

I N M E M O R I A M

## In memoriam of Professor Pavel Štys (1933–2018): biography, memories, bibliography and list of described taxa

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**Abstract.** Professor Pavel Štys (1933–2018) was an eminent specialist in morphology, taxonomy, systematics, biology and behaviour of Heteroptera, and the Commissioner of the International Commission on Zoological Nomenclature. All his career was connected with the Department of Zoology, Faculty of Science, Charles University in Prague, Czech Republic, where he educated several generations of Czech biologists and teachers. Here we provide his short biography, personal memories of his colleagues, bibliography currently comprising 386 papers, and annotated list of the taxa he described, which includes two families (Stemmocryptidae and Medocostidae), 11 subfamilies, 4 tribes, 54 genus-group and 129 species-group names, all of them in Heteroptera, except one species and one subspecies of Syrphidae (Diptera). Within the list the grammatical gender of the genera *Chauliops* Scott, 1874 and *Neochauliops* Štys, 1963 is corrected to masculine in accordance with ICZN (1999: Article 30.1.4.3) affecting the gender agreement in the following species: *Chauliops conicus* Gao & Bu, 2009, *Ch. lobatulus* Breddin, 1907, *Ch. petiolatus* (Germar, 1837), *Ch. quaternarius* Gao & Bu, 2009, and *Neochauliops laciniatus* (Bergroth, 1916).

**Key words.** Heteroptera, Diptera, Syrphidae, Pavel Štys, biography, bibliography, list of described taxa

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### Biography

Pavel Štys was born in Prague on 8 December 1933. From his early childhood Pavel was extremely interested in study of various natural phenomena; he started to collect insects and tried to mount and preserve them from the age of four. These activities were intensively supported by Pavel's loving parents. Pavel's father, Jaroslav Štys (1897–1963), who was manually skilled, learned several crafts and

painted well, worked as a technical clerk in his brother's company. Pavel's mother, Ludmila Štysová (1896–1976) came from a farming family in South Bohemia and was a householder. Pavel's younger sister Hana remembers that during his secondary school studies Pavel kept white laboratory mice and praying mantises in vivaria. Pavel occupied one kitchen cupboard with his collection, and kitchen of their small flat was also his first entomological laboratory



– when mounting collected specimens all remaining family members had to leave the kitchen so they did not disturb his work by shaking the table.

Pavel's uncle, Josef Štys (1889–1950), was a junior co-owner of the factory Srb & Štys producing optical equipment including microscopes and binoculars. After the occupation of Bohemia and Moravia by German Nazis on 14 March 1939, the factory was confiscated for German military industry. After the liberation of Czechoslovakia on 8 May 1945, the factory was confiscated again by the Decree of the President of the Czechoslovak Republic (ANONYMUS 2019). Finally, on 25 February, 1948, the Communist Party of Czechoslovakia made a coup d'état which replaced democracy and liberal economy with the dictatorship of the proletariat and planned socialist economy, an era in which people of bourgeois origin were discriminated against. As Pavel never sympathized with the new regime and his conviction was strongly anticommunist, the political situation conspicuously complicated his career until 1989.

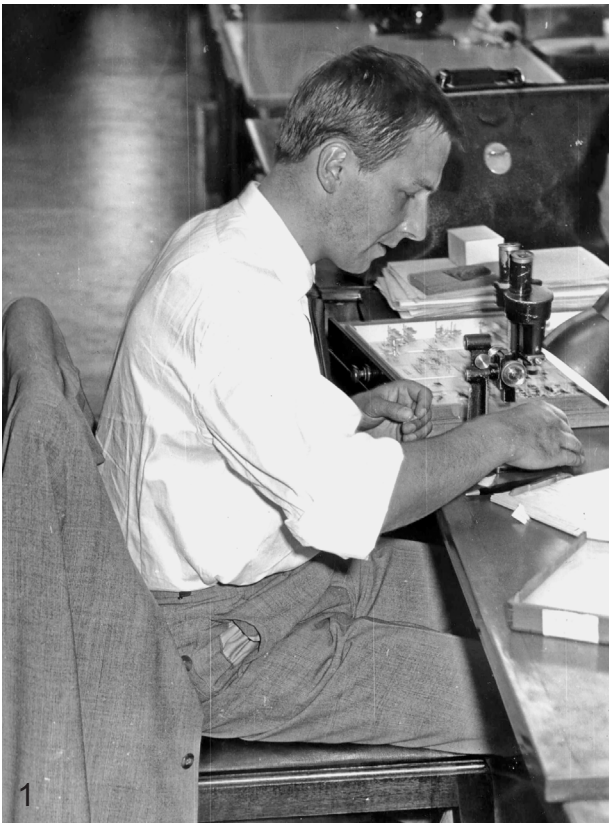
After secondary school studies at Vančurovo Reálné Gymnasium (currently Gynmnázium Na Zlatance Grammar School) he entered the Faculty of Science (formerly the Biological Faculty) of Charles University in Prague, an institution he remained devoted to until his last days. He graduated in 1957 with majors in Special Zoology – Entomology, in parallel with Biology and Chemistry for teachers. He started to teach already during his studies and became a staff member of the Department of Zoology (formerly Department of Systematic Zoology) after his graduation. He obtained a CSc. degree (candidatus scientiarum, equivalent of Ph.D.) from the Institute of Entomology of The Czechoslovak Academy of Sciences in Prague in 1966 (the topic of his dissertation was 'Morphology, higher classification and phylogeny of trichophorous Heteroptera'), and his RNDr. doctorate (= rerum naturalium doctor) from the Faculty of Science of Charles University in 1967. The positions Pavel Štys held at the Department of Zoology were as follows: Assistant (1957–1961), Assistant Professor (1961–1987), Research Scientist (1987–1989), and Senior Research Scientist (1989–1991). Despite being one of the most respected scientists at the faculty, his habilitation was possible only after the Velvet Revolution and return of democracy after 17 November 1989. He habilitated in 1991 with the topic 'Higher classification of the insect order Heteroptera', and held the position of an Associate Professor of Entomology in 1991–1993. He became full Professor of Entomology in 1993. From 1991 to 1995 he was Head of Entomology Section of the Department of Zoology and from 1995 to 1998 Head of the Department of Zoology at Faculty of Science. Beside these, in 1990s he had a number of other positions both at Charles University and the Czech Academy of Sciences. Pavel became Professor Emeritus from the academic year 1999/2000 when he retired but he remained at the Department of Zoology as a teacher and scientist until his death.

Pavel was an active teacher of several generations of Czech biologists, a gifted speaker with a very broad and deep knowledge of zoology in general. His most important

courses were Principles and Methods of Systematic Zoology, General Entomology (he participated in these two until his death), Evolutionary Biology, Systematic Entomology (part Hemimetabola), but also Practical Classes in Invertebrate Zoology; for decades he participated in Field Zoology Courses for the bachelor's programme and in specialized Field Entomology Courses for students of master's degree in Entomology. From 1960 Pavel was supervisor of one to three bachelor's or master's degree theses in Entomology every year, either with scientific or pedagogical focus. Among his students were many forthcoming professional entomologists and university teachers, among others Miroslav Papáček, Jitka Vilímová, and Jan Zrzavý. Although he was not allowed to be formal supervisor of doctoral students until 1988, he ideologically led two of them, M. Papáček and J. Vilímová; he became an official supervisor of doctoral students in 1989.

Pavel held the post of Visiting Assistant Professor at the University of Khartoum in Sudan in 1965–1968. In periods of more relaxed political climate he was on many long-term stays in foreign countries, e.g. at the Department of Entomology, Agricultural University, Wageningen, the Netherlands, visiting René H. Cobben (1985), Department of Entomology, American Museum of Natural History, New York, USA, working with Randall T. Schuh (1990), Department of Earth Sciences, Carleton University, Ottawa, Canada, with Jarmila Kukalová-Peck (1990), and at the Australian Museum, Sydney, with Gerasimos Cassis (1993–1994). Pavel also made short visits to many collections of important natural history museums, in latter years in London, Paris, Washington, Stockholm, Helsinki, and Lund, some of them several times. He actively presented results of his research at numerous national and international congresses and meetings in former Czechoslovakia or abroad, from 1990s he was a frequent participant of the Quadrennial Meetings of the International Heteropterists' Society, European Hemiptera Congresses, International Congresses of Entomology, Congresses of the International Society for Behavioral Ecology, as well as the national Zoological Days conference (for Abstracts see Bibliography).

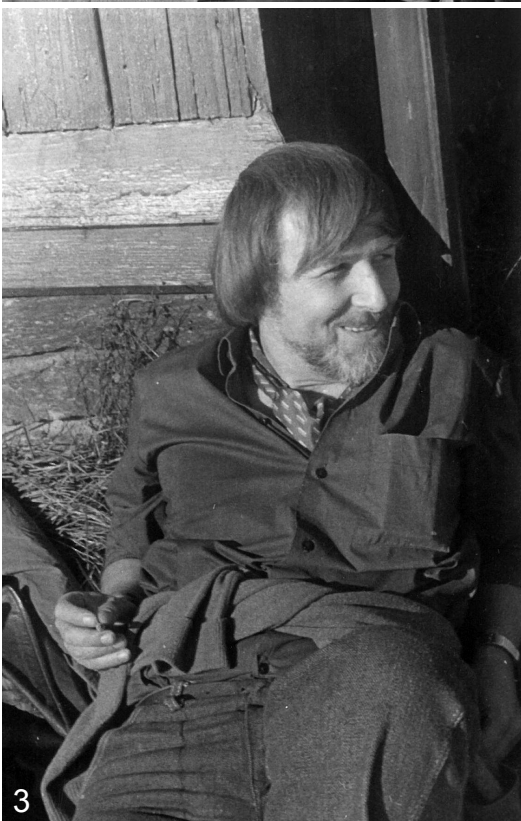
Pavel was a member of many Czech and international committees and scientific societies, e.g. the Czech Entomological Society, Czech Zoological Society, American Entomological Society, and Society of Systematic Zoology. Pavel's life-long interest in zoological nomenclature was crowned by becoming a Commissioner of the International Commission on Zoological Nomenclature (1989–2015). In this position he was involved in writing of the Fourth Edition of *International Code of Zoological Nomenclature* (ICZN 1999). Together with Václav Houša they translated the Third and Fourth Edition of the Code to Czech (HOUŠA & ŠTYS 1989a, 2003a). Pavel was also a member of editorial boards of many scientific journals in the Czech Republic and abroad. Most importantly, from 1962 to his sudden death he was active as an editor of the *European Journal of Entomology* (formerly *Acta Entomologica Bohemoslovaca*) and contributed substantially to the outstanding quality of the journal.



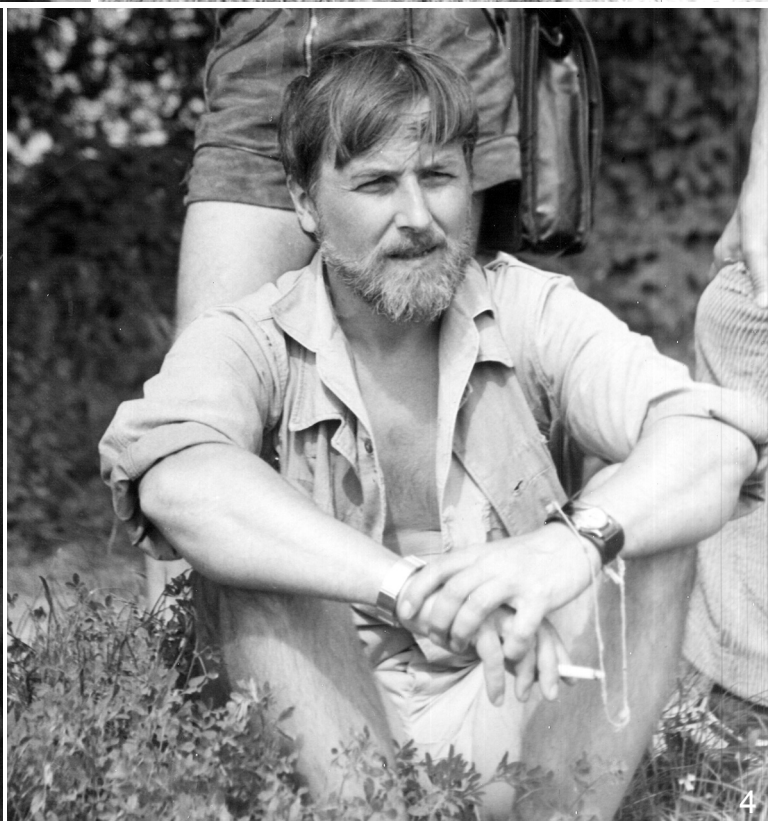
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Figs 1–4. Young Pavel Štys in 1950s–1970s. 1 – Pavel as a university student. 2 – Pavel collecting insects during a field trip. 3 – Pavel at Šerlich in Orlické hory Mts. in 1975. 4 – Pavel on the field excursion with the students of the Charles University in 1970's. Photos 1–2 from archive of H. Šedová; photo 3 by V. Geislerová; photo 4 and the portrait on p. 351 from the archive of the Department of Zoology, Faculty of Science, Charles University.



Fig. 5. Pavel Štys in his office at the Charles University in Prague, consulting Heteroptera systematics with Dávid Rédei in 2006. Photo by P. Kment.

Pavel's first research subjects were hoverflies (Diptera: Syrphidae) on which he published several papers in 1950s and early 1960s. He soon began to study true bugs (Heteroptera) and became an internationally recognized authority on this group which he continued to research until his death. He studied various aspect of heteropterans, first of all the alpha and beta taxonomy of phylogenetically important but usually understudied groups, for example Enicocephalomorpha, Dipsocoromorpha, Helotrephidae (with M. Papáček), Plokiophilidae, Colobathristidae, Malcidae, Hyocephalidae, Thaumastellidae, Thyreocoridae, and Plataspidae (the latter two with J. Vilímová). His papers often concentrated on exploring and illustrating morphological diversity and its phylogenetic interpretation, but he also integrated data on embryology, ontogeny, bionomics, ecology, zoogeography, and palaeontology. Though he kept some doubts about the numerical methods in phylogeny, Pavel always employed Hennigian phylogenetic ideas in his work, thus preparing solid background for the later boom of cladistics and molecular phylogeny.

First of all, Pavel and his eminent Russian colleague Izyaslav M. Kerzhner (ŠTYS & KERZHNER 1975) proposed the first widely accepted higher-level phylogenetic classification of Heteroptera, recognizing seven infraorders; this classification is still valid and so far has survived all the testing by methods of molecular phylogenetics. Pavel described an unusually high number of family-group taxa, including two families (Medocostidae and Stemmocryptidae), 11 subfamilies and 4 tribes. All these taxa remain valid, only Monteithostolinae were later downgraded to a tribe by Pavel himself. He also provided arguments for elevation of several other groups to the family rank, e.g. Aenictopecheidae, Thaumastellidae, Lasiochilidae, or Lyctocoridae. He reclassified two basal infraorders of heteropterans, Enicocephalomorpha and Dipsocoromorpha, described a number of their genera and species, and summarized the available bionomical and zoogeographical

knowledge for these groups. Together with R. T. Schuh he published the first cladistic analysis of the infraorder Cimicomorpha – a milestone in Cimicomorpha classification, and with Christiane Weirauch a molecular phylogenetic analysis of Dipsocoromorpha.

In 1990s, administrative duties consumed Pavel's time and often left him exhausted, which caused a considerable drop in the number of his papers published in this decade, especially concerning the systematics of Heteroptera. However, in this period he published, mostly with Jan Zrzavý, several synthetic studies on the phylogeny of primarily apterous hexapods, phylogeny of Hexapoda based on the structure and development of ovaries, on the phylogeny and classification of the extant representatives of Arthropoda, and on the hypothesis about the origin of crustacean limb and on the evolution of metamerism in Arthropoda. In one of these papers, ZRZAVÝ & ŠTYS (1997: 356) introduced the name Pancrustacea for a clade including Crustacea and Hexapoda, currently widely accepted.

After his official retirement Pavel was free from administrative duties, and concentrated intensively on his research. Besides his favourite morphology and systematics of Heteroptera, in the last two decades Pavel worked with his wife Alice Exnerová on the complex topic of multimodal antipredatory defence of Heteroptera. These studies included not only the cryptic and/or warning colouration, warning stridulation, and repugnatorial scent gland secretion of the true bugs and their functions, but also the reactions of the predators (mostly passeriform birds, but later also lizards or spiders) towards aposematic prey and their learning, generalization and individual attitudes, both from the ethological and phylogenetic point of view.

Pavel's impressive bibliography comprises now 386 papers (including 198 research papers, 49 short notes, 73 conference abstracts, 37 textbooks, didactic works and their chapters, 19 popular papers, 9 biographies), and 189 book reviews. Among the books he co-authored there



Fig. 6. Pavel Štys and Yuri Popov in Rozhen Monastery at Melnik during the field trip of the VI. European Hemiptera Congress in Blagoevgrad, Bulgaria on 27<sup>th</sup> June 2012. Photo by P. Baňaf.

are several important textbooks, compendia and encyclopaedias, such as the Czech ‘*Compendium of Biology*’ and ‘*Phylogeny, Systematics, and Biology of Organisms*’ we and our generation of students often used during the preparation for our secondary school final exams, or the English books ‘*The Insects of Australia*’, ‘*The Torre-Bueno Glossary of Entomology*’ or ‘*True Bugs of the World*’ which are still important sources of information on morphology and biology of Heteroptera or insects in general. Anyway, Pavel left also several unfinished manuscripts and lots of pre-manuscript notes on his own or borrowed material (including descriptions of several new family-group taxa), some of which we hope will be finished in the near future.

During his long career Pavel took part in many entomological expeditions and collecting trips. Besides the former Czechoslovakia, he collected intensively in Sudan and the neighbouring countries during his stay at the University of Khartoum, but also in Libya, former Soviet Central Asia, Siberia, Far East of Russia, USA, Australia, and many countries of Europe, especially in the Mediterranean. As a result, Pavel built a large collection containing dozens

of thousands of mounted or unmounted dry heteropterans, as well as ethanol preserved specimens. He also accumulated a nice collection of hoverflies, mainly from former Czechoslovakia, containing, according to his own words, about 90% of Czechoslovak fauna. His collection is now deposited in the Moravian Museum in Brno.

On Monday 20 August 2018, Pavel started his work in his and Alice’s office at Charles University as so many times before. Regrettably, on Wednesday Pavel seriously injured his leg which required urgent surgery. Sadly, on Friday 24 August 2018, Pavel passed away suddenly and peacefully in hospital during the operation.

Pavel’s achievements in entomology and Heteroptera research were widely recognized already during his life. He was elected a Honorary Member of the Czech Entomological Society in 2008 and received Carl Stål Medal of the International Heteropterist’s Society in 2014. He was also celebrated by three festschrifts published in *Acta Societatis Zoologicae Bohemicae* (63/1999) and *Acta Entomologica Musei Nationalis Pragae* (48(2)/2008 and 59(2)/2019), and his colleagues named six genera and 52 species after Pavel.

With Pavel’s death his family lost a beloved member, Charles University lost one of the most charismatic teachers, true bugs one of their most eminent specialists of all times, and we all lost a colleague, mentor and friend we were always used to ask when our own knowledge failed. Pavel, we will miss you ...

For previous biographies of Pavel Štys see VILÍMOVÁ (1995), OKÁLI et al. (1996), PAPÁČEK & VILÍMOVÁ (1999), KMENT (2008), PAPÁČEK et al. (2008) a SKUHRAVÝ (2008).

## Memories of Pavel Štys

### From a student of Professor Štys

I first met Pavel as a student of entomology in the early 1960s and a few years later also as his younger colleague at the Faculty. His lectures were very popular and attractive among all students and attended also by non-specialists. At that time I helped him as an assistant in the practical classes accompanying his courses. From the sixties until recently he held the course ‘General Entomology’, in the last decade together with Dr. J. Šobotník. From 1968 until recently he also held the course ‘Principles and Methods of Systematic Zoology’, now ‘Theoretical Fundamentals of Phylogenetics and Taxonomy of Animals’ together with his colleagues Dr. D. Král and Dr. V. Vohralík. His favourite course was ‘Classification and Phylogeny of Insects (part Hemimetabola)’ since the 1960s until 1990.

He was an essential participant of the field courses and excursions with students to the various parts of the country, especially to Lednice in South Moravia which was his favourite destination in our country. This was the place I met him personally for the first time. He knew perfectly each organism we met or found at our excursions and he usually accompanied each insect species with some crazy story or joke.

We became friends very soon and he passed his passion for insects on to me. As a member of the International

Commission on Zoological Nomenclature he had deep knowledge of all problems and obstacles of the nomenclature and he selflessly helped his colleagues to solve some very complicated cases concerning the nomenclature. I dare say he loved the complicated nomenclatoric cases and sometimes we spent hours solving some nomenclatoric “puzzle”.

He accepted very quickly all modern methods in taxonomy and morphology and he applied them immediately to his courses. He also pressed his students to study new, original literature and he was uncompromising from this point of view. Pavel educated tens and tens of entomology students as their thesis supervisor and many post-docs as their mentor.

For decades he was one of the leading personalities (with Karel Hůrka) of the Department of Zoology at Charles University and thanks to these two men the Czech entomology reached the world level. He also had an incredible web of world-wide contacts among the top entomologists and he used it for the benefit of his students; of course, he insisted that his students had to correspond actively with the specialists, no matter where in the world they were.

And one crazy story at the end. Pavel Štys was the descendant of the second owner of the famous factory “Srb & Štys”. This company produced famous optical devices including highest quality microscopes (the company was nationalised = stolen in 1945, of course). In 1970 we scheduled cleaning of the microscopes at the whole department. When the specialist came to Pavel’s office we heard a terrible cry from his room: the specialist was the grandson of the first owner of the former company “Srb & Štys”, Mr. Srb. This meeting resulted into an unplanned, rather wild party.

Svatopluk Bílý

### **Pavel Štys and the Muséum national d’Histoire naturelle, Paris**

Between the years 2000 and 2018, Pavel Štys came regularly to Paris visiting the heteropteran collections in Muséum national d’Histoire naturelle (MNHN). In the beginning, he was recently retired because I remember that he was rebelling against the conditions of the retired people; in particular, he was outraged by the fact that a recognized scientist becomes a nobody overnight; I heard him grumbling about it with humour on multiple occasions.

Pavel visited us a dozen times, throughout the SYNTHESIS program or as a scientist invited by MNHN or even on his own grants. The first time, he arrived alone and he said laughing – as if it was a joke – that he had a fiancée. A few days later he went to the bus station to pick up this mysterious person. It was Alice! Afterwards, they came together every time and often worked jointly. In the beginning, both were interested in the aposematic heteropterans from ethological and phylogenetic point of view, and thus examined and studied thousands of specimens of red-and-black species. Pavel loved very much browsing and collecting in the parts of the collection where hundreds of boxes of unidentified specimens from all biogeographic regions are gathered. He went “hunting”, commenting with enthusiasm on his discoveries, and then identified and arranged them.



Fig. 7. Pavel Štys and his wife Alice Exnerová during the VI. European Hemiptera Congress in Blagoevgrad, Bulgaria in June 2012. Photo: F. Faraci.

He was of course an eclectic but particularly interested in the material from Madagascar and Africa. Pavel, jointly with Alice, did another important work in our collection; they restored the general collection of Alydidae which was neglected for more than 100 years. Now we have a nice and useful alydid collection, identified to the genus level and for some groups to the species level.

During their last visits, Pavel and Alice lived in a small apartment near the Museum and could come on foot. Both enjoyed a lot the Jardin des Plantes, Paris and its museums, painting exhibitions, art galleries. During their stays, they never failed to visit and revisit the wonderful Musée des Arts Premiers; they were indeed amazed and passionate about art and culture of indigenous civilizations of Africa, America, Asia and Oceania, and all the marvels and treasures in the museum’s permanent collection. Pavel was curious about everything, including politics and sociology, and during the weekends walked kilometers in the streets of Paris despite his aching knees. One of the last memories I have of him was during a day trip to the Fontainebleau Forest, accompanied by Alice and Armand Matocq. It was autumn, and I remember Pavel’s delight, the beautiful nature, the short walk, the lunch in a secluded restaurant in the wood, the visit of the splendid chateau.

As everyone knows, Pavel Štys was a great scientist, reputed and recognized worldwide; he was also a lovely man, so kind, so simple, a good teacher, generous and thoughtful; in addition, he was funny, mischievous and very endearing. I and my colleagues in MNHN – not only the heteropterists (E. Guilbert, A. Matocq, and P. Magnien), but also the whole Hemiptera team and even some coleopterists – were an appreciative audience. All of us really liked Pavel Štys and we are going to miss his visits.

Dominique Pluot-Sigwalt

### Memories of Pavel

It is always sad when someone of Pavel's scientific stature passes away – his knowledge and insights were irreplaceable. In addition, he was also a lot of fun to be with as a person.

I remember when he visited the United States while I was still a post-doc at the Smithsonian Institution in Washington, DC. My father flew in from Denver and we took Pavel around to various places in the DC area, including out to the Prince William Forest Park where he could make some collections in what is an otherwise heavily urbanized area. On the way back around the beltway that afternoon we got to the Bethesda exit, and I asked how he would pronounce that name. He noted that there was no “th” sound in Czech, so it would either have to be “Betkhezda” or “Bet Hezda”. We tried to coach him a few times, but he could not get the “th” worked in the way we would do it. We all laughed about this. But now every time I go past Bethesda the alternative pronunciations come into my mind – I will never be able to say that name quite the same way again.

About a month later, after he had been to Washington, New York City, and College Station, Texas for visits with other colleagues, we had him fly out to Denver to see the West. Up to this point his experience with America had been big cities or rather densely populated rural areas, and Denver was not much different in that regard. But then we took him on a 5-day camping trip to the Four Corners

region, and he finally got a taste of the huge emptiness that is the western United States. He kept comparing it to his experience with Central Asia, which made me want to see Central Asia. One morning we crossed out of Colorado and into Utah, driving through the Navajo Indian reservation. Hours went by with just a few small dwellings or isolated oil wells, interspersed with vast stretches of orange sandstone desert. Finally, staring out the window, he noted that “There are not so many people in this...Utah”. It was a classic comment that went down in personal history, re-told on various occasions. I think he very much enjoyed the mountain and desert country, considering it “very romantic,” and he also got many good comparative collections there.

So I have great memories of my times with Pavel, and am sad that there will not be a chance to have more. But he leaves an excellent scientific legacy that will continue to inform the work of myself and others, so in some ways he will still be with us for a long time.

Dan A. Polhemus

### Pavel Štys, morphology, and phylogenetics

My friendship with Pavel dates from 1990 when he came to the American Museum of Natural History (AMNH) to conduct a four-month postdoctoral fellowship. The idea for such a visit was originally envisioned by Pedro Wygodzinsky, who – unfortunately – died before the arrangements for Pavel's stay in New York were completed. Nonetheless, the general idea was that Pavel would apply his expertise in the study of Dipsocoromorpha and Enicocephalomorpha to the extensive collections of the AMNH.

Upon his arrival in NYC, Pavel and I discussed how he might proceed. In addition to conducting his primarily SEM-based observations on dipsocoromorphs and enicocephalomorphs, he asked if there was a particular project on which we might collaborate. I told him that I had done some work on understanding relationships within the Cimicomorpha, but that my efforts would greatly benefit from his knowledge of the relevant literature and details of morphology in the group.

Our collaborative work on the Cimicomorpha resulted in a paper (SCHUH & ŠTYS 1991) which represented the first objective assessment of relationships in the group through the application of computer-implemented phylogenetic methods. It drew inspiration from the 1981 work of I. M. Kerzhner on Nabidae and his proposed scheme for cimicomorph relationships. Pavel had long been interested in phylogenetic relationships within the true bugs. He also could read Russian and French fluently, two languages crucial to interpreting published information on character data in the Cimicomorpha.

Pavel's generosity with his encyclopedic knowledge and his willingness to collaborate resulted in what I view as the best possible outcome. We were in broad agreement over how to present the results of our study while at the same time maximizing the application of our specialized knowledge, he in morphology, me in computerized phylogenetic methods. It was my honor to have worked



Fig. 8. Mallik Malipatil, Pavel Štys and Randall T. Schuh during a coffee break, 4th Quadrennial Meeting of the International Heteropterist's Society, Nankai University, Tianjin, 2010. Photo: F. Faraci.

with Pavel and I will always be grateful for the unselfish nature of his contributions. His knowledge of heteropteran morphology was nonpareil.

Randall T. Schuh

### Bibliography

The bibliography of Pavel Štys comprises now 386 papers (including 198 research papers, 49 short notes, 73 conference abstracts, 37 textbooks, didactic works and their chapters, 19 popular papers, 9 biographies), and 189 book reviews. The bibliography is listed according to years, and within each year the papers are listed alphabetically. In case of multiple papers with the same authorship within one year they are identified by an index letter (a to h). For the items published without a proper title, a provisional title is given in “quotation marks”. Translations of the Czech and Slovak titles are given in [square brackets]. In case of some journals, the official Czech titles are accompanied with their Latin subtitles in square brackets.

For the taxonomically relevant papers we have verified the exact day of publication of the particular journal and book volume based on the information printed in the volumes usually on the cover or in an index. These data are provided at the end of each reference in square brackets. In some instances, especially the *Acta Entomologica Musei Nationalis Pragae*, the publication dates were excerpted from the paper of ŠTYS (1978e) or previous bibliographies (VILÍMOVÁ 1995), which were prepared based on P. Štys' own card index. If only a month or year of publication but no exact date is given, the Article 21.3 of the ICZN (1999) applies: the last day of the particular month or year is the date of publication.

#### *Research papers, abstracts, textbooks, didactic and popular papers, personalia*

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### Book reviews

Besides the number of papers listed above, Pavel Štys is also author of 189 book reviews, introducing and commenting critically on number of books, often hard to access on one or the other side of the Iron Curtain. These reviewed books deal not only with Heteroptera, but also cover various topics of systematic and general entomology and zoology, evolutionary biology, ecology, population biology, ethology, biogeography, palaeontology, biostatistics, and biophilosophy. For lists of the book reviews see VILÍMOVÁ (1995), PAPÁČEK & VILÍMOVÁ (1999), and PAPÁČEK et al. (2008). Here we list only the few items previously cited with mistakes or missing in the published lists.

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### List of described taxa

Here we provide an annotated list of all the taxa described by Pavel Štys, including 17 new family-group names (all valid), 54 genus-group names (53 of them valid), and 129 species-group names, 127 of them in Heteroptera and 2 in Diptera: Syrphidae (122 of them valid), and one unavailable infrasubspecific name. The list is divided systematically according to the infraorders and families, families being listed alphabetically within each infraorder. Names of the genus- and species-group taxa are listed alphabetically within each family (subfamilies and tribes being omitted), always in their original combination and original spelling. Each taxon is accompanied by a bibliographic reference to the appropriate original paper (see Bibliography above) and page of the original description. The family- and genus-group taxa are further provided with citation of their type genus or species, genus-group taxa with their gender, species-group taxa with information on status of their name-bearing type, type locality, as well as the depository of the type. If necessary, the transfer of the type between collections is indicated by an arrow.

When reporting the type locality, the n-dash (–) is used to indicate that the specimen was collected between two places (e.g. ‘Kota Kinabalu–Tambunan road’ means a road from Kota Kinabalu to Tambunan).

When appropriate, all the changes concerning status of the name or taxon (i.e. synonymy, changes of rank and generic or subgeneric placement) are listed as Current status at the end of the entry, accompanied by the reference proposing the change. References to other authors than Štys are listed in the reference section as usual. In case of need, existing nomenclatural or other problems (e.g. with the type depositories) are explained as Note(s) under the particular taxon.

The type specimens are deposited in the following collections:

- AMNH American Museum of Natural History, New York, USA;
- ANIC Australian National Collection of Insects, CSIRO, Canberra, Australia;
- BMNH Natural History Museum, London, United Kingdom;
- BPBM Bernice P. Bishop Museum, Honolulu, Hawaii, USA;
- CASC California Academy of Sciences, San Francisco, California, USA;
- CHMHZ Chlupáč’s Museum of Earth History, Charles University, Prague, Czech Republic;

CNCI	Canadian National Collection of Insects, Ottawa, Canada;
KUPC	Department of Zoology, Charles University, Prague, Czech Republic;
HNHM	Hungarian Natural History Museum, Budapest, Hungary;
IECA	Institute of Entomology, Czech Academy of Sciences, České Budějovice, Czech Republic;
ISNB	Institut Royal des Sciences Naturelles de Belgique, Brussels, Belgium;
KUEC	Kyushu University, Entomological Collection, Fukuoka, Japan;
MAGNT	Museum and Art Gallery of the Northern Territory, Darwin, Northern Territory, Australia;
MGAB	Muzeul de Istorie Naturală “Grigore Antipa”, Bucharest, Romania;
MHNG	Muséum d’Histoire Naturelle, Geneva, Switzerland;
MMBC	Moravian Museum, Brno, Czech Republic;
MNHN	Muséum National d’Histoire Naturelle, Paris, France;
MRAC	Musée Royal de l’Afrique Centrale, Tervuren, Belgium;
MZHF	Zoological Museum, University of Helsinki, Helsinki, Finland;
NHMW	Naturhistorisches Museum in Wien, Vienna, Austria;
NMPC	National Museum, Prague, Czech Republic;
NMWC	National Museum of Wales, Cardiff, Wales, United Kingdom;
NZAC	New Zealand Arthropod Collection, Landcare Research, Auckland, New Zealand;
QCAZ	Museum of the Pontificia Universidad Católica del Ecuador, Quito, Ecuador;
QMBA	Queensland Museum, South Brisbane, Queensland, Australia;
RLRF	Rauno Linnavuori collection, Raisio, Finland;
RMNH	Naturalis Biodiversity Centre, Leiden, the Netherlands;
SAMA	South Australian Museum, Adelaide, South Australia, Australia;
SDEI	Senckenberg Deutsches Entomologisches Institut, Münchenberg, Germany;
SMFD	Forschungsinstitut und Naturmuseum Senckenberg, Frankfurt am Main, Germany;
UQIC	University of Queensland, St. Lucia, Brisbane, Queensland, Australia;
USNM	National Museum of Natural History, Smithsonian Institution, Washington, D.C., USA;
ZISB	Zoological Institute of the Bulgarian Academy of Sciences, Sofia, Bulgaria;
ZMAS	Zoological Institute, Russian Academy of Sciences, St. Petersburg, Russia;
ZMUC	Zoological Museum, University of Copenhagen, Copenhagen, Denmark;
ZSMC	Zoologische Staatssammlung, Munich, Germany.

## Order HEMIPTERA

### Suborder HETEROPTERA

#### Infraorder ENICOCEPHALOMORPHA

##### Family Aenictopecheidae

- Australostolus* Štys, 1980: 304. Type species: *Australostolus monteithi* Štys, 1980. Gender: masculine (original designation). Current status: Valid taxon (see CASSIS & GROSS 1995, ŠTYS 2002b).
- Australostolus monteithi* Štys, 1980: 307. Holotype: ♂, Australia: New South Wales: ‘Kincheha National park, nr. Menindee (32.20 N, 142.25 E)’ (ANIC, preserved in alcohol). Current status: Valid taxon (see CASSIS & GROSS 1995).
- Boreostolus* Wygodzinsky & Štys, 1970: 2. Type species: *Boreostolus americanus* Wygodzinsky & Štys, 1970. Gender: masculine (according to Art. 30.1.1 of ICZN 1999). Current status: Valid taxon (see FROESCHNER 1988, WYGODZINSKY & SCHMIDT 1991, KERZHNER 1995a, ŠTYS 2002b, SCUDDER & ŠTYS 2016).
- Boreostolus americanus* Wygodzinsky & Štys, 1970: 7. Holotype: ♂, USA: ‘Colorado: [Routt Co.] Clark’ (CASC). Current status: Valid taxon (see FROESCHNER 1988, WYGODZINSKY & SCHMIDT 1991, SCUDDER & ŠTYS 2016).
- Boreostolus sikhotalinensis* Wygodzinsky & Štys, 1970: 12. Holotype: ♂, Russia: ‘U.S.S.R.: Ussuri region, southern part of Sikhota Alin range, Suputinskij zapovednik [Suputinskiy Nature Reserve], latitude 43°58’ N., longitude 133°9’ E., inundation zone of Malaja Kamenka

- River’ (ZMAS). Current status: Valid taxon (see KERZHNER 1995a, VINOKUROV et al. 2010).
- Gamostolini* Štys, 1989a: 71. Type genus: *Gamostolus* Bergroth, 1927. Current status: Valid taxon (see WYGODZINSKY & SCHMIDT 1991, KERZHNER 1995a, ŠTYS 1995a).
- Maoristolinae* Štys, 1989a: 70. Type genus: *Maoristolus* Woodward, 1956. Current status: Valid taxon (see KERZHNER 1995a, ŠTYS 1995a).
- Murphyanella* Wygodzinsky & Štys, 1982: 130. Type species: *Murphyanella aliquantula* Wygodzinsky & Štys, 1982. Gender: feminine (original designation). Current status: Valid taxon (see ŠTYS 1989a, 2002b).
- Murphyanella aliquantula* Wygodzinsky & Štys, 1982: 136. Holotype: ♂, Singapore: ‘Bukit Timah Nature Reserve’ (AMNH). Current status: Valid taxon.
- Murphyanellinae* Štys, 1989a: 71. Type genus: *Murphyanella* Wygodzinsky & Štys, 1982. Current status: Valid taxon (see KERZHNER 1995a, ŠTYS 1995a).
- Nymphocorinae* Štys, 1989a: 70. Type genus: *Nymphocoris* Woodward, 1956. Current status: Valid taxon (see KERZHNER 1995a, ŠTYS 1995a).
- Nymphocoris hilli* Štys, 1988b: 304. Holotype: ♂, Australia: ‘Tasmania, Mt. Wellington (summit, 1250 m)’ (ANIC). Current status: Valid taxon (see CASSIS & GROSS 1995).
- †*Paenicotechys* Štys, 1969d: 353. Type species: *Enicocephalus fossilis* Cockerell, 1916. Gender: masculine (according to Art. 30.2.4 of ICZN 1999). Current status: Valid taxon.
- Timahocoris* Wygodzinsky & Štys, 1982: 136. Type species: *Timahocoris paululus* Wygodzinsky & Štys, 1982. Gender: masculine (original designation). Current status: Valid taxon (see ŠTYS 1989a, 2002b).
- Timahocoris paululus* Wygodzinsky & Štys, 1982: 142. Holotype: ♂, Singapore: ‘Bukit Timah Nature Reserve’ (AMNH). Current status: Valid taxon.
- Tornocrusus lattini* Štys & Baňář, 2008b: 1222. Holotype: ♂, Ecuador: Napo Province, 4.4 km NW of El Chaco, 0°18’48”S 77°50’21”W (QCAZ, currently deposited in MMBC). Current status: Valid taxon.
- Ulugurocoris* Štys & Baňář, 2013: 678. Type species: *Ulugurocoris grebennikovi* Štys & Baňář, 2013. Gender: masculine (original designation). Current status: Valid taxon.
- Ulugurocoris grebennikovi* Štys & Baňář, 2013: 682. Holotype: ♀ (microppterous), Tanzania: Uluguru Mts., at Budunki vil., 7°00’15”S 37°37’50”E (MMBC, deposited in alcohol). Current status: Valid taxon.

##### Family Enicocephalidae

- Alienates thomasi* Baňář & Štys, 2015 in BAŇAŘ et al. (2015a: 392). Holotype: ♀, Venezuela: Aragua Province, Rancho Grande (= Henry Pittier National Park) (USNM). Current status: Valid taxon.
- Alkowiella* Štys, 2002a: 326. Type species: *Alkowiella raunoi* Štys, 2002. Gender: feminine (original designation). Current status: Valid taxon (see AUKEMA et al. 2013).
- Alkowiella paleceki* Štys, 2002a: 333. Holotype: ♂, Yemen: ‘Al Kowd’ (RLRF → NMWC). Current status: Valid taxon (see AUKEMA et al. 2013).
- Alkowiella raunoi* Štys, 2002a: 330. Holotype: ♂, Yemen: ‘Al Kowd’ (RLRF → NMWC). Current status: Valid taxon (see AUKEMA et al. 2013).
- Ciucephalus* Štys, 1982c: 500. Type species: *Ciucephalus wygodzinskyi* Štys, 1982. Gender: masculine (original designation). Current status: Valid taxon (see ŠTYS 2002b).
- Ciucephalus wygodzinskyi* Štys, 1982c: 500. Holotype: ♂, New Caledonia: ‘Ciu, nr. Mt. Canala’ (AMNH). Current status: Valid taxon.
- †*Disphaerocephalinae* Štys, 1969d: 355. Type genus: *Disphaerocephalus* Cockerell, 1917. Current status: Valid taxon.
- Embolorrhinus (Ceratotrachelus) villiersi* Štys, 1969a: 282. Holotype: ♀, Guinea: ‘Nimba, Ziela’ (MNHN). Current status: Valid taxon (see VILLIERS 1969).
- Gourlayocoris* Štys, 2002b: 340. Type species: *Phthirocoris mirabilis* Gourlay, 1952. Gender: masculine (original designation). Current status: Valid taxon (see LARIVIÈRE & LAROCHELLE 2004).
- Heissaptera* Štys & Baňář, 2006b: 683. Type species: *Heissaptera janaki* Štys & Baňář, 2006. Gender: feminine (original designation). Current status: Valid taxon.
- Heissaptera janaki* Štys & Baňář, 2006b: 684. Holotype: ♀ (apterous), Mauritius: NW Mauritius, Le Pouce Mt., 20°11’48”S 57°31’21”E (NMPC, see KMENT et al. 2015: 437). Current status: Valid taxon.

- Henicocorinus* Štys, 1988a: 159. New substitute name for *Henicocoris* Villiers, 1969, preoccupied by *Henicocoris* Woodward, 1968 (Heteroptera: Henicocoridae). Gender: masculine (original designation). Current status: Valid taxon (see ŠTYS 2002b).
- Henschiella (Trarza) congoensis* Štys, 1968: 333, 340. Holotype: sex unknown – probably ♀, Democratic Republic of the Congo: ‘Congo: Katanga, Kipushi’ (BMNH). Current status: Valid taxon (see VILLIERS 1969).
- Hoplitocoris (Hoplitocoris) ethiopicus* Štys, 1969f: 75. Holotype: ♀, Ethiopia: ‘Addis Ababa [sic!], “A.O.I. Scioa” ’ (BMNH). Current status: Valid taxon (see VILLIERS 1969).
- Hoplitocoris (Iphlotocoris) isaroginus* Štys, 1981a: 93. Holotype: ♂, Philippines: Luzon, Prov. Camarines Sur, Mt. Isarog, 20 km E of Naga (13.36 N, 132.12 E) (BPBM). Current status: Valid taxon.
- Hoplitocoris (Iphlotocoris) xandrae* Štys, 1981a: 97. Holotype: ♀, Philippines: ‘Negros I., Dumaguete (9.20 N, 123.18 E), Camp Lookout’ (AMNH). Current status: Valid taxon.
- Iphlotocoris* Štys, 1981a: 90 (as subgenus of *Hoplitocoris* Jeannel, 1942). Type species: *Hoplitocoris isaroginus* Štys, 1981. Gender: masculine (original designation). Current status: Valid taxon (see ŠTYS 2002b).
- Kulichoderes* Štys, 2002a: 322. Type species: *Systelloderes iranicus* Štys, 1970. Gender: masculine (original designation). Current status: Valid taxon (see ŠTYS 2002b, AUKEMA et al. 2013).
- Megenocephalinae Štys, 1989a: 75. Type genus: *Megenocephalus* Usinger, 1945. Current status: Valid taxon (see KERZHNER 1995a, ŠTYS 1995a).
- Monteithostolinae Štys, 1981b: 412. Type genus: *Monteithostolus* Štys, 1981. Current status: Valid taxon, downgraded to tribe of Phthirocorinae Jeannel, 1942 (ŠTYS 1989a: 74; see ŠTYS 1995a).
- Monteithostolus* Štys, 1981b: 413. Type species: *Monteithostolus genitalis* Štys, 1981. Gender: masculine (original designation). Current status: Valid taxon (see ŠTYS 2002b).
- Monteithostolus caledonicus* Štys, 1982c: 496. Holotype: ♀, New Caledonia: ‘Kavatch, near Hienghène’ (NZAC). Current status: Valid taxon.
- Monteithostolus genitalis* Štys, 1981b: 413. Holotype: ♂, New Caledonia: ‘Houailou River, 300’ (UQIC). Current status: Valid taxon.
- Neoncylocotis kotejai* Štys & Baňaf, 2006a: 170. Holotype: ♂, Ecuador: ‘Pastaza Province, 2 km W of Santa Clara (01.18 S, 77.52 W)’ (QCAZ, currently deposited in MMBC). Current status: Valid taxon.
- Oncylocotis cupressi* Štys, 1999a: 207. Holotype: ♂ (submicropterous), Tanzania: Arusha, ‘S slope of Mt. Hanang (gorge of Himiti, 4.27 S, 35.24 E)’ (MRAC). Current status: Valid taxon, *Oncylocotis (Oncylocotis) cupressi* Štys, 1999 (see ŠTYS 2002b: 344).
- Oncylocotis froeschneri* Štys, 1986b: 149. Holotype: ♂ (extremely brachypterous), Democratic Republic of the Congo: ‘Zaire, Kivu, Uvira’ (MRAC). Current status: Valid taxon, *Oncylocotis (Oncylocotis) froeschneri* Štys, 1986 (see ŠTYS 2002b: 344).
- Oncylocotis (Oncylocotis) inexpectatus* Štys, Baňaf & Drescher, 2010: 29. Holotype: ♀, Malaysia: Sabah, Poring Hot Springs, 6°02'41.78"N, 116°42'01.97"E (MMBC, deposited in alcohol). Current status: Valid taxon.
- Oncylocotis lautereri* Baňaf & Štys, 2013: 322. Holotype: ♀, Australia: Northern Territory, Litchfield N.P., Tjanyera Falls, 13°15'S 130°44'E (MAGNT). Current status: Valid taxon.
- Oncylocotis neotenicus* Štys, 1982b: 486. Holotype: ♂ (micropterous), Indonesia: ‘Sumatra’ (RMNH). Current status: Valid taxon, *Oncylocotis (Oncylocotis) neotenicus* Štys, 1982 (see ŠTYS 2002b: 344).
- Oncylocotis occipitalis meridionalis* Štys, 1969a: 281. Holotype: ♀, South Africa: ‘S. Africa, Natal, Bell Morley’ (BMNH). Current status: Junior subjective synonym of *Oncylocotis (Oncylocotis) occipitalis* (Jeannel, 1942) (VILLIERS 1969: 66; see KERZHNER 1995a).
- Oncylocotis reductus* Štys, 1999a: 205. Holotype: ♂ (submicropterous), Tanzania: Arusha, ‘E slope of Mt. Oldeani’ (MRAC). Current status: Valid taxon, *Oncylocotis (Oncylocotis) reductus* Štys, 1999 (see ŠTYS 2002b: 344).
- Oncylocotis stehliki* Baňaf & Štys, 2013: 318. Holotype: ♂, Australia: Northern Territory, Nitmiluk N.P., 24°18'S 131°34'E, Edit Falls (MAGNT). Current status: Valid taxon (see BAÑAF & ŠTYS 2011).
- Owenoderes* Štys, 2002a: 323. Type species: *Systelloderes oculatus* Štys, 1969. Gender: masculine (original designation). Current status: Valid taxon (see ŠTYS 2002b).
- Phaenicoceclus* Štys & Baňaf, 2009: 22. Type species: *Phaenicoceclus sabahensis* Štys & Baňaf, 2009. Gender: masculine (original designation). Current status: Valid taxon.
- Phaenicoceclus granulatus* Baňaf & Štys, 2011: 17. Holotype: ♀, Malaysia: Sabah, Tambunan distr., Crocker Range, 1560–1650 m, near the pass (Kota Kinabalu–Tambunan road) (MHNG). Current status: Valid taxon.
- Phaenicoceclus minor* Štys & Baňaf, 2009: 24. Holotype: ♂, Malaysia: Sabah, Tambunan distr., Crocker Range, 51–52 km of road Kota Kinabalu–Tambunan (MHNG, preserved in alcohol). Current status: Valid taxon.
- Phaenicoceclus sabahensis* Štys & Baňaf, 2009: 28. Holotype: ♂, Malaysia: Sabah, Tambunan distr., Crocker Range, 1560–1650 m, near the pass (Kota Kinabalu–Tambunan road) (MHNG). Current status: Valid taxon.
- Phaenicoceclus schwendingeri* Štys & Baňaf, 2009: 30. Holotype: ♂, Malaysia: Sabah, West Coast Residency, Kinabalu Park, Mt. Kinabalu, 2600 m, near Layang-Layang (MHNG, preserved in alcohol). Current status: Valid taxon.
- Phallopiratinae Štys, 1985c: 271. Type genus: *Phallopirates* Štys, 1985. Current status: Valid taxon (see ŠTYS 1989a, WYGODZINSKY & SCHMIDT 1991, KERZHNER 1995a, ŠTYS 1995a).
- Phallopirates* Štys, 1985c: 271. Type species: *Phallopirates palawanicus* Štys, 1985. Gender: masculine (original designation). Current status: Valid taxon (see ŠTYS 2002b).
- Phallopirates borneensis* Štys, 1985c: 295. Holotype: ♂, Malaysia: ‘Borneo, Sarawak, 4th div. G. Mulu N. P., Karangas Forest, plot 3rd Camps’ (BMNH). Current status: Valid taxon.
- Phallopirates culionicus* Štys, 1985c: 291. Holotype: ♂, Philippines: ‘Culion I., 6 km W. Culion’ (BPBM). Current status: Valid taxon.
- Phallopirates malayicus* Štys, 1985c: 286. Holotype: ♂, Malaysia: ‘Johore St. (»Johar«), Layang Layang’ (AMNH). Current status: Valid taxon.
- Phallopirates palawanicus* Štys, 1985c: 272. Holotype: ♂, Philippines: ‘Palawan Is., Mantalingajan, Pinigisan’ (ZMUC). Current status: Valid taxon.
- Phthirocorisella* Štys, 1986a: 63. Type species: *Phthirocorisella petrophila* Štys, 1986. Gender: feminine (original designation). Current status: Valid taxon (see ŠTYS 2002b).
- Phthirocorisella petrophila* Štys, 1986a: 65. Holotype: ♂, Papua New Guinea: ‘Edie Creek’ (BPBM). Current status: Valid taxon.
- Phthirostenus* Štys, 2002b: 341. Type species: *Phthirocoris magnus* Woodward, 1956. Gender: masculine (original designation). Current status: Valid taxon (see LARIVIÈRE & LAROCHELLE 2004).
- Proboscipirates ericguilberti* Baňaf & Štys, 2015 in BAÑAF et al. (2015b: 408). Holotype: ♀, Madagascar: border of Andasibe N.P., Feon’ny Ala hotel surroundings (MMBC). Current status: Valid taxon.
- Proboscipirates rugulosus* Baňaf & Štys, 2015 in BAÑAF et al. (2015b: 412). Holotype: ♀, Madagascar: Andasibe N.P., Ambatomandondona (MMBC). Current status: Valid taxon.
- Pseudohenschiella hauseri* Baňaf & Štys, 2006: 8. Holotype: ♀, Madagascar: Antananarivo prov., Ankaratra hills, Manjakatempo Forest Station, near the summit of Anosiario (MHNG). Current status: Valid taxon.
- †*Pyrenicocephalus* Štys, 2010: 456. Type species: *Pyrenicocephalus jarzembowskii* Štys, 2010. Gender: masculine (original designation). Current status: Valid taxon.
- †*Pyrenicocephalus jarzembowskii* Štys, 2010: 456. Holotype: head, Great Britain, England, Kent, Isle of Sheppey, Paddy’s Point. Type horizon: Early Eocene. Upper London Clay, Division E, unit SH-12c (BMNH: Department of Palaeontology). Current status: Valid taxon.
- Stenopirates jeanneli* Štys, 1970d: 235. Holotype: ♂, India: ‘Sikkim, Singhik’ (BMNH). Current status: Valid taxon (see KERZHNER 1995a).
- Stenopirates montanus* Štys, 1970d: 231. Holotype: ♂, India: ‘N. W. India, Kumaun, Gori Valley’ (BMNH). Current status: Valid taxon (see KERZHNER 1995a).
- Stenopirates niger* Štys, 1970d: 231. Holotype: ♂, India: ‘N. W. Bengal, Darjeeling, “Gopaldhara, BW.” ’ (BMNH). Current status: Valid taxon (see KERZHNER 1995a).
- Systelloderes iranicus* Štys, 1970c: 443. Holotype: ♂, Iran: ‘Kulichan (region of Bakhtiari and Lurs)’ (ZMAS). Current status: Valid taxon, *Kulichoderes iranicus* (Štys, 1970) (ŠTYS 2002a: 322; see AUKEMA et al. 2013).

- Systelloderes loebli* Štys & Baňaf, 2007: 4. Holotype: ♀, New Caledonia: Mount Koghi (MHNG). Current status: Valid taxon.
- Systelloderes oculatus* Štys, 1969g in VILLIERS (1969: 219). Holotype: ♂, Nigeria (BMNH). Note: Due to the delay in publication, the intended original description (see ŠTYS 1970c: 446) was predated by VILLIERS' (1969) monograph (see ŠTYS 2002a: 323). The detailed type locality is Nigeria: 'Owena' (ŠTYS 1970c). Current status: Valid taxon, *Owenoderes oculatus* (Štys, 1969) (ŠTYS 2002a: 323).
- Systelloderes uvarovi* Štys, 1970c: 440. Holotype: ♂, Iraq: 'Kurdistan, Ugla Post on the road Mosul-Nisibin' (BMNH). Current status: Valid taxon, *Ugloderes uvarovi* (Štys, 1970) (ŠTYS 2002a: 323, see AUKEMA et al. 2013).
- Ugloderes* Štys, 2002a: 323. Type species: *Systelloderes uvarovi* Štys, 1970. Gender: masculine (original designation). Current status: Valid taxon (see ŠTYS 2002b, AUKEMA et al. 2013).
- Utukhengal* Štys, 2002a: 324. Type species: *Systelloderes utukhengal* Linnavuori, 1984. Gender: masculine (original designation). Current status: Valid taxon (see ŠTYS 2002b).
- Vuorillina* Štys, 1986c: 257. Type species: *Vuorillina carayoni* Štys, 1986. Gender: feminine (original designation). Current status: Valid taxon (see KERZHNER 1995a, ŠTYS 2002b).
- Vuorillina carayoni* Štys, 1986c: 258. Holotype: ♂, Saudi Arabia: 'S., nr. Athnen (montane locality in a *Juniperus* zone; near Abba, 18.00 n, 42.34 E, in Asir Mts)' (RLRF, NMWC, see KMENT & CARAPEZZA 2017: 536). Current status: Valid taxon (see KERZHNER 1995a).
- Xenicocephalus josifovi* Štys & Baňaf, 2008a: 360. Holotype: ♂, Suriname: Onverdacht, Para Distr., 5°36'N 55°09'W (RMNH). Current status: Valid taxon.
- Xenicocephalus tomhenryi* Štys & Baňaf, 2018: 35. Holotype: ♀, Ecuador: Pichincha Province, camino Aloag-Tandapi (USNM). Current status: Valid taxon.

## Infraorder DIPSOCOROMORPHA

### Family Ceratocombidae

- Ceratocombus* (*Ceratocombus*) *variegatus* Štys, 1977d: 298. Holotype: ♂ (submacropterous), Madagascar: 'Ambodivoangy' (MRAC). Current status: Valid taxon.
- Ceratocombus* (*Xylonannus*) *kunsti* Štys, 1958c: 372. Holotype: ♀ (macropterous, preserved in AGA), Czech Republic: 'South Bohemia, Velký Tisý' (coll. P. Štys, KUPC → MMBC). Current status: Junior subjective synonym of *Ceratocombus* (*Xylonannus*) *brevipennis* Poppius, 1910 (KERZHNER 1974: 73); the synonymy was discussed by ŠTYS (1990: 10) and KERZHNER (1995b: 7).
- Ceratocombus* (*Xylonannus*) *mareki* Štys, 1977d: 303. Holotype: ♀ (macropterous), Madagascar: 'Maroantsetra' (MRAC). Current status: Valid taxon.
- Feshina* Štys, 1983b: 221. Type species: *Feshina schmitzi* Štys, 1983. Gender: feminine (original designation). Current status: Valid taxon (see WEIRAUCH & ŠTYS 2014).
- Feshina schmitzi* Štys, 1983b: 223. Holotype: ♂, Democratic Republic of the Congo: 'Zaire, Kwango Prov., Feshi, left bank of Kwange R.' (MRAC). Current status: Valid taxon.
- Issidomimus* Štys, 1970a: 41, 42. Type genus: *Issidomimus* Poppius, 1910. Current status: Valid taxon (see KERZHNER 1995b, ŠTYS 1995b, WEIRAUCH & ŠTYS 2014).
- Kvamula* Štys, 1982a: 255. Type species: *Kvamula decora* Štys, 1982. Gender: feminine (original designation). Current status: Valid taxon (see HILL 2013, WEIRAUCH & ŠTYS 2014).
- Kvamula coccinelloides* Štys, 1982a: 368. Holotype: ♀ (elytroid), Vietnam: 'N. Vietnam, Cuc-Phuong, Ninh Binh' (HNHM). Current status: Valid taxon.
- Kvamula decora* Štys, 1982a: 356. Holotype: ♂, Vietnam: 'N. Vietnam, Prov. Ha-Tinh, forestière Hüông-sôn' (HNHM). Current status: Valid taxon.
- Kvamula pocsi* Štys, 1982a: 367. Holotype: ♂, Vietnam: 'N. Vietnam, Prov. Nghe-An, forestière Quy-chau' (HNHM). Current status: Valid taxon.
- Kvamula vietnamica* Štys, 1982a: 363. Holotype: ♂, Vietnam: 'N. Vietnam, Prov. Nghe-An, forestière Quy-chau' (HNHM). Current status: Valid taxon.

- Trichotonanninae Štys, 1970a: 41, 42. Type genus: *Trichotonannus* Reuter, 1891. Current status: Valid taxon (see KERZHNER 1995b, ŠTYS 1995b, WEIRAUCH & ŠTYS 2014).
- Trichotonannus oidipos* Štys, 1977d: 307. Holotype: ♀ (brachypterous), Madagascar: 'Ambodivoangy' (MRAC). Current status: Valid taxon.

### Family Dipsocoridae

- Cryptostemma incurvatum* Štys, 1977d: 296. Holotype: ♀ (macropterous), Madagascar: 'Nosy Mangabe' (MRAC). Current status: Valid taxon.

### Family Hysipterygidae

- Hysipteryx ugandensis* Štys, 1970a: 23. Holotype: ♀, Uganda: '1/4 ml. E. Bundibugyo' (BMNH). Current status: Valid taxon (see RÉDEI 2007).

### Family Schizopteridae

- Kokeshia martensi* Štys, 1985a: 188. Holotype: ♂ (macropterous), Nepal: 'Ilam District, Gitang Khola' (SMFD). Current status: Valid taxon (see KERZHNER 1995b, RÉDEI 2008, RÉDEI et al. 2012).
- Kokeshia similis* Štys, 1985a: 199. Holotype: ♂ (macroptrous), Nepal: 'Mustang District, S Lethe' (SMFD). Current status: Valid taxon (see KERZHNER 1995b, RÉDEI 2008, RÉDEI et al. 2012).
- Nannodictyus* Štys, 1982d: 450. Type species: *Nannodictyus baloghi* Štys, 1982. Gender: masculine (original designation). Current status: Valid taxon (see HILL 2014, WEIRAUCH & ŠTYS 2014).
- Nannodictyus baloghi* Štys, 1982d: 453. Holotype: ♀ (elytroid), Papua New Guinea: 'Wau region, Mt. Kumbak' (HNHM). Current status: Valid taxon (see HILL 2014).
- Semangananus* Štys, 1974c: 383. Type species: *Semangananus mirus* Štys, 1974. Gender: masculine (original designation). Current status: Valid taxon (see HILL 2013, 2014; KNYSHOV et al. 2016).
- Semangananus mirus* Štys, 1974c: 385. Holotype: ♂ (macropterous), Indonesia: Sulawesi: 'S. Celebes, Semanga' (NHMW). Current status: Valid taxon.

### Family Stemmocryptidae

- Stemmocryptidae Štys, 1983a: 257. Type genus: *Stemmocrypta* Štys, 1983. Current status: Valid taxon (see ŠTYS 1995b, WEIRAUCH & ŠTYS 2014).
- Stemmocrypta* Štys, 1983a: 258. Type species: *Stemmocrypta antennata* Štys, 1983. Gender: feminine (original designation). Current status: Valid taxon (see WEIRAUCH & ŠTYS 2014).
- Stemmocrypta antennata* Štys, 1983a: 258. Holotype: ♂, Papua New Guinea: 'Sisimangum village (Madang prov.)' (ISNB, preserved in alcohol or glycerol). Current status: Valid taxon.

## Infraorder NEPOMORPHA

### Family Aphelocheiridae

- Micraphelocheirus* Hoberlandt & Štys, 1979: 9 (as subgenus of *Aphelocheirus* Westwood, 1833). Type species: *Aphelocheirus pygmaeus* La Rivers, 1971. Gender: masculine (according to Art. 30.1.3 of ICZN 1999). Current status: Valid taxon (see POLHEMUS & POLHEMUS 1989, ZETTEL & PAPAČEK 2006). Note: In the original publication the name appears in two different original spellings: *Micraphelocheirus* and *Microphelocheirus* (on pp. 5, 12). The correct original spelling was established by POLHEMUS & POLHEMUS (1989: 182).
- Tampocoris* Hoberlandt & Štys, 1979: 5. Type species: *Tampocoris asiaticus* Hoberlandt & Štys, 1979. Gender: masculine (according to Art. 30.1.2 of ICZN 1999). Current status: Junior subjective synonym of *Micraphelocheirus* Hoberlandt & Štys, 1979 (POLHEMUS & POLHEMUS 1989: 182, 248; see ZETTEL & PAPAČEK 2006).
- Tampocoris asiaticus* Hoberlandt & Štys, 1979: 6. Holotype: ♂, Vietnam: 'Lao-cai' (HNHM). Current status: Valid taxon, *Aphelocheirus* (*Micraphelocheirus*) *asiaticus* (Hoberlandt & Štys, 1979) (POLHEMUS & POLHEMUS 1989: 254; see ZETTEL & PAPAČEK 2006).

### Family Corixidae

*Arctocorisa (Monticorixa) armeniaca* Štys, 1975e: 232. Holotype: ♂ (preserved in alcohol, partly dissected), Armenia: ‘Armenian Highlands, Dilijan env., Parz Lich Lake’ (coll. Štys, KUPC → MMBC). Current status: Valid taxon, *Monticorixa armeniaca* (Štys, 1975) (JANSSON 1995: 37; see KANYUKOVA 2006, FENT et al. 2011).

*Monticorixa* Štys, 1975e: 231 (as subgenus of *Arctocorisa* Wallengren, 1894). Type species: *Arctocorisa armeniaca* Štys, 1975. Gender: feminine (original designation). Current status: Valid taxon, upgraded to generic rank by JANSSON (1995: 37) (see KANYUKOVA 2006, FENT et al. 2011).

*Sigara (Retrocorixa) semistriata semistriata* var. *pseudolimitata* Štys, 1961a: 120. Holotype: ♂, Czech Republic: ‘Boh.[emia] occ., Soos’ (coll. Štys, KUPC → MMBC). Unavailable infrasubspecific name (ICZN 1999: 15.2) in synonymy of *Sigara (Retrocorixa) semistriata* (Fieber, 1848) (see JANSSON 1995: 49).

### Family Helotrephidae

*Mixotrepes* Papáček, Štys & Tonner, 1989: 107. Type species: *Mixotrepes hoberlandti* Papáček, Štys & Tonner, 1989. Gender: masculine (original designation). Current status: Valid taxon (see POLHEMUS 1995; PAPÁČEK & ZETTEL 2003, 2004, 2006, 2011).

*Mixotrepes hoberlandti* Papáček, Štys & Tonner, 1989: 111. Holotype: ♂ (brachypterous), Afghanistan: ‘E. Afghanistan, Nuristan, “Bashgultal” (... = Valley of Bashgul River)’ (NMPC, see KMENT et al. 2015: 438). Valid taxon: *Mixotrepes (Mixotrepes) hoberlandti* Papáček, Štys & Tonner, 1989 (see POLHEMUS 1995; PAPÁČEK & ZETTEL 2003, 2004, 2006).

*Trephotomas* Papáček, Štys & Tonner, 1988: 123. Type species: *Trephotomas compactus* Papáček, Štys & Tonner, 1988. Gender: masculine (original designation). Current status: Valid taxon (see POLHEMUS 1995, PAPÁČEK & ZETTEL 2004).

*Trephotomas compactus* Papáček, Štys & Tonner, 1988: 124. Holotype: ♂, Vietnam: ‘Vinh Phu Prov., Tam Dao, stream Suoi Bac (basin of the Red River)’ (IECA → ?). Current status: Valid taxon (see POLHEMUS 1995, PAPÁČEK & ZETTEL 2004).

Note: This holotype is not included in T. Soldán’s collection in IECA, containing only mayflies and a few butterflies (A. Bezděk, pers. comm.). Also M. Papáček (pers. comm.) did not locate it in his collection. The current depository of the holotype is unknown.

*Trephotomasinae* Papáček, Štys & Tonner, 1988: 122. Type genus: *Trephotomas* Papáček, Štys & Tonner, 1988. Current status: Valid taxon (see POLHEMUS 1995, PAPÁČEK & ZETTEL 2004).

### Family Nepidae

*Nepitella* Štys & Jansson, 1988: 5. New replacement name for *Nepita* Poisson, 1960, preoccupied by *Nepita* Moore, 1860 (Lepidoptera). Gender: feminine (original designation). Current status: Valid taxon.

### Family Notonectidae

†*Enithares? bohémica* Štys & Říha, 1975a: 164. Holotype: 5th instar larva (compression fossil, ventral view) (CHMHZ). Type locality: Czech Republic: ‘quarry 600 m NE of Modrý Kříž near Horní Bříza, Western Bohemia’. Type horizon: ‘greyish bituminous claystone (“Brandschiefer”’. Oligomiocene.’ Current status: Valid taxon.

## Infraorder GERROMORPHA

### Family Veliidae

*Velohebia* Štys, 1976d: 389. Type species: *Velohebia antennalis* Štys, 1976. Gender: feminine (according to Art. 30.2.4 of ICZN 1999). Current status: Valid taxon (see ANDERSEN 1982, CHEN et al. 2005).

*Velohebia antennalis* Štys, 1976d: 393. Holotype: ♂, Papua New Guinea: ‘N. E. New Guinea, Astrolabe Bay, Stephansort’ (HNHM). Current status: Valid taxon (see ANDERSEN 1982, CHEN et al. 2005).

*Velohebiini* Štys, 1976d: 388 (as tribe of Microveliinae China & Usinger, 1949 (1861)). Type genus: *Velohebia* Štys, 1976. Current status: Valid taxon (see ANDERSEN 1982).

## Infraorder CIMICOMORPHA

### Family Anthocoridae

*Acomporis pilipes* Štys, 1960c: 55. Holotype: ♀, Kazakhstan, ‘glen of the river B. Almatinka’ (ZMAS). Current status: Valid taxon (see PÉRICART 1996).

*Elatophilus (Elatophilus) roubali* Štys, 1959a: 65. Holotype: ♀, Slovakia: ‘Δ Zobor [hill] 598 m, Tribeč mountain’ (coll. Štys, KUPC → MMBC). Current status: Valid taxon (see PÉRICART 1972, 1996).

### Family Medocostidae

*Medocostes* Štys, 1967c: 441. Type species: *Medocostes lestoni* Štys, 1967. Gender: masculine (original designation). Current status: Valid taxon (see e.g. KERZHNER 1989, SCHUH & SLATER 1995).

*Medocostes carayoni* Štys, 1967c: 462. Holotype: ♀, Democratic Republic of the Congo: ‘Congo, Mayidi (alt. approx. 600 m, situated between Léopoldville [= Kinshasa] 4.18 S., 15.18 E. and Thysville 5.16 S., 14.53 E. ...)’ (MRAC). Current status: Junior subjective synonym of *Medocostes lestoni* Štys, 1967 (KERZHNER 1989: 150).

*Medocostes lestoni* Štys, 1967c: 457. Holotype: ♀, Ghana: Tafo (6.15 N., 0.20 W.)’ (MNHN). Current status: Valid taxon (see KERZHNER 1989) (Fig. 9).

Medocostidae Štys, 1967c: 439. Type genus: *Medocostes* Štys, 1967. Current status: Valid taxon. Treated as subgroup of the Velocipedidae (KERZHNER 1971), as subfamily of Nabidae (CARAYON 1970; KERZHNER 1981, 1989), or recently as valid family (SCHUH & ŠTYS 1991, SCHUH & SLATER 1995, SCHUH et al. 2009, GOSSNER & DAMKEN 2018, YAMADA et al. 2018).



Fig. 9. *Medocostes* cf. *lestoni* Štys, 1967, female from Cameroon, Nkolbisson, 11. iv. 1965, lgt. B. de Miré, coll. MNHN. 10.2 mm. Photo: M. Tkoč.



### Family Miridae

- Howefulvius* Schmitz & Štys, 1973: 402. Type species: *Howefulvius elytratus* Schmitz & Štys, 1973. Gender: masculine (original designation). Current status: Valid taxon (see CASSIS & GROSS 1995; SCHUH 1995, 2013; GORCZYCA 2006).
- Howefulvius elytratus* Schmitz & Štys, 1973: 404. Holotype: ♀, Australia: 'Lord Howe Island' (MZHF). Current status: Valid taxon (see CASSIS & GROSS 1995; SCHUH 1995, 2013; GORCZYCA 2006).
- Michailocoris* Štys, 1985d: 412. Type species: *Michailocoris kerzhneri* Štys, 1985. Gender: masculine (original designation). Current status: Valid taxon (see KERZHNER & SCHUH 1995; SCHUH 1995, 2013; KERZHNER & JOSIFOV 1999; LIN 2007; YASUNAGA & DUWAL 2007).
- Michailocoris josifovi josifovi* Štys, 1985d: 420. Holotype: ♀, Russia: 'USSR, Primorskiy Krai (= Maritime province), Khasanskiy rayon, zapovednik (= nature reserve) "Kedrovaya Pad"' (ZMAS). Current status: Valid taxon, *Michailocoris josifovi* (see KERZHNER 1988a,b, 1997; SCHUH 1995, 2013; KERZHNER & JOSIFOV 1999; LIN 2007).
- Michailocoris josifovi koreanus* Štys, 1985d: 423. Holotype: ♀, North Korea: 'Tesông-san nr. Phjôngjang' (ZISB). Current status: Junior subjective synonym of *Michailocoris josifovi* Štys, 1985 (KERZHNER 1997: 245; see KERZHNER & JOSIFOV 1999).
- Michailocoris kerzhneri* Štys, 1985d: 412. Holotype: ♂, Russia: 'USSR, Primorskiy Krai (= Maritime province), Khasanskiy rayon, Gusevskiy rudnik, 7 km N Zanadvorovka' (ZMAS). Current status: Junior subjective synonym of *Michailocoris josifovi* Štys, 1985 (KERZHNER 1988a: 791, 1988b: 67; see KERZHNER & JOSIFOV 1999).
- Rhodocoris akingbohungei* Štys, 1985d: 410. Holotype: ♀, Nigeria: 'Kom, State of IV' (coll. Akingbohunge, University of Ife, Nigeria). Current status: Valid taxon (see SCHUH 1995, 2013).
- Sulawesifulvius* Gorczyca, Chérot & Štys, 2004: 2. Type species: *Sulawesifulvius schuhi* Gorczyca, Chérot & Štys, 2004. Gender: masculine (original designation). Current status: Valid taxon (see GORCZYCA 2006, SCHUH 2013; MU & LIU 2014, YESHWANTH & CHÉROT 2015, WOLSKI et al. 2017).
- Sulawesifulvius schuhi* Gorczyca, Chérot & Štys, 2004: 6. Holotype: ♂, Indonesia: Sulawesi Utara, Dumoga-Bone N. P. (BMNH). Current status: Valid taxon (see GORCZYCA 2006, SCHUH 2013, MU & LIU 2014, YESHWANTH & CHÉROT 2015, WOLSKI et al. 2017).

### Family Plokiophilidae

- Heissophilinae Schuh, Štys & Cassis, 2015 in SCHUH et al. (2015: 21). Type genus: *Heissophila* Schuh, 2006. Current status: Valid taxon.
- Lipokophilini Schuh, Štys & Cassis, 2015 in SCHUH et al. (2015: 21). Type genus: *Lipokophila* Štys, 1967. Current status: Valid taxon.
- Lipokophila* Štys, 1967a: 248. Type species: *Lipokophila chinai* Štys, 1967. Gender: feminine (original designation). Current status: Valid taxon (see SCHUH et al. 2015).
- Lipokophila chinai* Štys, 1967a: 250. Holotype: ♂, Brazil: 'Nova Teutonia (27°11'S., 52°23'W.)' (BMNH). Current status: Valid taxon.
- Monteithophila* Schuh, Štys & Cassis, 2015 in SCHUH et al. (2015: 4). Type species: *Monteithophila queenslandana* Schuh, Štys & Cassis, 2015. Gender: feminine (original designation). Current status: Valid taxon.
- Monteithophila fijiensis* Schuh, Štys & Cassis, 2015 in SCHUH et al. (2015: 7). Holotype: Fiji: Vanua Levu: Kontiki, 19 km E Savusavu, 16.8°S 179.4333°E (QMBA). Current status: Valid taxon.
- Monteithophila queenslandana* Schuh, Štys & Cassis, 2015 in SCHUH et al. (2015: 6). Holotype: ♂, Australia: Queensland: Kirrama, near Smoko Creek, 18.18333°S 145.75°E (QMBA). Current status: Valid taxon.
- Neoplokioides* Štys & Baňář, 2016: 221. Type species: *Plokiophiloides tubifer* Carayon, 1974. Gender: masculine (original designation). Current status: Valid taxon.
- Neoplokioides raunoi* Štys & Baňář, 2016: 222. Holotype: ♂, Madagascar: border of Andasibe N.P., Feon'ny Ala hotel surroundings (MMBC). Current status: Valid taxon.
- Paraplokiophiloides* Schuh, Štys & Cassis, 2015 in SCHUH et al. (2015: 8). Type species: *Paraplokiophiloides schwendingeri* Schuh, Štys & Cassis, 2015. Gender: masculine (according to Art. 30.1.4.4 of ICZN 1999). Current status: Valid taxon.

*Paraplokiophiloides schwendingeri* Schuh, Štys & Cassis, 2015 in SCHUH et al. (2015: 18). Holotype: ♂, Thailand: Chang Rai Prov., Mae Sai District, Doi Tung, 20.31666°N 99.81666°E (AMNH). Current status: Valid taxon.

*Plokiophiloides steineri* Štys, 1991b: 426. Holotype: ♂, Madagascar: 'Prov. Fiaranantsoa, 7 km W Ranomafana' (USNM). Current status: Valid taxon (see ŠTYS & BAŇÁŘ 2016).

### Family Reduviidae

*Sphedanolestes* (*Sphedanolestes*) *pulcher marrensis* Štys, 1978a: 50. Holotype: ♀, Sudan: 'Darfur: Jebel Marra, Jebel Uwo (13.03 N., 24.22 E.)' (coll. Štys, KUPC → MMBC). Current status: Valid taxon (see MALDONADO CAPRILES 1990, PUTSHKOV & PUTSKOV 1996).

## Infraorder PENTATOMOMORPHA

### Family Alydidae

- †*Heeralydus* Štys & Řiha, 1975b: 190. Type species: *Heeralydus bucculatus* Štys & Řiha, 1975. Gender: masculine (original designation). Current status: Valid taxon.
- †*Heeralydus bucculatus* Štys & Řiha, 1975b: 191. Holotype: 'impression of the Heer's second specimen (with head on the right side). Deposited in the collections of the Palaeontologisch-Mineralogisch Kabinet van Teyler's Stichting in Haarlem, and provided with original labels "T" (red) and "8247", and with our label "*Heeralydus bucculatus* gen. n., sp. n. ŠTYS et ŘIHA, 1973 = *Alydus pulchellus*: HEER, 1853: 128 nec *A. pulchellus* HEER, 1853: 47". Type locality: Germany: Baden, 'Oeningen'. Type horizon: Upper Miocene. Current status: Valid taxon.
- †*Sulcalydus* Štys & Řiha, 1975b: 186. Type species: *Sulcalydus kalabisi* Štys & Řiha, 1975. Gender: masculine (original designation). Current status: Valid taxon.
- †*Sulcalydus kalabisi* Štys & Řiha, 1975b: 187. Holotype: Impression (head dextrally directed, pronotum verrucose) and counterimpression (head sinistrally directed, pronotum alveolate) on photographs deposited in the Department of Geology and Palaeontology, Moravian Museum, Brno. The original material was lost from the collections of the Moravian Museum in Brno during the events of World War II (see KALABIS 1950). Type locality: Czech Republic: Moravia, 'Kelč near Hranice'. Type horizon: 'menilite shales, Oligocene'. Current status: Valid taxon.

### Family Aphylidae

- Neoaphylum* Štys & Davidová-Vilimová, 2002: 108. Type species: *Neoaphylum grossi* Štys & Davidová-Vilimová, 2002. Gender: neuter (original designation). Current status: Valid taxon (see CASSIS & GROSS 2002, KMENT et al. 2012).
- Neoaphylum grossi* Štys & Davidová-Vilimová, 2002: 116. Holotype: ♀, Australia: 'Western Australia, N Agricultural Division, 60 km NE Wubin, 29°43'S, 117°04'E' (ANIC). Current status: Valid taxon (see CASSIS & GROSS 2002, KMENT et al. 2012).

### Family Aradidae

- Aneurus* (*Aneurus*) *hrdyi* Štys, 1975a: 30. Holotype: ♀, Cuba: 'Prov. Oriente, Cupeyal (Felicidad, Yateras)' (coll. Štys, KUPC → MMBC). Current status: Valid taxon (see PICCHI 1977; KORMILEV & FROESCHNER 1987; COSCARÓN & CONTRERAS 2012, 2015).
- Aneurus* (*Iralunelus*) *gallicus* Štys, 1974a: 54. Holotype: ♀, France: 'S. France, Bouches-du-Rhône, Eyguières' (coll. Štys, KUPC → MMBC). Current status: Valid taxon, *Iralunelus gallicus* (Štys, 1974) (KORMILEV & FROESCHNER 1987: 32; see HEISS 2001, HEISS & PÉRICART 2007).
- Iralunelus* Štys, 1974a: 91 (as subgenus of *Aneurus* Curtis, 1825). Type species: *Aneurus gallicus* Štys, 1974. Gender: masculine (original designation). Current status: Valid taxon, elevated to generic rank by KORMILEV & FROESCHNER (1987: 31) (see HEISS 2001, HEISS & PÉRICART 2007).

### Family Blissidae

- Howdenoblissus* Štys, 1991a: 266. Type species: *Howdenoblissus slateri* Štys, 1991. Gender: masculine (original designation). Current status: Valid taxon (see SLATER & O'DONNELL 1995, HENRY et al. 2015).
- Howdenoblissus slateri* Štys, 1991a: 269. Holotype: ♀ (apterous), Colombia: 'Norte de Santander, 30 km S. Chinacota' (CNCI). Current status: Valid taxon (see SLATER & O'DONNELL 1995, HENRY et al. 2015).

### Family Colobathristidae

- Bradalaria* Štys & Henry, 2015: 28. Type species: *Bradalaria bridarollii* Kormilev, 1951. New replacement name for *Bradalaria* Kormilev, 1951, preoccupied by *Bradalaria* Resser, 1936 (Trilobita). Gender: feminine (original designation). Current status: Valid taxon.
- Dayakiellinae Štys, 1966a: 37. Type genus: *Dayakiella* Horváth, 1922. Current status: Valid taxon (see KERZHNER 2001a).
- Dayakiella sumatrensis* Štys, 1966a: 32. Holotype: ♂, Indonesia: 'Sumatra: Fort de Kock' (BMNH). Current status: Valid taxon.
- Neolabradoria* Štys & Henry, 2015: 29. Type species: *Neolabradoria inexpectata* Štys & Henry, 2015. Gender: feminine (original designation). Current status: Valid taxon.
- Neolabradoria inexpectata* Štys & Henry, 2015: 29. Holotype: ♀, Peru: 'Pachitea [Province]' (ISNB). Current status: Valid taxon.
- Schuhacantha* Štys & Exnerová, 2013: 54. Type species: *Schuhacantha bifurcata* Štys & Exnerová, 2013. Gender: feminine (original designation). Current status: Valid taxon.
- Schuhacantha bifurcata* Štys & Exnerová, 2013: 54. Holotype: ♀, Malaysia: Pahang Province, Benom Mts., 15 km E Kampong Dong, 3.53N 102.01E (NHMW). Current status: Valid taxon.
- Symphylax confluens borneensis* Štys, 1977c: 438. Holotype: ♂, Malaysia: 'Sabah (= N. Borneo), Sandakan' (HNHM). Current status: Valid taxon.

- Symphylax gaurii* Štys, 1977c: 440. Holotype: ♂, Indonesia: Mentawai Is., Sipora, Sereinu (HNHM). Current status: Valid taxon.
- Symphylax horvathi* Štys, 1977e: 229. Holotype: ♂, Indonesia: 'S. E. Borneo' (SDEI). Current status: Valid taxon.

### Family Coreidae

- Agriopocoris dimorphus* Štys, 1964a: 26. Holotype: ♂, Australia: South Australia, Inman valley (SAMA). Current status: Junior subjective synonymy of *Agriopocoris froggatti* Miller, 1954 (BRAILOVSKY & CASSIS 1999: 305; see CASSIS & GROSS 2002, erroneously as *A. dimorpha*).

### Family Lygaeidae

- Gondarius* Štys, 1972d: 253. Type species: *Gondarius inexpectatus* Štys, 1972. Gender: masculine (original designation). Current status: Valid taxon (see SLATER & O'DONNELL 1995).
- Gondarius inexpectatus* Štys, 1972d: 257. Holotype: ♂ (brachypterous), Ethiopia: 'Addis Ababa [sic!] env., Entoto Hills' (coll. Štys, KUPC → MMBC). Current status: Valid taxon (see SLATER & O'DONNELL 1995) (Fig. 10).
- Karachicoris* Štys, 1972d: 258. Type species: *Karachicoris seidenstueckeri* Štys, 1972. Gender: masculine (original designation). Current status: Valid taxon (see HAMID & MEHER 1973, SLATER & O'DONNELL 1995).
- Karachicoris seidenstueckeri* Štys, 1972d: 262. Holotype: ♂ (micropterous), Pakistan: 'Karachi (= "Kurrachee")' (coll. Seidenstücker → ZSMC, see KOTHE et al. 2004: 55). Current status: Valid taxon (see HAMID & MEHER 1973, SLATER & O'DONNELL 1995).
- Lepionysius ashlocki* Štys, 1973b: 65. Holotype: ♂ (brachypterous), Australia: 'N. S. Wales, Mt. Victoria' (HNHM). Current status: Valid taxon (see SLATER & O'DONNELL 1995, CASSIS & GROSS 2002).

### Family Malcidae

- Malcus auriculatus* Štys, 1967b: 463. Holotype: ♂, Myanmar: 'N. E. Burma, Kambaiti [Lat. N. 25.25, Long. E. 98.06]' (BMNH). Current status: Valid taxon (see ZHENG 1999, KERZHNER 2001b).
- Malcus dentatus* Štys, 1967b: 464. Holotype: ♂, Thailand: 'S. W. Thai, Biserat [Lat. N. 6.35, Long. E. 101.12 ...]' (BMNH). Current status: Valid taxon (see ZHENG 1999, KERZHNER 2001b).
- Malcus elongatus* Štys, 1967b: 466. Holotype: ♂, Myanmar: 'N. E. Burma, Sadon [Lat. N. 25.21, Long. E. 97.54]' (BMNH). Current status: Valid taxon (see KONDOROSY 1999, ZHENG 1999, KERZHNER 2001b).
- Malcus flavidipes asper* Štys, 1967b: 468. Holotype: ♂, India: 'N. W. Bengal, Darjeeling [Lat. N. 27.02, Long. E. 88.20], "Gopaldhara"' (BMNH). Current status: Valid taxon (see KERZHNER 2001b).
- Malcus flavidipes kumaunensis* Štys, 1967b: 477. Holotype: ♂, India: 'Uttar Pradesh, Kumaun (= Kumaon), Haldwani Dist. [Lat. N. 29.13, Long. E. 79.31]' (BMNH). Current status: Valid taxon (see KERZHNER 2001b).
- Malcus furcatus* Štys, 1967b: 479. Holotype: ♂, Myanmar: 'N. E. Burma, Kambaiti [Lat. N. 25.25, Long. E. 98.06]' (BMNH). Current status: Valid taxon (see ZHENG 1999, KERZHNER 2001b).
- Malcus inconspicuus* Štys, 1967b: 483. Holotype: ♀, Vietnam: 'N. Vietnam, Ha Lang (= Ho Lang) [eastwards from Cao Bang: Lat. N. 22.35, Long. E. 106.40], "Mt. Tonkin", "Fairm" (? "Tairns")' (MGAB). Current status: Valid taxon (see ZHENG 1999, KERZHNER 2001b).
- Malcus indicus* Štys, 1967b: 485. Holotype: ♂, India: 'S. India, Madras, Tiruchirappalli (= Trichinopoly) [Lat. N. 10.50, long. E. 78.43]' (HNHM). Current status: Valid taxon (see ZHENG 1999, KERZHNER 2001b).
- Malcus insularis* Štys, 1967b: 487. Holotype: ♂, Taiwan: 'Hassenzan (Taichū-Shū), Kahodai-Reimei' (KUEC). Current status: Valid taxon (see ZHENG 1999, KERZHNER 2001b).
- Malcus mishmi* Štys, 1967b: 491. Holotype: ♂, Myanmar: 'N. W. Burma, Mishmis (= Mishmi) Hills' (BMNH). Current status: Valid taxon.
- Malcus nigrescens* Štys, 1967b: 492. Holotype: ♀, Myanmar: 'N. E. Burma, Kambaiti [Lat. N. 25.25, Long. E. 98.06]' (BMNH). Current status: Valid taxon (see ZHENG 1999, KERZHNER 2001b).
- Malcus nigrofasciatus* Štys, 1967b: 494. Holotype: ♀, India: 'N. W. Bengal, Darjeeling [Lat. N. 27.02, Long. E. 88.20], "Gopaldhara"' (BMNH). Current status: Valid taxon (see KONDOROSY 1999).



Fig. 9. *Gondarius inexpectatus* Štys, 1972, female paratype with locality and type label. Photo: P. Baňaf.

*Malcus pallidus* Štys, 1967b: 496. Holotype: ♂, Myanmar: 'N. Burma, Nam Tamai Valley [Lat. N. 27.42, Long. E. 97.54]' (BMNH). Current status: Valid taxon.

*Malcus setosus* Štys, 1967b: 498. Holotype: ♀, Myanmar: 'S. Burma, Carin Cheba [= Karen Cheba = Karenee]' (BMNH). Current status: Valid taxon (see ZHENG 1999, KERZHNER 2001b).

*Malcus similis* Štys, 1967b: 499. Holotype: ♂, Myanmar: 'N. Burma, Nam Tamai Valley [Lat. N. 27.42, Long. E. 97.54]' (BMNH). Current status: Valid taxon (see ZHENG 1999, KERZHNER 2001b).

*Malcus sinicus* Štys, 1967b: 501. Holotype: ♂, China: Szechwan, Pingwu (= Luan'fu) [Lat. N. 32.38, Long. E. 104.34]' (ZMAS). Current status: Valid taxon (see ZHENG 1999, KERZHNER 2001b).

*Malcus thoracicus* Štys, 1967b: 503. Holotype: ♀, Vietnam: 'N Vietnam, Kouei Tiao [Lat. N. 21.40, Long. E. 103.49 ...]' (= Kouy-Tchéou), "Rég. de Pin-Fa" (MNHN). Current status: Valid taxon (see KERZHNER 2001b).

*Malcus tuberculatus* Štys, 1967b: 504. Holotype: ♂, India: 'Assam, Lat. N. 27.53, Long. E. 96.05 [= valley of Luhit river]' (ZMAS). Current status: Valid taxon.

*Neochauliops* Štys, 1963b: 209. Type species: *Chauliops laciniata* Bergroth, 1916. Gender: masculine (according to Art. 30.1.4.3 of ICZN 1999, see Note). Current status: Valid taxon (see DUARTE RODRIGUES 1979).

Note: ŠTYS (1963b) derived the generic name from the existing genus *Chauliops* Scott, 1874, traditionally treated as feminine (cf. KERZHNER 2001b), and explicitly stated that *Neochauliops* is feminine. However, Article 30.1.4.3 of ICZN (1999), 'a compound genus-group name ending in *-ops* is to be treated as masculine, regardless of its derivation or of its treatment by its author', should apply for both *Chauliops* and *Neochauliops* and the gender agreement must be corrected in the following cases: *Chauliops conicus* Gao & Bu, 2009, *Ch. lobatulus* Breddin, 1907, *Ch. petiolatus* (Germar, 1837), *Ch. quaternarius* Gao & Bu, 2009, and *Neochauliops laciniatus* (Bergroth, 1916). The species epithet in *Chauliops bisontula* Banks, 1909 should be treated as noun in apposition.

### Family Piesmatidae

*Piesma linnavuorii* Štys, 1969c: 103. Holotype: ♂, Chad: 'Bas-Chari, Farcha (Fort Lamy env.)' (RLRF). Current status: Valid taxon.

### Family Plataspidae

*Coptosoma maurum seidenstueckeri* Davidová-Vilímová & Štys, 1980: 75. Holotype: ♂, Turkey: Anatolia, 'Belen (36.32 N, 36.11 E) nr. Amanus' (coll. Seidenstücker → ZSMC, see KOTHE et al. 2004: 48). Current status: Valid taxon, *Coptosoma maura seidenstueckeri* Davidová-Vilímová & Štys, 1980 (see DAVIDOVÁ-VILÍMOVÁ 2006, DOĞANLAR et al. 2007).

*Coptosoma raunoi* Davidová-Vilímová & Štys, 1980: 97. Holotype: ♂, Israel: ('Palestina'), Jaffa (32.03 N, 34.45 E)' (RLRF → NMWC, see KMENT & CARAPEZZA 2017: 533). Current status: Valid taxon (see DAVIDOVÁ-VILÍMOVÁ 2006).

### Family Rhyparochromidae

*Lilliputocoris slateri* Štys, 1987: ♀, Nepal: 'Gorkha Distr., Buri Gandaki Valley, betw. Arughat and Suteo' (SMFD). Current status: Valid taxon (see SLATER & O'DONNELL 1995).

## Order DIPTERA

### Family Syrphidae

*Syrphus (Dasysyrphus) postclaviger* Štys & Moucha, 1962: 60, 66. New substitute name for *Syrphus claviger* Frey, 1930, junior homonym of *Syrphus claviger* Sack, 1927. Current status: Valid taxon, *Dasysyrphus postclaviger* (Štys & Moucha, 1962) (see PECK 1988, LOCKE & SKEVINGTON 2013, HAARTO & KERPPOLA 2014).

*Syrphus (Dasysyrphus) postclaviger carpathicus* Štys & Moucha, 1962: 59, 60. Holotype: ♂, Slovakia: 'Vysoké Tatry [Mts.], Furkotská dolina [valley], 1700 m a.s.l.' (NMPC). Current status: Junior subjective synonym of *Dasysyrphus friuliensis* (van der Goot, 1960) (see PECK 1988, HAARTO & KERPPOLA 2014).

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