability in *Chironomus annularius* sensu Strenzke (Diptera, Chironomidae) – a biomarker for assessment of the contaminants in Chechło River (Poland)**
Paraskeva Michailova

10.10 **Gene localization in genomes of species from the genus *Chironomus* (Diptera, Chironomidae)**
Veronika V. Golygina

10.30 - 11.00 Coffee break

11.00 - 13.00 **Autecology and Physiology II**

Chair: Peter Ashe

11.00 **Seasonal dynamics of chironomids in impounded river: taxa composition and life cycles**
Karel Brabec

11.20 **Pre-emergence growth and development in the arctic midge *Trichotanypus alaskensis* Brundin**
Malcolm G. Butler

11.40 **Population trends and the diet of chironomid larvae in a stream colonized by *Didymosphenia geminata***
Jón S. Ólafsson

12.00 **Difference of *Chironomus nipponensis* larval growth rate among different water depths in deep Lake Nojiri, Central Japan**
Kimio Hirabayashi

12.20 **Can we guess the autecology following the variability of mandible shape in the Chironomidae family?**
Aca Đurđević

12.40 **Proteomic and biophysical analysis of aquatic silk protein from *Chironomus ramosus***
Leena Thorat

13.00 - 14.30 Lunch

THURSDAY 6 JULY

9.30 - 10.30 **Taxonomy and Systematics III**

Chair: Joel Breil-Moubayed

9.30 **A new anhydrobiotic midge from Malawi, *Polypedilum pembai* sp. nov. (Diptera, Chironomidae), closely related to the desiccation tolerant midge, *Polypedilum vanderplanki* Hinton**

Richard Cornette

9.50 **Four *Polypedilum* species living on floating fern plants in Japan (Diptera, Chironomidae)**

Nao Yamamoto

10.10 **Breaking the rule: five larval instars in the podonomine midge**

Trichotanypus alaskensis **Brundin from Barrow, Alaska**

Alec R. Lackmann

10.30 - 11.00 Coffee break

11.00 - 12.40 **Palaeolimnology**

Chair: Elisabeth Stur

11.00 **Subfossil and recent Chironomidae of a deep lake formed in the last glacial period**

Christian Frank

11.20 **Subfossil chironomids of Central American lakes: taxonomic composition and driving factors**

Ladislav Hamerlík

11.40 **Northern Russian chironomid-based modern summer temperature datasets and inference models and their implication for temperature reconstructions**

Larisa Nazarova

12.00 **Subfossil chironomids from the sediments of man-made reservoirs as a tool for tracking back human influence in a mining region**

Tímea Chamutiová

12.20 **What can we learn from Chironomidae species complexes preserved in amber**

Viktor Baranov

12.40 - 14.00 Lunch

14.00 - 16.00 **Taxonomy workshop**

Chair: Peter Langton

16.00 - 16.30 Coffee break

16.30 - 18.30 **Final forum**

Chairs: Martin Spies and Valeria Lencioni

In memoriam

- Hiroshi Hashimoto *by Masaru Yamamoto*
- Maria Rieradevall *by Narcis Prat*
- Nikolai Shobanov *by Eugenyi Makarchenko*
- Wolfgang Wuelker *by Peter Cranston*

Award-giving Ceremony

Publication of Symposium Proceedings

Vote and Announcement of the 21st ISC

Closing discussion and Farewell