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Wiesław Krzemiński—a man of a great passion for fossil flies

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FIGURE 1. Wiesław Krzemiński, Natural History Museum in London, 2014 (photo A. Soszyńska-Maj).

Wiesław Krzemiński was born on 26 October 1948, in Oświęcim, south of Poland. In his youth he was an addicted book reader and developed his love for nature. After few years of playing in a big beat band he eventually focused on biology. Currently, he is a full time Professor and works in the Institute of Systematics and Evolution

Polish Academy of Sciences in Kraków (ISEA PAS) and the Pedagogical University in Kraków.

In 1976, Wiesław finished his master's degree at the Department of Biology and Earth Sciences at the Jagiellonian University in Kraków under the supervision of Dr. Janusz Wojtusiak. His thesis considered the taxonomy



FIGURE 2. A, Wiesław Krzemiński, and his current fossil-working team during Amberif 2018; from left I. Kania, K., Kopeć, A., Soszyńska-Maj, K., Skibińska, K. **B**, Wiesław and his great passion—nematoceran flies in amber, Tengchong 2018 (**A**, photographer unknown, **B**, photo A. Soszyńska-Maj).

of the genus *Chionea*, a winter-active wingless fly of the family Limoniidae (Diptera). Since then his scientific interest has focused on nematoceran flies, mainly the Limoniidae, to which Wiesław became addicted all his life till now. In 1978 he was employed in the Institute of Systematics and Evolution of Animals, Polish Academy of Science (ISEA PAS). The first task of investigation on Antarctic fauna resulted in the next summer season spent at the Henryk Arctowski Polish Antarctic Station on King George Island. His first publication dealt with elephant seals. The Institute was, and is, a great place to work for Wiesław, and it gave him opportunities of expeditions to faraway countries.

Wiesław Krzemiński defended his PhD thesis on a

Recent Limoniidae: “Eriopterinae (Diptera, Nematocera) of Poland” in 1981. Shortly after obtaining his PhD he became interested in fossil insects, beginning with Baltic amber inclusions and soon after with much older fossil imprints in sedimentary rocks. In 1993 he defended his habilitation thesis “Triassic and Lower Jurassic stage of the Diptera evolution” at the Faculty of Biology and Earth Sciences, Jagiellonian University in Kraków. In 2003 he received his state professor nomination and he started academic work, first at the Faculty of Biology and Agriculture, University of Rzeszów (2005–2009) and since 2010 at the Faculty of Geography and Biology, Pedagogical University in Kraków, where he currently works. He lectures on palaeontology and evolution and



FIGURE 3. Always working. **A**, CNU in Beijing with Prof. Dong Ren, 2017. **B**, Tengchong, 2018. **C**, During 8th IPC Meeting in Santo Domingo 2019 with R. Pérez-de la Fuente and A. Soszyńska-Maj. **D**, Work with Burmese amber collection, with K. Kopeć and Q. Zhang, Shanghai 2018 (**A**, **D** photos A. Soszyńska-Maj, **B**, **C** photos K. Kopeć).

conducts palaeontological field classes during which students collect fossil specimens and try to determine them on the spot.

The forty-years of scientific work of Wiesław Krzemiński has concentrated mostly on the systematics, evolution and phylogeny of the order Diptera, Nematocera and the last years he has become more interested in fossil Mecoptera. He works on fossil and recent materials. His main interest was the homology of wing venation within Antliophora, and its significance to systematics and phylogeny. Among his scientific achievements is a description of the oldest Diptera from the Lower/Middle Triassic of France, *Grauvogelia arzvilleriana*. This representative of the extinct lineage ancestral to the Tanyderidae and Psychodidae, have been recently used to age calibration of whole the Diptera order. His long lasting passion are nematoceran flies in Baltic amber, which he has been collecting for decades, mainly at his own expense and on his own time. His activity has been connected also with other areas of palaeontology, the

Carboniferous insects from Silesia, and Jurassic crabs from Polish localities. Easy and amiable attitude to the amateur collectors of fossils helped him to rediscover half-forgotten localities and to gain the large collection of ca. 7,000 Jurassic crabs, now the property of the ISEA PAS under the investigation of Polish and international teams. His collection of Paleozoic Palaeodictyoptera from Poland together with Jakub Prokop's study from Czech gave backgrounds to some evolutionary hypothesis about insect wing origins.

In 1991, he and his wife, Ewa, organized in Kraków the International Conference on Tipulomorpha, and in 2001, the 2nd International Conference on Fossil Insects; during the latter meeting both initiated the International Palaeoentomological Society. On Polish ground, Wiesław was co-founder of two intensively working sections of the Polish Entomological Society: Fossil Insects and Dipterological. His scientific work and passion was awarded with "The Cross of Merit" by the President of Poland, Medal of the President of the City of Gdańsk for



FIGURE 4. Social meetings. **A**, With Vladimir Blagoderov in London Pub, 2014. **B**, Dinner in Beijing, 2017. **C**, Garden party at Jorg Ansorge's house (**A**, **B** Photos A. Soszyńska-Maj).

his dedication to promotion of Baltic amber and the city of Gdańsk as a World Capital of Amber, Medal of the Polish Entomological Society for his merit to the society, award of the Polish Academy of Sciences for his book "In amber trap", "Honoris Gratia" medal of the President of Kraków for people distinguished for the city of Kraków, and recently an honorary member of the Polish Entomological Society in 2019. Till the end of 2019 he has authored almost 170 scientific publications, and has been a co-author of few books and some academic papers and chapters in academic books. He has promoted numerous bachelor and master theses and two doctoral dissertations. Thanks to his help, two habilitations considering fossil Limoniidae and one relating to Mecoptera have been initiated.

A great merit of Wiesław Krzemiński's scientific activity in Poland was the establishment of the Natural

History Museum on behalf of the Polish Academy of Sciences. The museum is situated in the art nouveau style building formerly being occupied by public baths at 9, Św. Sebastiana Street. Since 1990 Wiesław is the director of this Museum and has organized more than 70 exhibitions, mainly on fossil and living fauna and on nature protection. Between 1994 and 2009, Wiesław headed the Pro Natura Foundation, which supported the Museum by helping people dismissed from the Institute during obligatory staff reductions, and helped fund the introduction of the tortoise *Emys orbicularis* to water bodies in eastern Poland. The Museum also houses a collection of Baltic amber inclusions (ca 5,000 items), which is growing every year. He also took part in organizing the Natural History Museums in Bolestraszyce, the Wolin National Park, the Magura National Park, the Tatra National Park Museum, and the Museum of Nature, Crafts and Ethnography at Srokowo near Kętrzyn in the northern Poland.



FIGURE 5. **A**, During field trip after 7th IPC Meeting, Scotland 2016 with Andrew Ross. **B**, Daohugou fossil site, Inner Mongolia, China, 2015. **C**, With Prof. Dong Ren's students and field co-worker Inner Mongolia 2016 (**A**, **B** Photos A. Soszyńska-Maj).

During his countless trips over the years have included working in various collections worldwide, looking for new material for study, and meeting new friends were the main aspects of his work. His open and friendly personality enabled him cooperation with many colleagues from abroad, which has had, and still has, a great impact on Wiesław's further studies. His skills in working up the fossil imprints were mastered under the supervision of the worldwide known Russian palaeontologists: Alex Rasnitsyn, Irina Sukacheva, Yura Popov, Vladimir Zherikhin; all became his lifelong friends; as well as Vladimir Blagoderov and Lena Lukashovich of the younger generation. Chen W. Young from Philadelphia helped Wiesław visit the most important American institutions in 1991. Chen also borrowed for him the Upper Triassic Diptera from the Yale University, at that time the oldest Diptera; one genus and a family was then named after his daughter Alinka. In 1992, thanks to Dr. Christophe Dufour, then head of the Musée National d'Histoire Naturelle in Neuchâtel (Switzerland), a joint exhibition on Baltic

amber fauna, "Les phantômes de l'ambre", was organized in Neuchâtel and later, in Kraków; a book of the same title was also published. Christophe and other colleagues from Switzerland helped him to publish his habilitation in the international journal; it was then a rare event in a still communistic country and helped Wiesław to gain international attention. Collaboration with Prof. Christine Dahl from Uppsala on fossil Trichoceridae resulted, in a joint monograph "*Monograph of fossil Trichoceridae (Diptera), over 180 million years of evolution*". In the area of the recent fly study, Wiesław Krzemiński has always had close cooperation with Pjotr Oosterbroek, Herman de Jong, and Sigita Podenas. Cooperation with well-known English palaeontologists, Ed Jarzembowski, Andrew Ross, Robert Coram as well as his close friend Jörg Ansorge from Germany, resulted in many important publications. As an active member of the World Amber Council, Wiesław participated in all meeting of the World Amber Council and in the International Fairs of Amber (Amberif) where he came to know many friends and collaborators, e.g., the famous Baltic amber collectors

from Germany, Christel and Hans Hoffeins, and Jonas Damzen from Lithuania. Close scientific friendship with Dong Ren from Beijing in China succeeded in cooperation on a unique collection of Diptera and Mecoptera from the Upper Jurassic from the Inner Mongolia and also helped to win two consecutive grants for the studies on fossil Diptera and Mecoptera. Wiesław Krzemiński participated in the international project INTAS “The terrestrial fauna and flora of the Insect Bed, Isle of Wight: interpreting the climate near the Eocene/Oligocene boundary” as head of the Polish team, and the head of the Fossil Diptera Research Team. He also received financial support for his scientific research from the Polish government since 1994. Among others, in 2002–2004 he was a head of the project: “Phylogenetic position of key dipteran families in the light of paleontological, histological and cytological researches” supported by the State Committee of Scientific Research (3 P04C 108 22). In 2014 he gained support for a project funded by the National Science Center in Poland “Origin and phylogenetic relationships among fossil and recent Mecoptera” (2013/09/B/NZ8/03270) and since 2017 he has been a head of the project: “Mesozoic stage of evolution of the nematoceros Diptera in context of contemporary biogeographical changes; importance of this group to the evolution of the order” (2016/23/B/NZ8/00936).

He has worked with all the important fossil collections; among others: the Smithsonian Institution in Washington, D.C.; the American Museum of Natural

History in New York; the Australian National Insect Collection in Canberra, Australia; the Muséum national d’Histoire naturelle, Paris, France; the Natural History Museum in London, England; the Ernst Moritz Arndt University of Greifswald, Germany; the Alava Museum of Natural Sciences, Spain; the Oertijd Museum, Boxtel, The Netherlands; the General Geoscience Centre of the University of Göttingen, Germany; the Jura Museum, Eichstätt, Germany; the Russian Academy of Sciences, Moscow, Russia; the Paleontological Institute, Capital Normal University, Beijing, China; the Institute of Geology and Palaeontology, Chinese Academy of Sciences, Nanjing, China. He has taken part in many official and private expeditions, among others, to Antarctica, Algeria, Libya, Tunisia, Venezuela, Columbia, Peru and Ecuador, North Korea, Vietnam, Australia, and across India from Nepal to Sri Lanka, New Zealand, and Brazil.

Privately, Wiesław married Ewa Krzemińska in 1976, who became his companion not only in everyday life but also during his research work (see the list of publications). They have one daughter Alina. His close friend is another well-known fossil flies lover, Prof. Ryszard Szadziewski, privately a neighbour in the village in the Masurian Lake District where both friends have long scientific discussions during summer vacations.

Wiesław is not going to slow down, currently his new passion are nematoceros flies from Burmese amber. He has plenty of new research ideas that he wants to develop with his team.

Appendix. Publications of Wiesław Krzemiński (1978–2019)

1978:

1. Krzemiński, W. (1978) Genus *Chionea* Dalm. And *Niphadobata* Enderl. (Diptera, Limoniidae) from Poland. *Zeszyty Naukowe UJ, Prace Zoologiczne*, 24, 109–127 [In Polish].

1981:

2. Krzemiński, W. (1981) Southern elephant seal (*Mirounga leonina* L.) of Admiralty Bay (King George Island). Its number and activity during the moulting season in summer 1978/79. *Polish Polar Research*, 2 (1–2), 143–152.

1982:

3. Krzemiński, W. (1982) Contributions to the taxonomy of the European species of *Chionea* Dalman (Diptera: Limoniidae). *Entomologica Scandinavica*, 13, 193–200.
<https://doi.org/10.1163/187631282X00110>
4. Krzemiński, W. & Wiedenska, J. (1982) Species of the family Limoniidae (Diptera, Nematocera) new to fauna of Poland. *Przegląd Zoologiczny*, 26, 173–176 [In Polish].

1983:

5. Krzemiński, W. (1983) Trichoceridae of Poland (Diptera, Nematocera). *Polish Journal of Entomology*, 53, 129–138.
6. Krzemiński, W. & Skalski, A. (1983) *Pseudolimnophila siciliana* sp. n. from Sicilian amber (Diptera, Limoniidae). *Animalia*, 10(1/3), 303–307.

1984:

7. Krzemiński, W. (1984) Limoniidae of Poland (Diptera, Nematocera). Part I, subfamily Eriopterinae. *Acta zoologica cracoviensia*, 27 (20), 437–518.
8. Krzemiński, W. (1984) Limoniidae of Bulgaria (Diptera, Nematocera). I. *Acta Zoologica Bulgarica*, 24, 27–34.
9. Krzemiński, W. & Starý, J. (1984) A new species of *Baeoura* Alexander, 1924 (Diptera, Limoniidae) from Algeria. *Polish Journal of Entomology*, 54, 359–361.
10. Starý, J. & Krzemiński, W. (1984) A new species of *Idiocera* from Algeria (Diptera, Limoniidae). *Annotationes Zoologicae et Botanicae*, 159, 1–3.

1985:

11. Krzemiński, W. (1985) Limoniidae (Diptera Nematocera) from Baltic amber (in the collection of the Museum of the Earth in Warsaw). Part I. Subfamily Limoniinae. *Prace Muzeum Ziemi*, 37, 113–117.
12. Krzemiński, W. (1985) A representative of Trichoceridae (Diptera Nematocera) from Baltic amber (in the collection of the Museum of the Earth in Warsaw). *Prace Muzeum Ziemi*, 37, 119–121.
13. Kulicka, R., Krzemiński, W. & Szadziewski, R. (1985) Flies (Diptera Nematocera) from Baltic amber from the collection of the Earth Museum PAS in Warsaw. *Prace Muzeum Ziemi*, 37, 105–111 [In Polish].

1986:

14. Krzemiński, W. (1986) Ptychopteridae of Poland (Diptera, Nematocera). *Polish Journal of Entomology*, 56, 105–131.

1987:

15. Krzemiński, W. & Teskey, H.J. (1987) New taxa of Limoniidae (Diptera: Nematocera) from Canadian amber. *The Canadian Entomologist*, 119, 887–892.
<https://doi.org/10.4039/Ent119887-10>
16. Jabłoński, B., Krzemiński, W. & Zdzitowiecki K. (1987) Distribution and number of fur seals, *Arctocepalus gazella* (Peters, 1875) of King George Island (South Shetlands). *Acta zoologica cracoviensia*, 30(9), 119–136.

1988:

17. Krzemiński, W. & Kovalev, V. (1988) The taxonomic status of *Architipula fragmentosa* (Bode) and the family Eoasilidae (Diptera) from the Lower Jurassic. *Systematic Entomology*, 13, 55–56.
<https://doi.org/10.1111/j.1365-3113.1988.tb00228.x>

1989:

18. Krzemiński, W. & Starý, J. (1989) Limoniidae of Bulgaria. II. (Diptera, Nematocera). *Polish Journal of Entomology*, 59, 253–279.

1990:

19. Krzemiński, W. (1990) Fossil Tipulomorpha (Diptera, Nematocera) from Baltic amber (Upper Eocene). Systematic position of *Pseudolimnophila* (*Baltilimnophila*) subgen. n. (Limoniidae, Hexatominae). *Polish Journal of Entomology*, 60, 51–58.
20. Krzemiński, W. (1990) Fossil Tipulomorpha (Diptera, Nematocera) from Baltic amber (Upper Eocene). Introductory part. Subfamily Lechriinae (Limoniidae). *Polish Journal of Entomology*, 60, 177–194.
21. Krzemiński, W. & Krzemińska, E. (1990) Tipulomorpha (Diptera) of the Middle Eocene deposits from Pesciara di Bolca near Verona (Italy). *Acta zoologica cracoviensia*, 33 (22), 495–499.
22. Krzemiński, W. & Zessin, W. (1990) The Lower Jurassic Limoniidae from Grimmen (GDR). *Deutsche Entomologische Zeitschrift, Neue Folge*, 37 (1–3), 39–43.
<https://doi.org/10.1002/mmd.4810370113>

1991:

23. Krzemiński, W. (1991) Anisopodidae, Blephariceridae, Limoniidae—Ptychopteridae. In: Razowski, J. (Ed.), *Checklist of animals of Poland*,

Vol. II. Ossolineum, Polish Academy of Sciences, Wrocław-Warszawa-Kraków.

24. Krzemiński, W. (1991) A first fossil *Helius* (Diptera, Limoniidae) from North America. *Acta zoologica cracoviensia*, 34 (1), 311–313.
25. Krzemiński, W. (1991) Revision of the fossil Cylindrotomidae (Diptera, Nematocera) from Florissant and White River, USA. *Paläontologische Zeitschrift*, 65 (3/4), 333–338.
<https://doi.org/10.1007/BF02989848>
26. Krzemiński, W. & Freiwald, A. (1991) *Toxorhina* (*Ceratocheilus*) *caucasiensis*, a new species from the Middle Miocene of Stavropol (northern Caucasus, USSR) (Diptera, Limoniidae). *Paläontologische Zeitschrift*, 65 (1/2), 153–155.
<https://doi.org/10.1007/BF02985780>
27. Freiwald, A. & Krzemiński, W. (1991) Cylindrotomidae (Diptera, Tipulomorpha) from the Paleogene of Bolshaya Svetlovodnaya (Eastern Asiatic USSR). *Paläontologische Zeitschrift*, 65 (3/4), 339–334.
<https://doi.org/10.1007/BF02989849>

1992:

28. Krzemiński, W. (1992) Triassic and Lower Jurassic stage of Diptera evolution. *Mitteilungen der schweizerischen entomologischen Gesellschaft*, 65, 39–59.
29. Krzemiński, W. (1992) Limoniidae (Diptera, Nematocera) from Dominican amber. I. Genus *Molophilus* Curtis, 1833. *Acta zoologica cracoviensia*, 35 (1), 107–111.
30. Krzemiński, W. (1992) The oldest Polyneura and their importance to the phylogeny of the group. *Acta zoologica cracoviensia*, 35 (1), 45–52.
31. Krzemiński, W. (1992) *Tipula* (*s. lato*) *eva* n.sp. from Cretaceous (East Asia)—the oldest representative of the family Tipulidae (Diptera, Polyneura). *Acta zoologica cracoviensia*, 35 (1), 43–44.
32. Krzemiński, W. & Gentilini, G. (1992) New information on Limoniidae from Monte Castellaro, Italy (Upper Miocene). *Acta zoologica cracoviensia*, 35 (1), 87–95.
33. Krzemińska, E., Krzemiński, W., Haenni, J.-P. & Dufour, C. (1992) *Les phantômes de l'ambre*. Musée d'histoire naturelle, Neuchâtel, Switzerland [In French; a book on fauna in the Baltic amber].

1993:

34. Krzemiński, W. (1993) The systematic position of *Stibadocerites europaeus* Zeuner from the Upper Cretaceous of Scotland (Diptera: Tipulomorpha). *Annals Upper Silesian Museum, Entomology, Supplement*, 1, 77–80.
35. Krzemiński, W. (1993) Fossil Tipulomorpha (Diptera, Nematocera) from Baltic amber (Upper Eocene). Revision of the genus *Helius* Lepeletier et Serville (Limoniidae). *Acta zoologica cracoviensia*, 35 (3), 597–601.
36. Krzemiński, W. & Lukashevich, L. (1993) Ansoorgiidae, a new family from the Upper Jurassic of Kazakhstan (Diptera, Ptychopteromorpha). *Acta zoologica cracoviensia*, 35 (3), 593–596.
37. Krzemiński, W. & Zwick, P. (1993) New and little known Ptychopteridae (Diptera) from the Palaearctic Region. *Aquatic Insects*, 15 (2), 65–87.
<https://doi.org/10.1080/01650429309361504>
38. Krzemińska, E., Blagoderov, V. & Krzemiński, W. (1993) Elliidae, a new fossil family of the infraorder Axymyiomorpha (Diptera). *Acta zoologica cracoviensia*, 35 (3), 581–591.
39. Blagoderov, V., Krzemińska, E. & Krzemiński, W. (1993) Fossil and Recent Anisopodomorpha (Diptera, Oligoneura): family Cramptonomyiidae. *Acta zoologica cracoviensia*, 35 (3), 573–579.
40. Starý, J. & Krzemiński, W. (1993) Additions to the list of Bulgarian Limoniidae and Pediciidae (Diptera). *Acta zoologica cracoviensia*, 35 (3), 569–572.
41. Starý, J. & Krzemiński, W. (1993) A new *Dicranota* from Bulgaria (Diptera, Pediciidae). *Acta zoologica cracoviensia*, 35 (3), 565–567.
42. Krzemińska, E., Krzemiński, W., Haenni, J.-P. & Dufour, C. (1993) *W bursztynowej pulapce*. Muzeum Przyrodnicze Instytutu Systematyki i Ewolucji Zwierząt PAN, Kraków, 141 pp. [In Polish].

1994:

43. Krzemiński, W., Krzemińska, E. & Papier, F. (1994) *Grauvogelia arzvilleriana* sp. n.—the oldest Diptera species (Lower/Middle Triassic of France). *Acta zoologica cracoviensia*, 37 (2), 95–99.
44. Krzemiński, W. & Krzemińska, E. (1994) A new species of *Cheilotrichia* (*Empeda*) from the Sakhalin amber (Diptera, Limoniidae). *Acta zoologica cracoviensia*, 37 (2), 91–93.
45. Krzemiński, W. & Krzemińska, E. (1994) *Procramptonomyia marianna*, a new species from the Upper Jurassic of Great Britain (Diptera, Anisopodomorpha, Procramptonomyiidae). *Acta zoologica cracoviensia*, 37 (2), 101–105.
46. Ansoorge J. & Krzemiński, W. (1994) Oligophryniidae, a Lower Jurassic dipteran family (Diptera, Brachycera). *Acta zoologica cracoviensia*, 37 (2), 115–119.
47. Szadziewski, R., Krzemiński, W. & Kutscher, M. (1994) A new species of *Corethrella* (Diptera, Corethrellidae) from Miocene Saxonian amber. *Acta zoologica cracoviensia*, 37, 87–90.

1995:

48. Krzemiński, W. & Ansoorge, J. (1995) New Upper Jurassic Diptera (Limoniidae, Eoptychopteridae) from the Solnhofen Lithographic

- Limestone (Bavaria, Germany). *Stuttgarter Beitrage zur Naturkunde, Ser. B*, 221, 1–7.
49. Ansoerge, J. & Krzemiński, W. (1995) Revision of *Mesorhynchus* Handlirsch and *Heterorhynchus* Bode (Diptera: Anisopodomorpha) from the Upper Liassic of Germany. *Paläontologische Zeitschrift*, 69 (1/2), 167–172. <https://doi.org/10.1007/BF02985982>
- 1996:**
50. Krzemiński, W. (1996) A revision of fossil *Megistocera* and *Brachypremna* (Diptera: Tipulidae). *Polish Journal of Entomology*, 65, 275–278.
51. Krzemiński, W. & Krzemińska, E. (1996) Revision of Laurentiptera gallica from the Lower/Middle Triassic of France (Mecoptera: Liassophilidae). *Polish Journal of Entomology*, 65, 267–274.
52. Krzemiński, W. & Krzemińska, E. (1996) [History of a fly]. *Kosmos*, 45 (4), 701–714 [In Polish].
- 1997:**
53. Krzemiński, W. & Judd, D. (1997) Family: Tanyderidae. In: Papp, L. & Darvas, B. (Eds), *Contributions to Manual of Palaearctic Diptera, Vol. 1*. Science Herald, Budapest, pp. 281–290.
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- 1998:**
55. Krzemiński, W. (1998) *Cyttaromyia frelloi*, sp. nov., first representative of the family Cylindrotomidae in Baltic amber (Diptera, Tipulomorpha). *Polish Journal of Entomology*, 67, 303–308.
56. Krzemiński, W. (1998) *Hexatoma (Eriocera) serafini*, sp. nov., from Baltic amber (Diptera, Limoniidae). *Polish Journal of Entomology*, 67, 309–310.
57. Krzemiński, W. (1998) *Limonia* (s. str.) *skalskii*, a new species of Limoniidae (Diptera) from the Baltic amber (Eocene). *Polish Journal of Entomology*, 67, 299–301.
58. Lukashевич, E., Krzemiński, W., Ansoerge, J. & Krzemińska, E. (1998) Revision of Eoptychopterinae (Insecta: Diptera, Eoptychopteridae). *Polish Journal of Entomology*, 67, 311–343.
- 1999:**
59. Krzemiński, W. & Jarzembowski, E. (1999) *Aenne triassica* sp. n., the oldest representative of the family Chironomidae (Insecta: Diptera). *Polish Journal of Entomology*, 68, 445–449.
- 2000:**
60. Krzemiński, W. (2000) New information on Limoniidae (Diptera: Tipulomorpha) from the Lower Cretaceous Santana Formation (northeastern Brazil). *Polish Journal of Entomology*, 69, 451–457.
61. Krzemiński, W. (2000) A new species and other representatives of the genus *Dicranomyia* (Diptera: Limoniidae) in the collection of the Museum of Amber Inclusions, University of Gdańsk. *Polish Journal of Entomology*, 69, 347–353.
62. Krzemiński, W. (2000) Fossil Tipulomorpha from Baltic amber (Upper Eocene): a new species of *Dactylolabis (Idiolabis)* (Diptera: Limoniidae). *Polish Journal of Entomology*, 69, 247–250.
63. Krzemiński, W. (2000) The Oligocene Tipulomorpha (Diptera) from Bolshaya Svetlovodnaya (Eastern Asia, Russia). *Polish Journal of Entomology*, 69, 239–245.
64. Krzemiński, W. & Ansoerge, J. (2000) On *Protobranchyceron* Handlirsch, 1920 (Diptera: Brachycera) from the Lower Jurassic of Germany. *Polish Journal of Entomology*, 69, 231–237.
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