

I N M E M O R I A M

**In memoriam of Professor Miroslav Papáček (1953–2019):
biography, memories, bibliography and list of described taxa**Tomáš DITRICH¹⁾, Jan PETR¹⁾, Jan Š. LEPSŠ²⁾ & Petr KMENT³⁾¹⁾ Faculty of Education, University of South Bohemia, Branišovská 31a, CZ-370 05 České Budějovice, Czech Republic; e-mails: ditom@pf.jcu.cz; janpetr@pf.jcu.cz²⁾ Faculty of Science, University of South Bohemia, Branišovská 31a, CZ-370 05, České Budějovice, Czech Republic; e-mail: suspa@prf.jcu.cz³⁾ Department of Entomology, National Museum, Cirkusová 1740, CZ-193 00 Praha – Horní Počernice 9, Czech Republic; e-mail: sigara@post.cz

Abstract. Professor Miroslav Papáček (1953–2019) was an eminent specialist in morphology, taxonomy, systematics, biology and ecology of aquatic and semiaquatic bugs (Hemiptera: Heteroptera: Nepomorpha, Gerromorpha). All his career was connected with the Department of Biology, Faculty of Education, University of South Bohemia in České Budějovice, Czech Republic. Here we provide his short biography, personal memories of his colleague, bibliography currently comprising 125 papers in zoology and 57 in didactics of biology, and an annotated list of the taxa he described, which includes one subfamily (Helotrephidae: Trephotomasinae), three genera, two subgenera and 41 species of Helotrephidae and Aphelocheiridae.

Key words. Hemiptera: Heteroptera, Nepomorpha, Gerromorpha, Aphelocheiridae, Helotrephidae, Miroslav Papáček, biography, bibliography, list of described taxa

Accepted: 15th January 2020; Published online: 29th February 2020.**Zoobank:** <http://zoobank.org/urn:lsid:zoobank.org:pub:BBFACAB9-5E64-4331-878C-CE32DE13C29D>

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Biography

Miroslav Papáček was born on 1 October 1953 in Vimperk. He spent his early childhood in Kubova Huť village in Šumava Mountains, together with his father František and mother Jiřina. His father worked there as a forester, and young Miroslav – usually called Mirek by most people – had an everyday opportunity for watching and discovering the wonders of nature. He had repeatedly described many of his adventures with various animals in this early childhood. The excellent upbringing and positive example of his parents formed foundations of Mirek's personality and professional orientation.

Later, in 1959, his whole family moved to Suchdol nad Lužnicí. Mirek attended a local primary school (1959–1968) and continued to a secondary school in

Třeboň (1968–1972). Concurrently, from 1960, Mirek began learning to play musical instruments – the violin, later the trumpet and then he learnt to play the guitar, contrabass and bass guitar. His love of music stayed with him throughout his whole life, but he also liked sports – Mirek played ice-hockey and soccer during his childhood. After completing his general education in 1972, Mirek entered the Faculty of Science of Charles University in Prague, where he attended the study programme 'Biology and Chemistry for Teacher Education' with a specialization in Zoology. During his studies, he worked together with prof. Pavel Štys (see KMENT et al. 2019), who influenced Mirek's future scientific life and introduced him into the world of the true bugs (Hemiptera: Heteroptera). Already during his pregradual studies, Mirek paid particular attention to





Fig. 1. Young Mirek Papáček during his university studies (1970s, Prague-Albertov). Photo credit: family archive.

the aquatic bugs (Heteroptera: Nepomorpha), which lasted through his entire life. Mirek finished his pregradual studies in 1977 and two years later defended his rigorous thesis entitled ‘Morphogenesis of dorsal and ventral body side in the species *Notonecta glauca* L., ontogenesis of ventral breathing structures in the family Notonectidae’ obtaining RNDr. doctorate (= rerum naturalium doctor). In 1978 he started to work at a secondary school in the town of Prachatice, concurrently with his doctoral study of Entomology at the Faculty of Science of Charles University in Prague. At the same time, he also began teaching the Zoology course at the Faculty of Education in České Budějovice – indeed, this institution became his fate, as he was devoted to the Faculty of Education his whole life. The year 1978 also played another crucial role in Mirek’s life – he married Blaženka, an amazing and superb woman, who became Mirek’s lifetime partner. Together they formed an exemplary and enviable marriage, a partnership based on mutual love, trust and respect. They raised two sons – Miroslav (*1980) and Michal (*1984), who successfully found their careers as an architect and a pharmacist, respectively.

Mirek defended his dissertation (also devoted to aquatic bugs – ‘Life cycle, exoskeleton morphogenesis and evolution of breathing structures in *Plea leachi* (Mc Gregor et Kirkaldy) (Heteroptera: Pleidae)’ gaining his CSc. degree (candidatus scientiarum, the equivalent of Ph.D.) in 1986. Meanwhile, in 1983, he left the secondary school teaching position and started a full-time position

at the Department of Biology at the Faculty of Education in České Budějovice, which lasted through his whole life. In 1988, and again in 1993 – after the velvet revolution in 1989 and progressive legislative changes, he habilitated as an Associate Professor of Zoology. Soon, in 1995, Mirek became a full Professor of Zoology. Besides his position at the Faculty of Education, Mirek held part-time positions at the Faculty of Science at the University of South Bohemia, at the Institute of Entomology of the Czech Academy of Science, and in 2007–2010 also at the Faculty of Education at Charles University in Prague.

After five years at the Department of Biology at the Faculty of Education in České Budějovice, Mirek began employment in academic functions – a career that he definitely did not like more than the aquatic bugs, but that he was actually never allowed to quit thanks to his managing, organizational and general personal skills. In 1988 he became Head of the Department of Biology; in 1990 he was named Vice-Dean of the Faculty of Education and he played a significant role in the creation of the University of South Bohemia, which was established in 1991. Just a year later Mirek was elected as Dean of the Faculty of Education, which was one of the founding faculties of the University of South Bohemia in České Budějovice. He acted as the Dean of the Faculty of Education till 1997, when he became Vice-Dean and then he was elected as the Dean again for the years 2001–2006. Still, after 18 years in leading academic positions, Mirek was not allowed to return fully to the scientific work. He was Head of the Department of Biology again (2007–2015), concurrently with his function as Vice-Rector of the University of South Bohemia (2012–2016). While holding his faculty position, he lectured courses in Invertebrate Zoology, Evolutionary Biology, and Morphology & Histology, in addition to several other, more specialized ones.

Besides his academic functions, Mirek was a member of the scientific boards of several faculties of the University of South Bohemia, Charles University, the University of Economics in Prague, the University of West Bohemia and a member of the Scientific Board of the Institute of Entomology of the Czech Academy of Sciences. Mirek was an editor of *European Journal of Entomology* and a member of the editorial boards of several other journals, publishing in biological (*Folia Oecologica*) and educational (*Scientia in Educatione, Acta Rerum Naturalium Didactica*) research. He was also a member of several scientific societies (Czech Zoological Society, Czech Entomological Society, International Heteropterists’ Society, and Österreichische Entomofaunistische Gessellschaft).

It is surprising that Mirek’s enormous workload in academic functions allowed him to continue his scientific career. He is an author or co-author of 125 papers in zoology and 57 papers in didactics, including 61 original entomological papers, 16 original didactical papers, 38 textbooks and book chapters, and he edited 5 books, wrote 3 popular papers, 4 personalia, and authored 12 book reviews. Mirek also participated in more than 34 significant conferences in the Czech Republic as well as abroad since 1996 (for 55 abstracts see Bibliography).



Figs 2–3. Mirek Papáček at work. 2 – Mirek leading a group of students for insect sampling; 3 – Mirek in his university office, sorting insect samples. Photo credit: Jan Petr.

His entomological work was devoted entirely to the aquatic and semiaquatic bugs (Heteroptera: Nepomorpha, Gerromorpha). Early on, Mirek contributed significantly to the knowledge of the biology of European aquatic bugs. Later he paid particular attention to the tropical family Helotrephidae – Mirek became a widely respected expert on this taxon, cooperating mainly with Herbert Zettel and Damir Kovac. He described, on his own or as one of the co-authors, one subfamily, three genera, two subgenera, and 41 new species (see the List below). His knowledge of helotrephids resulted in several taxonomic revisions and guides to aquatic bugs (e.g., PAPÁČEK & ZETTEL 2000, 2003, 2005a; ZETTEL & PAPÁČEK 2004; ZETTEL et al. 2011, 2015).

Besides this taxonomic work, Mirek contributed significantly to the morphology of Nepomorpha, particularly to the understanding of the morphology and morphogenesis of various thoracic and abdominal structures (e.g., PAPÁČEK 1985a, 1986a,b, 1987a, 1999; PAPÁČEK et al. 1990a,b; PETR & PAPÁČEK 2006) as well as structure and development of the reproductive tract in Notonectoidea, Pleoidea and Naucoroidea (e.g., PAPÁČEK & SOLDÁN 1987a, 1992, 2008; PAPÁČEK & GELBIČ 1989; PAPÁČEK et al. 1997a). His reviews of the economic importance of the small nepomorphan families (PAPÁČEK 2000, 2001a) are also significant. From the 1980s, Mirek began to be interested in the ecology of water bugs, first of Nepomorpha, describing the life cycles of several Central European species (e.g., PAPÁČEK 1985b, 1988a, 1989a, 1991b; PAPÁČEK & HAUSÍRKOVÁ 1987; PAPÁČEK & BOHÁČEK 1989; PAPÁČEK & TRÍSKA 1992a), and later also of Gerromorpha. He published several important contributions on biology and ecology of semiaquatic bugs, mostly together with T. Ditrich, e.g. including a description of unique ecology of the water cricket *Velia caprai* (DITRICH & PAPÁČEK 2009b,d) and questioning the general validity of

the Developmental Rate Isomorphy in ectotherms (BOUKAL et al. 2015).

Mirek was not just a great scientist in the entomology field. His phenomenal teaching and mentoring abilities also resulted in educational research and general biology teaching conceptions. This began soon after his first teaching position when he published his experiences and proposal on the usage of non-traditional education tools (PAPÁČEK & ZIKMUND 1981) or his contributions on the subject of the optimal didactical insect species model (PAPÁČEK 1983, 1984; PAPÁČEK & SOLDÁN 1987b). Consecutively, he participated in the creation of biological textbooks (BOHÁČ et al. 1984, 1985, 1986a). Mirek, in accordance with his position at the Faculty of Education, focused more and more on biological education and tried to maximize its quality in terms of either didactical content or general conception of biological education. In 1990, he participated in the preparation of the Czech national standards for zoological education; later he reviewed materials for the Czech National Grammar School Final Exam in Biology. One of his outcomes from these activities was a popular textbook 'Zoology' (PAPÁČEK et al. 1994, 1997b, 2000), published in three editions, which Mirek co-authored with his friends and colleagues. He also contributed to a popular Japanese biology textbook (PAPÁČEK 2002d). Mirek followed trends and concepts in biological education, trying to incorporate them into the training of biology teachers. He published several educational conceptions and opinions (e.g., PAPÁČEK 1988c, 2005b, 2006b, 2016; PAPÁČEK & BOHÁČEK 1988). He significantly contributed to the establishment of a Ph.D. study programme 'Education in Biology' that is unique in the Czech Republic and also rare elsewhere in the world. From 2010 Mirek focused mainly on the problems of the implementation of the

inquiry-based science education into the Czech educational system (PAPÁČEK 2010b,c) and significantly helped to describe the development and evaluate the current conditions of the didactics of biology in the Czech Republic (PAPÁČEK et al. 2015, STUHLÍKOVÁ et al. 2015). It is impossible to describe the substantial positive impact Mirek had on students. Hundreds of teachers are now teaching biology with the lasting memory of Mirek Papáček, and thousands of people remember him, grateful for the opportunity to meet such a unique and wonderful person.

In November 2017, he was diagnosed with a serious oncological disease. Mirek underwent a surgery and several intensive medical treatments, which turned out as ineffective. Despite his problems, Mirek was still active, still lecturing and supervising students for their theses. Finally, on 29th April 2019, Mirek passed away, in the calm environment of his beloved family.

For previous brief biographies of Miroslav Papáček see SKUHRAVÝ (2008) and SCHUH & WEIRAUCH (2020).

Memories of Miroslav Papáček

From an old schoolmate, friend and musical companion

I met Mirek Papáček for the first time when we both started our university studies at the Faculty of Science at Charles University in Prague in the autumn of 1972. We did not work together too much during our studies, because Mirek was at the zoology department and I was a botanist, but we spent together five years in the legendary Albertov student dormitory, which was definitely not only a place for overnighting, but mainly a scene of stimulating student social life. At this time, the rooms were for five people – we did not share the same room, and I must admit that Mirek and his roommates were much better at music than me (and my roommates). His room was occupied by two other musicians, a violinist and a guitarist, and Mirek on contrabass. Together they often attracted ‘visiting musicians’ from other rooms and they played quite frequently. Mirek was always a very responsible student and prepared for the next day classes, considerably more than most other students (including myself) – nevertheless, if there was some reason to play (and you can imagine that it is not so difficult to find a good reason), he would eagerly take his contrabass and join the ‘performance’ (with the exception of the times reserved for meetings with his Blaženka, who later became his wife). Although he was able to play more instruments, contrabass was his favoured one, and he was an excellent player. Much later, we persuaded him to join our ŠuKaS (Šuspa’s Cacophonic Orchestra) group, and he played with us for more than twenty years; first on contrabass, and later, when contrabass seemed to be too heavy to be carried (and also, when we started to play more loudly), he switched to the bass-guitar. It was always a pleasure to play with him – and although I know that he enjoyed these sessions, everybody had fun seeing his poker-face. I have never understood how it is possible to play so vigorously and at the same time keep such a poker-face as Mirek did. Furthermore, we are grateful that Mirek kept playing with

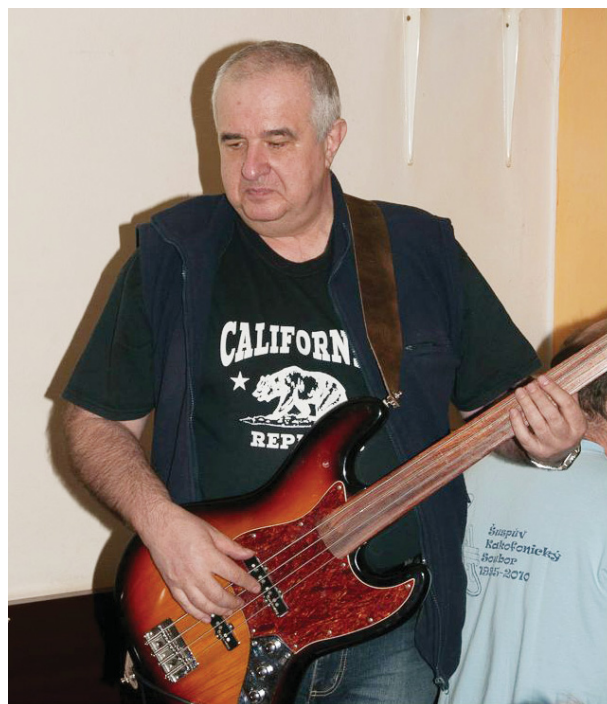


Fig. 4. Mirek Papáček and his bass guitar, playing with the Šukas band. Photo credit: family archive.

us for as long as he was able to do so, even at the time when the disease forced him to play sitting, in autumn 2018.

Mirek was also an enthusiastic sportsman. At these times, it was generally obligatory to be a member of a university sporting club (OK, it was obligatory to take physical exercises as a subject in the first four out of the five years at the university, but our faculty provided quite a few sporting clubs, where this duty could be fulfilled). Moreover, one of these clubs was rowing – cross-country skiing. I had never fully understood the logic behind connecting these two sports in a single club, but thanks to this, we were in the same club together – Mirek as a rower, and I was in the cross-country skiing section. Another member of the cross-country skiing was Blaženka, so the connection of these two sports (as illogical as it might be) finely brought him a life-long partner. He remained both a sport and music enthusiast, and as far as I know, both the rowing equipment and contrabass were parts of his dean’s office at the time when he was the dean of the Faculty of Education.

After we both joined the University of South Bohemia – Mirek was teaching at the Faculty of Education even before it became part of the University of South Bohemia, I joined when the University was founded – we worked together also professionally. In particular, Mirek was very active in negotiations leading to the establishment of the university, where I was also engaged, and this was the start of our new professional cooperation. Nevertheless, it was great that Mirek, although very busy at the time when he was dean or vice-rector, was always able to find time to join in the other activities – the nearly one hundred sessions of our music band ŠuKaS in which he took part was a great part of our lives.

Jan Šuspa Lepš

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The zoological bibliography of Miroslav Papáček comprises now 125 papers (i.e., 61 research papers, 35 conference abstracts, 3 edited books, 19 book chapters, 3 popular papers, 4 biographies). Besides, there are also 57 papers devoted to didactics of biology (i.e., 16 original papers, 12 textbooks and 7 book chapters, 2 edited books, and 20 conference abstracts), and 12 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 e). Translations of the Czech and Slovak titles are given in [square brackets.] For the taxonomically relevant papers we have verified the exact day of publication of the particular journal based on the information printed in the volumes, usually on the cover or in the index. These data are provided at the end of each reference in square brackets. If only the 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.

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List of described taxa

Here we provide an annotated list of all the taxa described by Miroslav Papáček, including one subfamily, 3 genera, 2 subgenera, and 41 species, all of them valid. The list is divided systematically according to the families. 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 the 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 appropriate, all the changes concerning the status of the name or taxon (i.e. 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 M. Papáček are listed in the reference section as usual. In case of need, existing problems with the type depositories are explained as Note under the particular taxon.

The type specimens are deposited in the following collections:

BMNH	The Natural History Museum, London, United Kingdom;
IECA	Institute of Entomology, Czech Academy of Sciences, České Budějovice, Czech Republic;
MPCC	Miroslav Papáček collection, České Budějovice, Czech Republic (to be deposited in NMPC);
NHMW	Naturhistorisches Museum in Wien, Vienna, Austria;
NMPC	National Museum, Prague, Czech Republic;
SMFD	Forschungsinstitut und Naturmuseum Senckenberg, Frankfurt am Main, Germany;
ZMHU	Zoologisches Museum, Hanoi University of Science, Hanoi, Vietnam;
ZRCS	Zoological Reference Collection, Lee Kong Chian Natural History Museum (former Raffles Museum of Biodiversity Research), Singapore.

Family Aphelocheiridae

Aphelocheirus (*Micraphelocheirus*) *bernhardti* Zettel & Papáček, 2006: 100. Holotype: ♂ (macropterous), Myanmar: 'Kinda-Stausee, Einzugsgeb. d. Palaung-Flusses [= Kinda dam, catchment area of Palaung river]' (NHMW). Current status: Valid taxon.

Aphelocheirus (*Micraphelocheirus*) *jaechi* Zettel & Papáček, 2006: 102. Holotype: ♀ (brachypterous), China: Yunnan, Xishuangbanna, ca. 6 km NW Mengla (NHMW). Current status: Valid taxon.

Aphelocheirus (*Micraphelocheirus*) *malayensis* Zettel & Papáček, 2006: 104. Holotype: ♂ (macropterous), Malaysia: West Malaysia, Ipoh, 5 km fr. Tanjong Rambutan (NHMW). Current status: Valid taxon.

Aphelocheirus (*Micraphelocheirus*) *trani* Zettel & Papáček, 2006: 106. Holotype: ♀ (brachypterous), Vietnam: Cao Bang Prov., Ha Quang, Phu Ngoc (ZMHU). Current status: Valid taxon (see TRAN & NGUYEN 2016).

Family Helotrephidae

Distotrephes (*Distotrephes*) *zetteli* Papáček & Kovac, 2001b: 1048. Holotype: ♂ (micropterous), Malaysia: West Malaysia, Selangor, Gombak River near Ulu Gombak Field Studies Centre of the Uni-

- versity of Malaya, ca. 30 km from Kuala Lumpur (SMFD). Current status: Valid taxon (see PAPÁČEK & ZETTEL 2005a).
- Esakiella acuminata* Zettel & Papáček, 2004: 343. Holotype: ♂ (brachypterous), Madagascar: Antsiranana, M. d'Ambre, Joffreyville, R. de Manques in Reserve Fonteray (NHMW). Current status: Valid species (see PAPÁČEK & ZETTEL 2005a).
- Esakiella gereckeii* Zettel & Papáček, 2004: 336. Holotype: ♂ (brachypterous), Madagascar: Fianarantsoa, Madiorano, stream crossing railroad at km 51.2 (NHMW). Current status: Valid species (see PAPÁČEK & ZETTEL 2005a).
- Esakiella goldschmidti* Zettel & Papáček, 2004: 340. Holotype: ♂ (brachypterous), Madagascar: Antananarivo, Ankaratra, Res. Manjakatomp, left affl. Riv. Mahiavona, E M. Mantsina (NHMW). Current status: Valid species (see PAPÁČEK & ZETTEL 2005a).
- Esakiella madli* Zettel & Papáček, 2004: 345. Holotype: ♀ (brachypterous), Madagascar: Ste. Marie, Foret de Kalalao (NHMW). Current status: Valid species (see PAPÁČEK & ZETTEL 2005a).
- Esakiella starmuehlneri* Zettel & Papáček, 2004: 341. Holotype: ♂ (brachypterous), Madagascar: Antsampsandrano, Ankaratra Mts. (NHMW). Current status: Valid species (see PAPÁČEK & ZETTEL 2005a).
- Helotrephes flaviceps rompinensis* Kovac & Papáček, 2000: 267. Holotype: ♂ (macropterous), Malaysia: West Malaysia, Rompin-Endau-Expedition, Sungei Kinchin, at the Base Camp (SMFD). Current status: *Helotrephes rompinensis* Kovac & Papáček, 2000, elevated to species rank by ZETTEL (2005a: 77) (see ZETTEL et al. 2011, 2015).
- Helotrephes senckenbergi* Papáček & Kovac, 2001a: 316. Holotype: ♂ (micropterous), Thailand: Chiang Mai Province, Doi Suthep, stream further up the Montatham waterfall (SMFD). Current status: Valid taxon (see PAPÁČEK & ZETTEL 2005a, ZETTEL 2005a).
- Helotrephes steiningeri* Kovac & Papáček, 2000: 266. Holotype: ♂ (brachypterous), Thailand: Chiang Mai Province, stream near Pong Duet Hot Springs, on the road from Chiang Mai to Mae Hong Son (SMFD). Current status: Valid taxon (see PAPÁČEK & ZETTEL 2005a, ZETTEL & SANGPRADUB 2019).
- Hydrotrephes maculatus* Papáček & Kovac, 2001a: 317. Holotype: ♂ (macropterous), Thailand: Narathivat Province, Ban Sac (ZRCS). Current status: Valid taxon (see PAPÁČEK & ZETTEL 2005a; POLHEMUS 2017; ZETTEL et al. 2011, 2015).
- Hydrotrephes mixtus* Papáček & Kovac, 2001a: 318. Holotype: ♂ (macropterous), Thailand: Narathivat Province, Ban Sac (ZRCS). Current status: Valid taxon (see PAPÁČEK & ZETTEL 2005a; ZETTEL et al. 2011, 2015).
- Idiotrephes asiaticus* Papáček & Zettel, 2000: 205. Holotype: ♂ (brachypterous), Vietnam: 'Dong Nai Pr. Nam Cat Tien NP (42) Dong Nai Riv.' (NHMW). Current status: Valid taxon (see PAPÁČEK & ZETTEL 2005a; ZETTEL et al. 2011, 2017).
- Idiotrephes hainanensis* Papáček & Zettel, 2000: 207. Holotype: ♂ (brachypterous), China: 'Hainan (204) 4 km E Jianfeng, 150 m Jianfeng Mt.' (NHMW). Current status: Valid taxon (see PAPÁČEK & ZETTEL 2005a).
- Idiotrephes maior* Papáček, 1994: 419. Holotype: ♀ (micropterous), Vietnam: Hanoi, Temple of Literature and Pagoda (Temple) on Islet in Hoan Kiem Lake (MPCC). Current status: Valid taxon (see PAPÁČEK & ZETTEL 2005a).
- Idiotrephes mazzoldii* Papáček & Kovac, 2001b: 1050. Holotype: ♂ (macropterous), Thailand: Mukdahan, Phu Pha Thoep NP (NHMW). Current status: Valid taxon (see PAPÁČEK & ZETTEL 2005a).
- Idiotrephes meszarosi* Papáček, 1995: 105. Holotype: ♂, Vietnam: 10 km W of Than Lóc (MPCC). Current status: Valid taxon (see PAPÁČEK & ZETTEL 2005a).
- Idiotrephes polhemusi* Papáček & Zettel, 2000: 206. Holotype: ♂ (brachypterous), Thailand: '(14) Prov. Rayong Khao Chamao NP' (NHMW). Current status: Valid taxon (see PAPÁČEK & ZETTEL 2005a).
- Idiotrephes shepardii* Papáček & Zettel, 2000: 209. Holotype: ♂ (brachypterous), Thailand: 'Petchabun Nam Nao NP, Prom Laeng' (NHMW). Current status: Valid taxon (see PAPÁČEK & ZETTEL 2005a).
- Idiotrephes thai* Papáček & Zettel, 2000: 208. Holotype: ♂ (brachypterous), Thailand: 'Khon Kaen Prov. Phu Phan Kham NP, Ban Noon Hua Chang, Huai Sam Caen' (NHMW). Current status: Valid taxon (see PAPÁČEK & ZETTEL 2005a).
- Idiotrephes yupae* Papáček & Zettel, 2000: 206. Holotype: ♂ (macropterous), Thailand: 'Chiang Mai Prov. Doi Inthanon NP, Mae Klang, Falls' (NHMW). Current status: Valid taxon (see PAPÁČEK & ZETTEL 2005a).
- Indotrephes latus* Papáček & Zettel, 2001: 287. Holotype: ♀ (brachypterous), India: Tamil Nadu, Palni Hills, 10°16'N 77°33'E, Perumalmalai' (NHMW). Current status: Valid taxon (see PAPÁČEK & ZETTEL 2005a, JEHAMALAR et al. 2018).
- Limnotrephes ceylonensis* Papáček & Zettel, 2003: 222. Holotype: ♀ (brachypterous), Sri Lanka: Colombo (BMNH). Current status: Valid taxon (see PAPÁČEK & ZETTEL 2005a).
- Limnotrephes thermophilus* Papáček & Kovac, 2001b: 1050. Holotype: ♂ (micropterous), Thailand: Doi Inthanon region (SMFD). Current status: *Mixotrephes (Thermotrephes) thermophilus* (Papáček & Kovac, 2001) (see PAPÁČEK & ZETTEL 2003, 2005a, 2006).
- Mixotrephes* Papáček, Štys & Tonner, 1989: 107. Type species: *Mixotrephes hoberlandti* Papáček, Štys & Tonner, 1989. Gender: masculine (original designation). Current status: Valid taxon (see POLHEMUS 1995; PAPÁČEK & ZETTEL 2003, 2005a, 2006, 2011).
- Mixotrephes bengalensis* Papáček & Zettel, 2003: 227. Holotype: ♂ (brachypterous), India: West Bengal, Kurseong (NHMW). Current status: *Mixotrephes (Mixotrephes) bengalensis* Papáček & Zettel, 2003 (see PAPÁČEK & ZETTEL 2005a, 2006; JEHAMALAR et al. 2018).
- Mixotrephes heissi* Papáček & Zettel, 2003: 228. Holotype: ♂ (brachypterous), India: West Bengal, Siliguri (NHMW). Current status: *Mixotrephes (Mixotrephes) heissi* Papáček & Zettel, 2003 (see PAPÁČEK & ZETTEL 2005a, 2006; JEHAMALAR et al. 2018).
- Mixotrephes hoberlandti* Papáček, Štys & Tonner, 1989: 111. Holotype: ♂ (brachypterous), Afghanistan: 'E. Afghanistan, Nuristan, "Bashgultal" (... = Valley of Bashgul River)' (NMPC, see KMENT et al. 2015: 438). Current status: Valid taxon: *Mixotrephes (Mixotrephes) hoberlandti* Papáček, Štys & Tonner, 1989 (see POLHEMUS 1995; PAPÁČEK & ZETTEL 2003, 2005a, 2006).
- Mixotrephes nepalensis* Papáček & Zettel, 2003: 226. Holotype: ♂ (brachypterous), Nepal: 20 km NW Pokhara, Lumle (NHMW). Current status: *Mixotrephes (Mixotrephes) nepalensis* Papáček & Zettel, 2003 (see PAPÁČEK & ZETTEL 2005a, 2006).
- Mixotrephes (Pictotrephes) pictus* Papáček & Zettel, 2011: 402. Holotype: ♂ (brachypterous), Laos: Champasak prov., Bolavens Plateau, ca. 1 km S Ban Lak 40 [vill.], Tad Yueang waterfall, 15°10.8'N 106°08.3'E (NMPC). Current status: Valid taxon.
- Mixotrephes (Thermotrephes) freitagi* Papáček & Zettel, 2006: 25. Holotype: ♂ (macropterous), Nepal: N Kathmandu, road to Langtang, E Dhunche, 'ca. 28.1°, 85.3°' (NHMW). Current status: Valid taxon
- Mixotrephes (Thermotrephes) punctatus* Papáček & Zettel, 2008: 87. Holotype: ♂ (hindwing-brachypterous), India: Meghalaya, SW of Cherrapunjee, 25°13–14'N 91°40'E (NHMW). Current status: Valid taxon (see PAPÁČEK & ZETTEL 2011, JEHAMALAR et al. 2018).
- Nanotrephes* Papáček & Zettel, 2001: 289. Type species: *Limnotrephes minutissimus* Zettel, 1997. Gender: masculine (original designation). Current status: Valid taxon (see PAPÁČEK & ZETTEL 2005a).
- Nanotrephes boukali* Papáček & Zettel, 2001: 292. Holotype: ♂ (macropterous), India: Karnataka, Coorg, Kakkabe env., 12°15'N 75°35'E (NHMW). Current status: Valid taxon (see PAPÁČEK & ZETTEL 2005a, JEHAMALAR et al. 2018).
- Nanotrephes duplicaturus* Papáček & Zettel, 2001: 296. Holotype: ♀ (macropterous), India: Kerala, 10 km WSW Munnar, Kallar valley, 10°03'N 76°59'E (NHMW). Current status: Valid taxon (see PAPÁČEK & ZETTEL 2005a, JEHAMALAR et al. 2018).
- Nanotrephes idiomorphus* Papáček & Zettel, 2001: 294. Holotype: ♂ (brachypterous), India: Kerala, 10 km W Munnar, Peshadu-Mangulam road, 10°04'N 76°58'E (NHMW). Current status: Valid taxon (see PAPÁČEK & ZETTEL 2005a, JEHAMALAR et al. 2018).
- Nanotrephes tuberculatus* Papáček & Zettel, 2001: 294. Holotype: ♀ (brachypterous), India: Kerala, 30 km NNE Trivandrum, Kallar Bridge, 8°45'N 77°05'E (NHMW). Current status: Valid taxon (see PAPÁČEK & ZETTEL 2005a, JEHAMALAR et al. 2018).
- Pictotrephes* Papáček & Zettel, 2011: 398 (subgenus of *Mixotrephes*). Type species: *Mixotrephes (Pictotrephes) pictus* Papáček & Zettel, 2011. Gender: masculine (original designation). Current status: Valid taxon.

- Thermotrepes* Papáček & Zettel, 2006: 24 (subgenus of *Mixotrepes*). Type species: *Limnotrepes thermophilus* Papáček & Kovac, 2001. Gender: masculine (original designation). Current status: Valid taxon.
- Tiphotrephes immaculatus* Papáček & Zettel, 2005b: 701. Holotype: ♂ (brachypterous), Vietnam: Ninh Binh Pr., Gia Vien, Van Long Wetland Nature Reserve (NHMW).
- 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 2005a).
- 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 2005a).
- Note.** This holotype is not included in T. Soldán's collection in IECA, containing only mayflies and few butterflies (A. Bezděk, pers. comm. 2018). Also M. Papáček (pers. comm. 2018) did not locate it in his collection. Current depository of the holotype is unknown (cf. KMENT et al. 2019: 374).
- Trephotomasinae* Papáček, Štys & Tonner, 1988: 122. Type genus: *Trephotomas* Papáček, Štys & Tonner, 1988. Current status: Valid taxon (see POLHEMUS 1995, PAPÁČEK & ZETTEL 2005a).

Dedicated taxa

- Eurymetra papaceki* Zettel, 2020: 21 (Heteroptera: Gerridae) [Madagascar]
- Helotrepes papaceki* Zettel, 2001: 98 (Heteroptera: Helotrephidae) [China: Yunnan]
- Hydrotrepes mireki* Zettel, 2009: 42 (Heteroptera: Helotrephidae) [Philippines: Palawan]
- Nerthra papaceki* Nieser, Chen & Caspers, 2020: in press (Heteroptera: Gelastocoridae) [Bonaire and Curaçao]
- Ochterus papaceki* Kment & Carapezza, 2020: 25 in KMENT et al. (2020) [Tanzania, Yemen: Socotra.]
- Papacekia* Zettel, 2005b: 82 (Heteroptera: Helotrephidae). Type species: *Papacekia microphthalmia* Zettel, 2005.
- Psilotreta papaceki* Malicky, 1995: 872 (Trichoptera: Odontoceridae) [Vietnam]

Acknowledgements

We are grateful to Mirek's family for photos from the family archive and information from Mirek's personal life. Jitka Vilimová (Faculty of Science, Charles University, Prague, Czech Republic) kindly obtained the information on Mirek's diploma thesis.

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