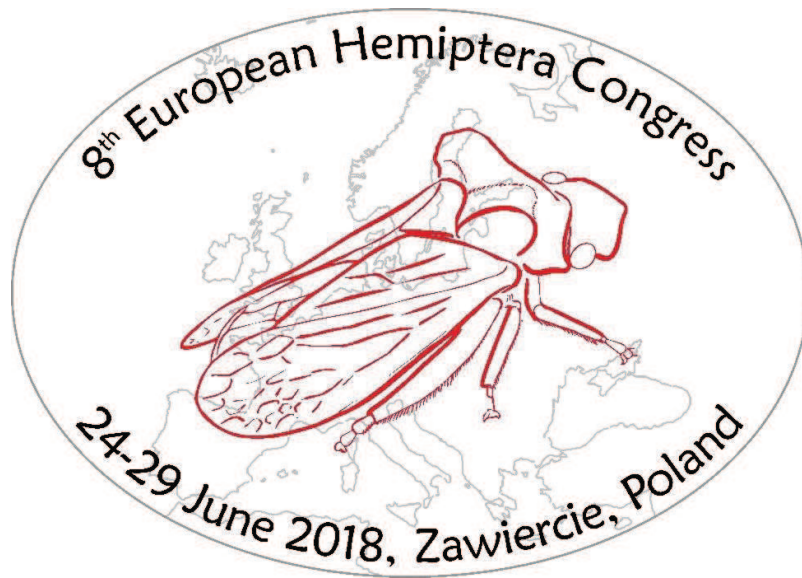


Department of Zoology
Faculty of Biology and Environmental Protection
University of Silesia in Katowice

**8th EUROPEAN HEMIPTERA
CONGRESS**



Katowice-Zawiercie, 24 – 29 June 2018

ORGANIZERS:

- Department of Zoology, Bankowa 9, 40-007 Katowice
- University of Silesia in Katowice

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Department of Zoology
University of Silesia in Katowice



Upper Silesian Museum
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PROGRAM OF THE 8TH EUROPEAN HEMIPTERA CONGRESS

Place of the conference:

- **Hotel Congress & Spa Villa Verde * * * ***
Mrzygłodzka 273, 42-400 Zawiercie

SUNDAY, 24 June 2018

14:00-19:00	Registration
19:00-21:00	Dinner

MONDAY, 25 June 2018

7:00-9:00	Breakfast
8:30-9:00	Registration
9:00-9:15	OPENING CEREMONY Jolanta Brożek – Chair of the Organising Committee
9:15-9:45	Colin Favret – Plenary lecture <i>University of Montreal, Biodiversity Centre</i> Cybertaxonomy, phylogenomics, and other big words: Can they really solve the challenges of Hemiptera systematics?

9:45-13:00	I Session – Chair Werner Holzinger
9:45-10:05	Thierry Bourgoïn¹, Eric Guilbert², Menglin Wang³ <i>¹ ISYEB, UMR 7205 MNHN-CNRS-Sorbonne Université-EPHE, MNHN</i> <i>² MECADEV, UMR 7179 CNRS-MNHN, MNHN</i> <i>³ College of life sciences, China West Normal University, Nanchong, Sichuan, China</i> Issidae molecular K-Libration
10:05-10:25	Valeria Trivellone^{1,2}, Luisa Filippin², Dmitry A. Dmitriev¹, Elisa Angelini², Christopher H. Dietrich¹ <i>¹ Illinois Natural History Survey, University of Illinois</i> <i>² C.R.E.A., Centro di Ricerca per la Viticoltura ed Enologia</i> Is phylogenetic relatedness Predictive of leafhopper-phytoplasma specificity?
10:25-11:00	COFFEE BREAK
11:00-11:20	Ersin Demirel <i>Mustafa Kemal University Tayfur Sokmen Campus Science and Arts Faculty Department of Biology</i> Cicadoidea (Hemiptera, Cicadomorpha) fauna of Mt. Musa (Hatay Province, Turkey)
11:20-11:40	Jacek Szwedo¹, Bo Wang², Jowita Drohojowska³ <i>¹ Laboratory of Evolutionary Entomology and Museum of Amber Inclusions, Department of Invertebrate Zoology and Parasitology, Faculty of Biology, University of Gdańsk</i> <i>² State Key Laboratory of Palaeobiology and Stratigraphy, Nanjing Institute of Geology and Palaeontology, Chinese Academy of Sciences</i> <i>³ Department of Zoology, Faculty of Biology and Environmental Protection, University of Silesia</i> Untold stories from Miocene Zhangpu amber
11:40-12:00	Aleksandra Bilka^{1,3}, Jacek Francikowski², Aleksandra Wyglenda^{1,3}, Adrian Masłowski^{1,3}, Natalia Kaszyca^{1,3}, Łukasz Depa¹ <i>¹ Department of Zoology, Faculty of Biology and Environmental Protection, University of Silesia</i> <i>² Department of Animal Physiology and Ecotoxicology, Faculty of Biology and Environmental Protection, University of Silesia</i> <i>³ Students' Scientific Association of Zoologists "Faunatycy", Faculty of Biology and Environmental Protection, University of Silesia</i> Thanatotic behaviour of aphids

12:00-12:20	COFFEE BREAK
12:20-12:40	Deregnacourt I.¹, Guidoti M.^{1,2}, Eric Guilbert¹ ¹ UMR7179, CNRS/MNHN, Museum national d'Histoire naturelle ² Universidade Federal do Rio Grande do Sul The origin and evolution of Tingidae (Heteroptera)
12:40-13:00	Mariusz Kanturski¹, Yerim Lee² ¹ Department of Zoology, Faculty of Biology and Environmental Protection, University of Silesia in Katowice ² Laboratory of Insect Biosystematics, Department of Agricultural Biotechnology, research Institute of Agriculture and Life Sciences, Seoul National University Morphology and taxonomy of the genus <i>Nippolachnus</i> Matsumura (Hemiptera: Aphididae: Lachninae)
13:00-14:30	LUNCH
14:30-15:00	Michael R. Wilson¹, Petr Kment², Attilio Carapezza³ – Plenary lecture ¹ Entomology Section, Department of Natural Sciences, National Museum of Wales ² Department of Entomology, National Museum Praha ³ University of Palermo Rauno Linnavouori: Entomologist and Explorer
15:00-16:00	II Session – Chair Franco Faraci
15:00-15:20	Yan-Hui Wang^{1,2}, Hao-Yang Wu^{1,2}, Dávid Rédei², Qiang Xie^{1,2}, Ping-Ping Chen³, Jakob Damgaard⁴, Pavel Štys⁵, Viktor Hartung^{6,7}, Stefan M. Kuechler⁸ ¹ State Key Laboratory of Biocontrol, Sun Yat-sen University, ² Institute of Entomology, Nankai University, ³ Netherlands Centre of Biodiversity, ⁴ Natural History Museum of Denmark, ⁵ Department of Zoology, Charles University in Prague, ⁶ Staatliches Museum für Naturkunde Karlsruhe, ⁷ Museum für Naturkunde — Leibniz-Institute for Research on Evolution and Biodiversity, ⁸ Department of Animal Ecology II, University of Bayreuth Disentangling the phylogenomics of Hemiptera-Heteroptera
15:20-15:40	Matthew E. Gruwell¹, Takumasa Kondo² ¹ Penn State Erie, Behrend Colloège ² Corporacion Colombiana de Investigacion Agropecuaria (CORPOICA) Comparative genomics of the bacterial endosymbiont " <i>Candidatus walczechella monophlebidarum</i> " an obligate endosymbiont of scale insects in the family Monophlebidae (Hemiptera: Coccoidea)

15:40-16:00	Andrey V. Stekolshchikov¹, N. V. Voronova², Sergey V. Buga² ¹ Zoological Institute, Russian Academy of Sciences ² Department of Zoology, Belarusian State University An analysis of existing views on the taxonomic system of the tribe Macrosiphini and some results of its molecular genetic verification
16:00-16:30	COFFEE BREAK
16:30-17:50	III Session – Chair Sergey Buga
16:30-16:50	Michael R. Wilson Entomology Section, Department of Natural Sciences, National Museum of Wales The bacterium <i>Xylella fastidiosa</i> has arrived in Europe: vectors and reactions
16:50-17:10	Alex Ramsay 10 Princess Street, Manchester, UK M15 4HA. Pentatomoidea in Greece
17:10-17:30	Martin Vašíček¹, Igor Malenovský¹, Stanislav Rada², Jan Mládek², Tomáš Kuras² ¹ Department of Botany and Zoology, Faculty of Science, Masaryk University ² Department of Ecology and Environmental Sciences, Faculty of Science, Palacký University Influence of hemiparasitic plants and different management practices on communities of Hemiptera in species-rich grasslands
17:30-17:50	Vladimír Hemala¹, Petr Kment², Igor Malenovský¹ ¹ Department of Botany and Zoology, Faculty of Science, Masaryk University ² Department of Entomology, National Museum Praha Comparative morphology of the metathoracic scent efferent system, pregenital abdominal ventrites and trichobothria in Pyrrhocoroidea (Heteroptera: Pentatomomorpha)
19:00	Dinner

TUESDAY, 26 June 2018

7:00-09:30	Breakfast
9:30-9:40	Technical information
9:40-10:10	Thierry Bourgoïn – Plenary lecture <i>ISYEB, UMR 7205 MNHN-CNRS-Sorbonne Université-EPHE, MNHN</i> Names, taxa and classifications
10:10-13:00	I Session – Chair Rimantas Rakauskas
10:10-10:30	Vladimir M. Gnezdilov <i>Zoological Institute, Russian Academy of Sciences</i> Revision of the genus <i>Thionia</i> Stål - key to development of the taxonomy of neotropical Issidae (Hemiptera: Fulgoroidea)
10:30-10:50	Viktor Hartung <i>Museum of Natural History – Leibniz Institute of Evolution and Biodiversity Science</i> Systematics of Peloridiidae (Hemiptera: Coleorrhyncha) – an integrative approach
10:50-11:30	COFFEE BREAK
11:30-11:50	Andrey. V. Stekolshchikov¹, Sergey. V. Buga² ¹ <i>Zoological Institute, Russian Academy of Sciences,</i> ² <i>Department of Zoology, Belarusian State University</i> Aphid fauna of arctic zone of Eurasia
11:50-12:10	Liliya Štarhová Serbina¹, Igor Malenovský¹, Lenka Petráková¹, Dalva L. Queiroz², Diana Percy^{3,4}, Daniel Burckhardt⁵ ¹ <i>Department of Botany and Zoology, Faculty of Science, Masaryk University</i> ² <i>Embrapa Florestas, Estrada da Ribeira</i> ³ <i>Department of Life Sciences, Natural History Museum</i> ⁴ <i>University of British Columbia, Faculty of Science, University Boulevard</i> ⁵ <i>Naturhistorisches Museum Basel</i> Taxonomy and phylogeny of the neotropical species of the plant-louse genus <i>Diclidophlebia</i> (Hemiptera: Psylloidea)

12:10-12:30	Jelena Šeat^{1,2}, Hardeep Kaur¹, Róbert Gallé¹, Attila Torma¹ ¹ <i>Department of Ecology, University of Szeged</i> ² <i>HabiProt</i> The role of road verges as secondary linear habitats for forest steppe Heteroptera
12:30-12:50	Víctor Osorio¹, Marta Goula² ¹ <i>Integrative Freshwater Ecology Group, Centre d'Estudis Avançats de Blanes (CEAB-CSIC)</i> ² <i>Department of Evolutionary Biology, Ecology and Environmental Sciences, Faculty of Biology, University of Barcelona</i> The alien sycamore seed bug, <i>Belonochilus numenius</i> , a nuisance in Barcelona city
13:00-14:30	LUNCH
14:30-15:50	II Session – Chair Vladimir Gnezdilov
14:30-14:50	Yan-Zhuo Wu¹, Dávid Rédei¹, Joseph Eger Jr², Yan-Hui Wang^{1,3,4}, Qiang Xie^{3,4} ¹ <i>Institute of Entomology, College of Life Sciences, Nankai University</i> ² <i>Dow AgroSciences</i> ³ <i>Department of Ecology and Evolution, College of Life Sciences, Sun Yat-sen University</i> ⁴ <i>State Key Laboratory of Biocontrol, Sun Yat-sen University</i> Molecular phylogenetics of Pentatomoidea, with emphasis on Scutelleridae
14:50-15:10	Paul Chatelain¹, Maxime Le Cesne¹, Adrian Plant², Adeline Soulier-Perkins¹ ¹ <i>Mécanismes adaptatifs et évolution, Muséum national d'Histoire naturelle</i> ² <i>Department of Biology, Faculty of Science, Mahasarakham University</i> Auchenorrhyncha on Mont Wilhelm and Doi Inthanon: their diversity patterns and the “optimal period” effect
15:10-15:30	Alla B. Vereschagina, Elena S. Gandrabur <i>Laboratory of Agricultural Entomology, All-Russian Research, Institute of Plant Protection</i> Various species of Cyperaceae and Juncaceae as host plants for <i>Rhopalosiphum padi</i> (Linnaeus) (Hemiptera: Aphididae)

15:30-15:50	Fariba Mozaffarian <i>Insect Taxonomy Research Department, Iranian Research Institute of Plant Protection</i> A preliminary study on the pest status of Auchenorrhyncha (Hemiptera) in Iran
15:50-16:20	COFFEE BREAK
16:20-17:40	III Session – Chair Marta Goula
16:20-16:40	Alicja Magdalena Brysz, Jacek Szwedo <i>Laboratory of Evolutionary Entomology and Museum of Amber Inclusions, Department of Invertebrate Zoology and Parasitology, Faculty of Biology, University of Gdańsk</i> Jewel, jewel Achilidae (Hemiptera: Fulgoromorpha)
16:40-17:00	Jurij Danilov¹, Jan Havelka², Jekaterina Havelka¹ Rimantas Rakauskas¹ ¹ <i>Institute of Biosciences, Vilnius University</i> ² <i>Biology Centre of the Academy of Sciences of the Czech Republic</i> Aphid species of the family Adelgidae (Hemiptera: Aphidoidea) in Lithuania: an overview
17:00-17:20	Selcuk Yurtsever <i>Biology Department, Science Faculty, Trakya University</i> Sex-ratio distortion of the meadow spittlebug <i>Philaenus spumarius</i> (L.) in some natural population of Turkey
17:20-17:40	Ling Feng¹, Daniela M. Takiya², Christopher H. Dietrich³, Yalin Zhang¹ ¹ <i>Key Laboratory of Plant Protection Resources and Pest Management, Ministry of Education, Entomological Museum, Northwest A&F University</i> ² <i>Laboratório de Entomologia, Departamento de Zoologia, Instituto de Biologia</i> ³ <i>Illinois Natural History Survey, Prairie Research Institute, University of Illinois</i> Phylogeny of the subfamily Cicadellinae (Hemiptera: Cicadellidae) based on morphological and molecular data
18:00	PHOTO OF ALL CONGRESS PARTICIPANTS
19:00	Ceremony dinner and dance group performance

WEDNESDAY, 27 June 2018

Plan of the Wednesday congress trips

1. **07:00-09:30 Breakfast**
2. **09:30** – a bus transfer from the Villa Verde Hotel to Podlesice village (first option) or Młyny village (second option). **First option:** 10.00 - 12.30 - a walk from Podlesice to Rzędkowice – 3.5 km (beech and hornbeam forests, xerothermic grasslands; a possibility of collecting material). **Second option:** 10.00-12.30 – a walk from Młyny to Zdów – 3.5 km (valley of the upper Białka river: beech and hornbeam forests, meadows, waterside vegetation; a possibility of collecting material).
3. A bus transfer to the ruins of the medieval watchtower Mirów – a walk along limestone crags to the medieval castle Bobolice (2 km).
4. **14:00-15:00** – Dinner in the Bobolice castle restaurant for all participants and visiting the Bobolice castle (optional).
5. **15:30** – A bus transfer from Bobolice to the Centre of Natural and Cultural Heritage of Kraków-Częstochowa Jura region in Podlesice.
6. **16:00** – A lecture and a movie on the values of Kraków-Częstochowa Jura region natural environment and Visiting the Nature Reserve „Góra Zborów” with Jaskinia Głęboka cave exploration.
7. **18:00** – A bus transfer to the Villa Verde Hotel.
8. **19:00** – Barbecue Dinner in the Villa Verde Hotel.

THURSDAY, 28 June 2018

7:00-10:00	Breakfast
10:00-12:50	I Session – Chair Petr Baňář
10:00-10:20	Marcin Jedyński <i>Pic Instruments</i> Pik-Instruments Company
10:20-10:40	Jacek Szwedo, Agata Pielowska <i>Laboratory of Evolutionary Entomology and Museum of Amber Inclusions, Department of Invertebrate Zoology and Parasitology</i> Databases and databasing of fossil Hemiptera
10:40-11:00	Łukasz Junkiert, Agnieszka Bugaj-Nawrocka, Karina Wieczorek <i>Department of Zoology, Faculty of Biology and Environmental Protection, University of Silesia</i> HEMIPTERON – digital database of entomological specimens of the Department of Zoology, University of Silesia in Katowice
11:00-11:30	COFFEE BREAK
11:30-11:50	Jacek Szwedo¹, Artur Taszakowski², Roland Dobosz³ ¹ <i>Department of Invertebrate Zoology and Parasitology, University of Gdańsk</i> ² <i>Department of Zoology, Faculty of Biology and Environmental Protection, University of Silesia</i> ³ <i>Upper Silesian Museum, Department of Natural History</i> The Hemiptera collection of Department of Natural History, Upper Silesian Museum in Bytom
11:50-12:10	Goran Prodanović¹, Dusanka Jerinic-Prodanović², Jasmina M. Jovanović³, Viktor Marković¹ ¹ <i>Military Geographical Institute Serbia</i> ² <i>University of Belgrade, Faculty of Agriculture</i> ³ <i>University of Belgrade – Faculty of Geography</i> The geographical information system of Jumping plant-lice (Hemiptera, Psylloidea) and their natural enemies in Serbia

12:10-12:30	Małgorzata Kalandyk-Kołodziejczyk <i>Department of Zoology, Faculty of Biology and Environmental Protection, University of Silesia</i> Morphological studies on nymphs of the Pseudococcidae (Hemiptera: Cocomorpha: Coccoidea)
12.30-12.50	Ersin Demirel¹, Hisamiddin Dinc² <i>Mustafa Kemal University Tayfur Sokmen Campus Science and Arts Faculty Department of Biology</i> Contributions to the knowledge of Cercopoidea (Hemiptera, Cicadomorpha) From Mt. Ziyaret (Hatay Province, Turkey)
13:00-14:00	Lunch
14:00-15:00	POSTER SESSION and best poster competition Karina Wieczorek, Piotr Wegierek, Ping-Ping Chen, Attilio Carapezza, Michael Webb -with time for a cup of coffee-
15:00-19:00	SCANNING ELECTRON MICROSCOPY WORKSHOP
19:00	Dinner (Best poster competition results before)
19:30-21:00	INDIVIDUAL SEM WORKSHOP

FRIDAY, 29 June 2018

7:00-09:00	Breakfast
9:00-9:15	Technical information
9:15-9:45	Jacek Szwedo – Plenary lecture <i>Laboratory of Evolutionary Entomology and Museum of Amber Inclusions, Department of Invertebrate Zoology and Parasitology</i> Burmese amber inclusions – witnesses of major biological revolution

9:45-12:15	I Session – Chair Alex Ramsay
9:45-10:05	Petr Baňar¹, Leonidas-Romanos Davranoglou² <i>¹ Department of Entomology, Moravian Museum</i> <i>² Department of Zoology, University of Oxford</i> Quantitative methods as a brilliant resource of seldom collected heteropterans
10:05-10:25	Tian Jiang¹, Bo Wang², Jacek Szwedo³ <i>¹ China University of Geosciences</i> <i>² Nanjing Institute of Geology and Palaeontology, Chinese Academy of Sciences</i> <i>³ Laboratory of Evolutionary Entomology and Museum of Amber Inclusions, Department of Invertebrate Zoology and Parasitology</i> Hidden secrets of Mimarachnidae planthoppers (Hemiptera: Fulgoromorpha)
10:25-10:45	Michael R. Wilson¹, Alan Stewart², Phoebe Williams¹ <i>¹ Entomology Section, Department of Natural Sciences, National Museum of Wales</i> <i>² School of Life Sciences, John Maynard Smith Building, University of Sussex</i> Colonisation by Hemiptera of newly established grassland after opencast coal mining at a south Wales site
10:45-11:15	COFFEE BREAK
11:15-11:35	Özhan Şenol¹, Gazi Görür¹, Hayal Akyıldırım Beğen² <i>¹ Ömer Halisdemir University, Science and Art Faculty, Department of Biotechnology</i> <i>² Artvin Çoruh University, Forestry Faculty, Botany Department</i> Contributions of the Anatolian diagonal effect on Turkish aphid diversity
11:35-11:55	Agnieszka Nowińska, Jolanta Brożek <i>Department of Zoology, Faculty of Biology and Environmental Protection, University of Silesia in Katowice</i> Morphology of the antennal sensilla of Nepoidea (Hemiptera: Nepomorpha)
11:55-12:15	Dariusz Świerczewski¹, Igor Malenovský², Adam Stroiński³ <i>¹ Department of Biology and Nature Conservation, Jan Długosz University,</i> <i>² Department of Botany and Zoology, Faculty of Science, Masaryk University,</i> <i>³ Museum and Institute of Zoology, Polish Academy of Sciences</i> The biodiversity of Flatidae fauna on Socotra Island
13:00-14:30	LUNCH

14:30-16:10	II Session – Chair Adeline Soulier-Perkins
14:30-14:50	Ping-Ping Chen^{1,2}, Nico Nieser¹, Petr Kment³ <i>¹ Naturalis Biodiversity Centre</i> <i>² NVWA-NRC, Ministry of Agriculture, Nature and Food Safety</i> <i>³ National Museum Praha</i> How much we know about the singing pygmy water boatmen (Heteroptera: Micronectidae)
14:50-15:10	Dmitry A. Dmitriev <i>Illinois Natural History Survey, University of Illinois at Urbana-Champaign</i> Etymology of generic names in Auchenorrhyncha (Hemiptera)
15:10-15:30	Igor Malenovský <i>Department of Botany and Zoology, Faculty of Science, Masaryk University</i> Cryptic diversity of cicadas (Auchenorrhyncha: Cicadidae) in the Czech Republic
15:30-15:50	Sheryl Yap¹, Ace Kevin S. Amarga², Elorde JR. S. Crispolon³ <i>¹ Institute of Weed Science, Entomology, and Plant Pathology, College of Agriculture and Food Science, University of the Philippines</i> <i>² Environmental Forestry Programme, College of Forestry and Natural Resources, University of the Philippines</i> <i>³ Department of Entomology, College of Agriculture, University of Southern Mindanao</i> Diversity of planthoppers (Hemiptera: Fulgoromorpha) in forest and agroforest ecosystems on selected sites in the Philippines
15:50-16:10	Xiudan Wang¹, Christopher H. Dietrich², Yalin Zhang¹, <i>¹ Key Laboratory of Plant Protection Resources and Pest Management of Ministry of Education, Entomological Museum, Northwest A&F University</i> <i>² Illinois Natural History Survey, Prairie Research Institute, University of Illinois</i> Systematic studies on leafhopper subfamily Coelidiinae (Hemiptera: Cicadellidae)
16:10-16:30	COFFEE BREAK
16:30	CLOSING CEREMONY
19:00	Dinner

LIST OF POSTERS

1	<p>Błaszczak Jakub¹, Świerczewski Dariusz¹, Stroiński Adam² ¹ Department of Biology and Nature Conservation, Jan Długosz University ² Museum and Institute of Zoology, Polish Academy of Sciences</p> <p>New records of planthoppers and leafhoppers from northern Poland (Hemiptera: Fulgoromorpha et Cicadomorpha)</p>
2	<p>Alicja Magdalena Brysz University of Gdańsk, Faculty of Biology, Department of Invertebrate Zoology and Parasitology, Laboratory of Evolutionary Entomology and Museum of Amber Inclusions</p> <p>Revision of the genus <i>Angustachilus</i> (Hemiptera: Fulgoromorpha: Achilidae) from the Eocene Baltic amber</p>
3	<p>Manon Bucher, Adeline Soulier- Perkins Mécánismes adaptatifs et évolution, MECADEV-UMR 7179 MNHN-CNRS, Muséum national d'Histoire naturelle</p> <p>Computerized key of Cercopidae species (Hemiptera, Cicadomorpha) present in Madagascar and its integration into the knowledge base COOL</p>
4	<p>Agnieszka Bugaj-Nawrocka¹, Natalia Sawka-Gądek², Dominik Chłond¹ ¹ Department of Zoology, Faculty of Biology and Environmental Protection, University of Silesia in Katowice ² Institute of Systematic and Evolution of Animals, Polish Academy of Science, Department of Molecular Biodiversity</p> <p>The phenomenon of hybridization on the example of selected species of the genus <i>Platymyeris</i> Laporte, 1833 (Heteroptera: Reduviidae: Reduviinae)</p>
5	<p>Dominik Chłond¹, Natalia Sawka-Gądek², Dagmara Żyła³ ¹ Department of Zoology, Faculty of Biology and Environmental Protection, University of Silesia in Katowice ² Institute of Systematic and Evolution of Animals, Polish Academy of Science, Department of Molecular Biodiversity ³ Upper Silesian Museum, Natural History Department</p> <p>Phylogeny and biogeography of the genus <i>Sirthenea</i> Spinola, 1837 (Heteroptera: Reduviidae: Peiratinae)</p>

6	<p>Dominik Chłond, Aleksander Herczek Department of Zoology, Faculty of Biology and Biodiversity, University of Silesia in Katowice</p> <p><i>Yuriella popovi</i> a new genus and species of Centrocnemidinae (Hemiptera: Heteroptera: Reduviidae) from Baltic Amber</p>
7	<p>Joanna Czaja Department of Biosystematics, University of Opole,</p> <p>Stridulatory structures in Scutelleridae (Heteroptera: Pentatomoidea)</p>
8	<p>Roma Durak¹, Annie Machordom², Iván Acevedo² ¹ Department of Experimental Zoology, University of Rzeszów ² Department of Biodiversity and Evolutionary Biology, Museo Nacional de Ciencias Naturales</p> <p>Genetic diversity of <i>Cinara tujafilina</i> (Hemiptera, Aphidoidea) based on microsatellite markers</p>
9	<p>Ling Feng¹, Daniela M. Takiya², Christopher H. Dietrich³, Yalin Zhang¹ ¹ Key Laboratory of Plant Protection Resources and Pest Management, Ministry of Education, Entomological Museum, Northwest A&F University ² Laboratório de Entomologia, Departamento de Zoologia, Instituto de Biologia ³ Illinois Natural History Survey, Prairie Research Institute, University of Illinois</p> <p>Phylogeny of the subfamily Cicadellinae (Hemiptera: Cicadellidae) based on morphological and molecular data</p>
10	<p>Barbara Franielczyk-Pietyra, Łukasz Depa, Piotr Wegierek Department of Zoology, Faculty of Biology and Biodiversity, University of Silesia in Katowice</p> <p>Comparative analysis of the forewings of <i>Aphis fabae</i> (Scopoli, 1763) and <i>Orthezia urticae</i> (Linnaeus, 1758) (Hemiptera, Sternorrhyncha)</p>
11	<p>Cezary Gębicki¹, Marcin Walczak² ¹ Department of Zoology, Faculty of Mathematic and Natural Sciences, Jan Długosz University ² Department of Zoology, Faculty of Biology and Biodiversity, University of Silesia in Katowice</p> <p>New and rare species of poorly known planthoppers of the Ugyopini tribe (Hemiptera: Fulgoromorpha: Delphacidae: Ugyopini) from New Caledonia.</p>

12	<p>Marta Goula¹, Víctor Osorio², Marcos Roca-Cusachs^{3,1} ¹Department of Evolutionary Biology, Ecology and Environmental Sciences and IRBIO, Faculty of Biology, University of Barcelona, ² Integrative Freshwater Ecology Group, Centre d'Estudis Avançats de Blanes (CEAB-CSIC), Blanes, Spain, ³ Laboratory of Systematic Entomology, Department of Applied Biology, College of Agriculture and Life Sciences, Chungnam</p> <p>Heteroptera alien species in the Iberian Peninsula: what's new since 2005</p>
13	<p>Alvin Helden Applied Ecology Group, Department of Biology, Anglia Ruskin University</p> <p>Auchenorrhyncha of Kibale National Park, Uganda: a first study</p>
14	<p>Federico Herrera Madrigal, Mónica González Navarro School of Exact and Natural Sciences, State Distance University, UNED</p> <p>Descriptions of the nymphal instars of <i>Cryphocricos latus</i> (Hemiptera: Heteroptera: Naucoridae) Usinger</p>
15	<p>Federico Herrera Madrigal¹, Monika Springer² ¹ School of Exact and Natural Sciences, State Distance University, UNED ² School of Biology, University of Costa Rica</p> <p>The genus <i>Pelocoris</i> Stål, 1876 (Hemiptera: Naucoridae) in Central America</p>
16	<p>Jana Hintenausová¹, Igor Malenovský¹, Ilija Gjonov², Albena Lapeva-Gjonova² ¹Department of Botany and Zoology, Faculty of Science, Masaryk University ²Department of Zoology and Anthropology, Sofia University</p> <p>Immature morphology and biology of European species of the jumping plant-louse genus <i>Eryngiofaga</i> (Sternorrhyncha: Psylloidea: Triozidae)</p>
17	<p>Min Huang, Xiushuang Wang, Yalin Zhuang College of Plant Protection, Northwest A&F University</p> <p>Biogeography studies on Typhlocybinae from China based on GIS (Hemiptera: Cicadellidae)</p>
18	<p>W. Huang¹, J. Sun^{1,2}, Yalin Zhang¹, ¹Key Laboratory of Plant Protection Resources and Pest Management, Ministry of Education, Entomological Museum, Northwest A&F University ²College of Forestry and Horticulture, Xinjiang Agricultural University</p> <p>Systematic study of the subfamily Ledrinae (Hemiptera: Cicadellidae)</p>

19	<p>Dužanka Jerinić-Prodanović¹, Kristina Vasić¹, Aleksandar Stojanović², Ljiljana Protić² ¹ University of Belgrade, Faculty of Agriculture, ² Natural History Museum of Serbia</p> <p>Natural enemies of <i>Acizzia jamatonica</i> (Kuwayama) (Hemiptera: Psylloidea) in Serbia</p>
20	<p>Dužanka Jerinić-Prodanović, Goran Rajn, Aleksa Obradović University of Belgrade, Faculty of Agriculture, Nemanjina 6, 11080 Zemun, Serbia</p> <p><i>Bactericera nigricornis</i> complex Foerster (Hemiptera: Psylloidea: Triozidae) in carrot crops in Serbia</p>
21	<p>Dužanka Jerinić-Prodanović¹, Aleksandar Stojanović², Aleksa Obradović¹ ¹ University of Belgrade, Faculty of Agriculture, ² Natural History Museum of Serbia</p> <p>Parasitoids of <i>Bactericera trigonica</i> (Hodkinson) (Hemiptera: Psylloidea: Triozidae)</p>
22	<p>Łukasz Junkiert, Marcin Walczak Department of Zoology, Faculty of Biology and Environmental Protection University of Silesia in Katowice</p> <p>New species of poorly known Madagascan genus <i>Exphora</i> Signoret, 1860 (Hemiptera, Fulgoromorpha, Tropiduchidae)</p>
23	<p>Małgorzata Kalandyk-Kołodziejczyk¹, Marcin Walczak¹, Krzysztof Musik² ¹ Department of Zoology, Faculty of Biology and Environmental Protection University of Silesia in Katowice, ² Nature Heritage Center Upper Silesia</p> <p>Scale insect species (Hemiptera: Coccoomorpha: Coccoidea) in anthropogenic habitats in Poland</p>
24	<p>Małgorzata Kalandyk-Kołodziejczyk¹, Anna Michalik², Jolanta Brożek¹ ¹ Department of Zoology, Faculty of Biology and Environmental Protection University of Silesia in Katowice ² Department of Developmental Biology and Morphology of Invertebrates, Institute of Zoology and Biomedical Sciences, Jagiellonian University</p> <p>Morphological studies on the antennal sensilla in adult females and immature instars of <i>Puto superbus</i> (Leonardi, 1907) and <i>Ceroputo pilosellae</i> Šulc, 1898 (Hemiptera: Coccoomorpha: Coccoidea)</p>

25	<p>Mariusz Kanturski¹, Yerim Lee² ¹ Department of Zoology, Faculty of Biology and Environmental Protection University of Silesia in Katowice ² Laboratory of Insect Biosystematics, Department of Agricultural Biotechnology, Research Institute of Agriculture and Life Sciences, Seoul National University</p> <p>Updating Lachninae – on the non-monophyly of Tuberculachnini (and a surprising position of <i>Sinolachnus</i>) (Hemiptera: Aphididae)</p>
26	<p>Mariusz Kanturski¹, Joanna Trela², Piotr Świątek³, Cezary Sempruch⁴, Karina Wieczorek¹ ¹ Department of Zoology, Faculty of Biology and Environmental Protection University of Silesia in Katowice, ² Institute of Plant Protection, National Research Institute, Sońnicowice Branch, ³ Department of Histology and Embryology of Animals, Faculty of Biology and Environmental Protection University of Silesia in Katowice, ⁴ Department of Biochemistry and Molecular Biology University of Natural Sciences and Humanities in Siedlce</p> <p>Morphology and sensilla of viviparous and sexual generations of the pea aphid <i>Acyrtosiphon pisum</i> (Harris) (Hemiptera: Aphididae)</p>
27	<p>Mariusz Kanturski¹, Pradyot Kumar Medda², Samiran Chakrabarti³ ¹ Department of Zoology, Faculty of Biology and Environmental Protection University of Silesia in Katowice ² Department of Zoology, RKM VC College ³ Post Graduate Department of Zoology, Vidyasagar College</p> <p>Conifer-feeding aphids (Insecta: Hemiptera: Aphididae) of Himalaya – a preliminary checklist</p>
28	<p>Mariusz Kanturski, Philip Ciaramella Department of Zoology, Faculty of Biology and Environmental Protection, University of Silesia in Katowice</p> <p>Morphology and sensilla of selected aphid species of the subfamily Thelaxinae (Hemiptera: Aphididae)</p>
29	<p>Natalia Kaszyca, Łukasz Depa, Mariusz Kanturski Department of Zoology, Faculty of Biology and Environmental Protection, University of Silesia in Katowice</p> <p>Cuticule structure of aphid cauda</p>
30	<p>Petr Kment Department of Entomology, National Museum Prague</p> <p>Updated review of the toad bug fauna of the Oriental Region (Hemiptera: Heteroptera: Gelastocoridae)</p>
31	<p>Előd Kondorosy Georgikon Faculty, University of Pannonia</p> <p>Current knowledge about Lethaeini (Heteroptera: Rhyparochromidae)</p>

32	<p>Joanna Krakowska, Mariusz Kanturski, Jowita Drohojowska Department of Zoology, Faculty of Biology and Biodiversity, University of Silesia in Katowice</p> <p>The construction of sensory receptors on the head in selected species of psyllid (Hemiptera: Sternorrhyncha: Psylloidea)</p>
33	<p>Alain Laupin-Vinatier, Joël Pothier, Thierry Bourgoin ISYEB, UMR 7205 MNHN-CNRS-Sorbonne Université-EPHE, MNHN, France</p> <p>Planthopper phylogeny using constrained alignments by molecular architecture</p>
34	<p>Shuanghu Lin, Min Huang, Yanghui Cao, Yalin Zhang Key Laboratory of Plant Protection Resources and Pest Management, National Ministry of Education, Entomological Museum, Northwest A&F University</p> <p>Taxonomy and phylogeny of the tribe Erythroneurini (Hemiptera: Cicadellidae: Typhlocybinae)</p>
35	<p>Anna Michalik¹, Katarzyna Michalik¹, Małgorzata Kalandyk-Kołodziejczyk², Teresa Szklarzewicz¹ ¹ Department of Developmental Biology and Morphology of Invertebrates, Institute of Zoology and Biomedical Research, Jagiellonian University ² Department of Zoology, Faculty of Biology and Environmental Protection, University of Silesia in Katowice</p> <p>Symbiotic microorganisms in mealybugs of the Phenacoccinae subfamily (Coccoomorpha, Pseudococcidae)</p>
36	<p>Anna Michalik¹, Dariusz Świerczewski², Adam Stroński³, Kamil Wojciechowski¹, Teresa Szklarzewicz¹ ¹ Department of Developmental Biology and Morphology of Invertebrates, Institute of Zoology and Biomedical Research, Jagiellonian University, ² Department of Zoology and Animal Ecology, Jan Długosz University, ³ Museum and Institute of Zoology, Polish Academy of Sciences</p> <p>Do the geographic isolation and founder effect have an influence on the symbiotic systems of insects?</p>
37	<p>Olivera Petrović-Obradović¹, L. Poljaković-Pajnik², Andja Radonjić¹, Ivana Jovičić¹, Ž. Tomanović³ ¹ University of Belgrade - Faculty of Agriculture, ² Institute of lowland forestry and environment, University of Novi Sad, ³ University of Belgrade - Faculty of Biology</p> <p>Alien and invasive aphid species (Hemiptera: Aphididae) found in Serbia</p>
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39	Jelena Šeat^{1,2}, Attila Torma¹ ¹ Department of Ecology, University of Szeged, ² HabiProt Seasonal changes of Heteroptera assemblages in Pannonian salt grasslands of Serbia
40	Jacek Szwedo <i>Laboratory of Evolutionary Entomology and Museum of Amber Inclusions, Department of Invertebrate Zoology and Parasitology, Faculty of Biology</i> Fulgoromorpha and Cicadomorpha from terminal Eocene of Isle of Wight, UK
41	Jacek Szwedo¹, Adam Stroiński² ¹ Laboratory of Evolutionary Entomology and Museum of Amber Inclusions, Department of Invertebrate Zoology and Parasitology, University of Gdańsk ² Museum and Institute of Zoology, Polish Academy of Sciences New data, new challenges – extant and extinct Tropiduchidae
42	Jiu Tang, Lin Shen, Yalin Zhang <i>Key Laboratory of Plant Protection Resources and Pest Management, Ministry of Education, Entomological Museum, Northwest A&F University</i> Systematic study on the subfamily Hylicinae (Hemiptera: Cicadellidae)
43	Artur Tazakowski, Agnieszka Nowińska, Jolanta Brożek <i>Department of Zoology, Faculty of Biology and Environmental Protection, University of Silesia in Katowice</i> Morphological study of the labial sensilla in Nabidae (Hemiptera: Heteroptera: Cimicomorpha) – preliminary results
44	Attila Torma¹, Jelena Šeat^{1,2}, Péter Császár¹ ¹ Department of Ecology, University of Szeged, ² HabiProt Effect of grazing and mowing on Heteroptera assemblages in Hungarian salt grasslands
45	Valeria Trivellone^{1,2}, Elisa Angelini², Christopher H. Dietrich¹, Dmitry A. Dmitriev¹ ¹ Illinois Natural History Survey, University of Illinois, ² C.R.E.A., Centro di Ricerca per la Viticoltura ed Enologia A relational database platform for documenting (ecological, physiological, and evolutionary) associations between hemipteran vectors, phytoplasmas and plants
46	Xiudan Wang¹, Christopher H. Dietrich², Yalin Zhang¹ ¹ Key Laboratory of Plant Protection Resources and Pest Management of Ministry of Education, Entomological Museum, Northwest A&F University, ² Illinois Natural History Survey, Prairie Research Institute, University of Illinois, 1816 S Oak St., Champaign, Illinois 61820, USA Systematic studies on leafhopper subfamily Coelidiinae (Hemiptera: Cicadellidae)

47	Cong Wei, Min Huang, Yalin Zhang <i>College of Plant Protection, Northwest A&F University</i> Ultrastructure of the distal segment of Malpighian tubules in Cicadomorpha
48	Karina Wieczorek¹, Roma Durak², Mariusz Kanturski¹, Cezary Sempruch³, Piotr Świątek⁴ ¹ University of Silesia in Katowice, Department of Zoology, ² University of Rzeszow, Department of Invertebrate Zoology, ³ University of Natural Sciences and Humanities in Siedlce, Department of Biochemistry and Molecular Biology, ⁴ University of Silesia in Katowice, Department of Histology and Embryology of Animals A comparative study of the male reproductive system of <i>Cinara (Cupressobium) cupressi cupressi</i> (Buckton, 1881) and <i>Cinara (Cupressobium) juniperi</i> (De Geer, 1773) (Hemiptera, Aphididae: Lachninae)
49	Karina Wieczorek <i>Department of Zoology, Faculty of Biology and Environmental Protection, University of Silesia in Katowice</i> Alien Aphids species on the Move
50	Qingquan Xue¹, Yang Wang¹, Liyuan Yang¹, Wu Dai¹, Yimin Du¹, C.H. Dietrich², Yalin Zhang¹ ¹ Key Laboratory of Plant Protection Resources and Pest Management, Ministry of Education, Entomological Museum, Northwest A&F University ² Illinois Natural History Survey, Prairie Research Institute, University of Illinois Phylogenetic analysis of the family Cicadellidae (Hemiptera: Auchenorrhyncha)
51	Dz. G. Zhorau, Sergey V. Buga <i>Department of Zoology, Belarusian State University</i> Coccoidea fauna of Belarus and occurrence of nucleotide sequences of the scale insects in the genetic databases
52	Joanna Zygała, Karina Wieczorek, Mariusz Kanturski, Dominik Chłond <i>Department of Zoology, Faculty of Biology and Environmental Protection, University of Silesia in Katowice</i> The morphology of stridulatory apparatus of selected species of the genus <i>Platymeris</i> Laporte, 1833 (Heteroptera: Reduviidae: Reduviinae)

BURMESE AMBER INCLUSIONS – WITNESSES OF MAJOR BIOLOGICAL REVOLUTION

Jacek Szwedo

Laboratory of Evolutionary Entomology and Museum of Amber Inclusions, Department of Invertebrate Zoology and Parasitology, Faculty of Biology, University of Gdańsk, 59, Wita Stwosza St., PL80-308 Gdańsk, Poland;

jacek.szwedo@biol.ug.edu.pl; ORCID: 0000-0002-2796-9538

The Cretaceous, the geologic period from circa 145 to 66 million years (Ma) ago is a complex time period in Earth's history. Generally speaking, the climate of the Cretaceous was much warmer than at present, perhaps the warmest on a worldwide basis than at any other time during the Phanerozoic. However, going into details, the Cretaceous saw episodes of abrupt greenhouse warming and cooling, repeated platform drownings, major excursions in the carbon isotope record, episodic oceanic anoxic events, and increased volcanic activity forming large igneous provinces. The Cretaceous was a period of changes in vegetation, during which the gymnosperm- and fern-dominated flora of the Mesophytic were replaced by angiosperm-dominated communities of the Cainophytic. The Burmese amber was formed from the resin of gymnosperm trees (Cupressaceae, or Araucariaceae) in the palaeoequatorial zone of West Burma block. The amber forest covered an arc of volcanic islands adjacent to continental margin, various types of coastal and inland areas, probably also with some hills or mountains. These physical conditions resulted in variety of habitats, and thus in rich fauna, with nearly 1000 species named to date. All major lineages of the Hemiptera present in the Cretaceous were found in Burmese amber. Sternorrhyncha (except scale insects) seem not to be very common; Fulgoromorpha inclusions are numerous and enormously diversified, with extinct and extant families; Cicadomorpha with diverse Clypeata groups (Hylcellidae, Tettigarctidae, Sinoalidae, Cicadellidae), are not so common, so far any non-clypeatan inclusions were recorded; Coleorrhyncha: Progonocimicidae are present, but not numerous; the second most variable and rich group among inclusions is Heteroptera with 15 families.