

**In memoriam Dr Henrik Steinmann
(1932–2009)**

After a long illness, Dr HENRIK STEINMANN – one of the last erudite representatives of the entomologists’ generation hallmarked by Professor Dr ENDRE DUDICH’s name – passed away on 7 November, 2009, at the age of 78. Although we hoped that he would recover and enable us to keep appreciating his unique personality and unfaltering readiness to crack jokes, to our eternal grief, fate willed it otherwise!



Dr HENRIK STEINMANN
(1932–2009)

HENRIK STEINMANN was born in Budapest, on 27 March, 1932. Having earned his university degree he had a short two-year biology and chemistry teacher's career at the Secondary Grammar School of Hatvan. In 1957 he became an aspirant to candidate's degree (comparable to PhD degree) at the Natural History Museum. Dr ÁRPÁD SOÓS, one of the most outstanding zoologists of his time, was appointed the supervisor of his postgraduate studies. HENRIK STEINMANN evinced his extensive interest in entomology already at this early stage. The anatomy, and in particular the nervous system, of Orthoptera was his chosen subject-matter, something that was rather unorthodox in the 1950s not only in Hungary, but across Europe, actually. Later this became the subject of his candidate's thesis, as well. His thesis was met with recognition, and in 1961 he acquired both the academic degree of Candidate of Biological Science and the university doctor's title. Proudly, but modestly, did he keep telling his closest friends that he had been the youngest (as he turned 28 just then) holder of a candidate's degree back then. His studies of insect anatomy were highly appreciated both by Hungarian and international specialists. Being rich in detailed descriptions and illustrations, his work on the anatomy of insects' nervous system (presenting *Acrotylus insubricus* as a sample species of locusts) is of about 150 pages and was published in 1965 by the Hungarian Academy of Sciences in English as a volume of a series of mini-monographs. The Hungarian Entomological Society recognised his scientific work by awarding him the Bronze Grade of Frivaldszky Memorial Medal in 1964. As a rule, the Society awards this prize to young talents of entomology.

The acquisition of the candidate's degree cleared the way for his future career. His appointment to a research fellowship was just further reinforced by his being commissioned to look after the Natural History Museum's Orthoptera-Neuroptera Collection, one of the collections that had fallen victim to the conflagration of the 1956 Hungarian Revolution, actually. In addition to the research of insects' anatomy, he was tasked with remodelling and developing minor entomological orders as well as researching their taxonomy. He carried out this task with great enthusiasm. With a view to enriching the collection, he visited many a Hungarian region where he would pursue collecting work with a resoluteness that was so characteristic of him. Besides, he enriched the museum with valuable collections of insects through trips organized by the Academy on a contractual basis or taken with his family. So his trips took him to a number of Balkan states,

Germany, Italy, and Spain – and China and Korea, just to name two countries outside Europe. His trip to Korea is especially memorable because he joined the first Korean-Hungarian Zoological Expedition in 1970. Well, that is how the small entomological orders started evolving into a collection containing several tens of thousands of specimens that was destined to acquire international acclaim later on.

His appointment as the Head of the Natural History Museum's Department of Zoology in 1970 marked yet another rise in his career. As Dr ZOLTÁN KASZAB, the General Director, held both his scientific achievements and his personal qualities in great esteem, HENRIK STEINMANN's good relations to him were of utmost significance in terms of his career path. HENRIK STEINMANN, both in his manager's and staffer's capacity, always maintained good and humane relations to both his colleagues and the people reporting to him. He was on good, co-operative terms with everyone and never had any conflicts with, nor did he bear any grudges against, anyone. Many of his friends and acquaintances were of the opinion that he would have made a great diplomat. He just knew how to deal with people!

His research work was characterized by outstanding productivity. In total, nearly 170 entomological studies of his were published in Hungarian and foreign journals or in the form of books. The majority of the taxa (species, genera, subfamilies) he described belonged to the order of Dermaptera, and a smaller portion of them to the order of Orthoptera – Neuroptera. He described almost 300 new taxa. He wrote five booklets about small entomological orders for the series of *Magyarország Állatvilága (Fauna Hungariae)*, and a booklet as the general introduction to the class Insecta. These booklets are of 50–400 pages, each. In co-operation with Dr LAJOS ZOMBORI, his co-author, he published three separate volumes entitled “head”, “thorax”, “abdomen” that were drawn under the common title of “A rovar test alak-tani kifejezései” [Morphological Idioms of Insect Body]. The Hungarian Academy of Sciences published the same work in English, too, in two volumes of nearly 1,200 pages. As a shining proof of the book's success, the Chinese Academy of Sciences also published a Chinese version of this work. In 1999 – as a token of general recognition and by way of a “gap-filler” – the Berlin/New York-based Verlag Walter de Gruyter – one of the world's most honoured publishers of scientific works – published a 400-page version of the book under the title of “Dictionary of Insect Morphology”.

HENRIK STEINMANN topped off his scientific activity with two works. It was in the 1980s when he wrote his work that – in the form of a global monograph of about 2,200 pages (illustrated by nearly 3,500 figures) – gave a summary of the Dermaptera’s taxonomy, zoogeography and evolution. This monograph was also published by Verlag Walter de Gruyter as a part of the acclaimed and well-established series of Das Tierwelt/The Animal Kingdom between 1986 and 1993. The “World Catalogue of Dermaptera”, an addendum to the Monograph, was jointly published by the Hungarian Akadémiai Kiadó (Budapest) and the Dutch-British Kluwer Academic Publisher (Dordrecht and London) in 1989.

His other work of more than 1,000 pages, assuring him a global acclaim, was the “World Catalogue of Odonata” published by Verlag Walter de Gruyter in two volumes with a breakdown of Zygoptera and Anisoptera. The two volumes came out in 1997. The Order of Odonata is quite popular amidst entomologists; actually, there is a remarkably high number of specialists that have dealt or are dealing with this order the world over. Nevertheless, there are hardly any general works published on this subject so far. In the early 1990s it was HENRIK STEINMANN who undertook to put together the World Catalogue of this Order, which contains every piece of information that may further the cause of Odonata research.

HENRIK STEINMANN played a significant role in the public arena of Hungarian scientific life, as well. He acted as the Secretary of the Zoological Committee within the Hungarian Academy of Sciences for several years, and worked as the Chairman of the Environmental and Nature Conservation Committee in the 1970s. For nearly 20 years he was the editor of *Magyarország Állatvilága (Fauna Hungariae)* series, the *Folia entomologica hungarica* and *Acta zoologica Academiae scientiarum Hungaricae*.

His versatile zoological erudition superbly manifested itself by the way he propagated scientific knowledge. He would write articles for *Élet és Tudomány* and *Búvár*, these Hungarian weeklies, in the 1960s and ‘70s. He had four books published on *Architects in Animal Kingdom* (1978), *The Animals’ Weapons* (1979), *Animals’ Mating* (1980), and *Partners and Enemies in Animal Kingdom* (1985). Each of them is a 200–300-page volume propagating general knowledge.

When assessing HENRIK STEINMANN’s scientific achievements, we can state that he was undoubtedly one of the most cultivated Hungarian

zoologists of his time. He was the very first authority whose World Monograph on an entomological order was published in four volumes in the renowned *Das Tierwelt/The Animal Kingdom* series, as mentioned above. His merits were recognised – while Hungarian zoological circles seem to have failed to become aware of its actual value yet. The Hungarian Academy of Sciences recognised his work of international significance by awarding him the Chairman’s Prize and the “Nivo” Prize. In 1987 he was presented with the title of the Doctor of Biological Sciences.

To the detriment of the Hungarian entomology, he left the Department of Zoology in 1987 and joined the Hungarian Post Co.’s Publishing House that issued specialist books. His move was motivated by a need to provide for his family: That was how he wanted to complement his active years’ income, and even more so, to create a more solid foundation for his years of retirement.

His family life was always exemplary. He got married in 1958: his 51-year long married life with his wife, VILMI, remained unclouded and characterized by a never-ending loyalty and love throughout their common life that was spent in their garden-enclosed family house in Kispest (a district of Budapest). They brought up GYÖRGYI, their only daughter, with touching parental care. HENRIK STEINMANN, the husband and father, can serve as a role model for how to build a family. His excellent skills of coping with the technical problems around the house just made his private life richer. It was he himself who performed most of the electrical fittings around his dwelling and holiday home. He would often talk about his “preference for wood-work”: He built his self-designed timber house together with his father, and he himself prepared the wood panelling of his holiday home at Lake Balaton. Nor was a helping hand needed for the wooden frame in his home library. He was an able welder, too: The metal fence of his holiday home as well as the metal awning above the main entrance do credit to his welding skills. Nor would he rely on anyone when it came to fixing minor defects in his car. The garden of his Kispest house offered a lot of different annual and perennial plants to regale our eyes. Visitors to his home had the pleasure admire his parrot and cockatoo farm (needless to say that he prepared the aviaries himself). In his garden and in fish tanks he kept a number of colourful fish species of bizarre shapes. No help had to be solicited either when it came to binding books for his library. He would often take motor tours with his family all over Europe. They would almost

always pitch their tent at camp sites: he was very resourceful in selecting and using camping paraphernalia.

The end of HENRIK STEINMANN's life on earth is at the same time the end of a high-value life path. His mortal remains were put to eternal rest in the undercroft of St. Gellért's Chapel on 26 November, 2009.

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Complete list of scientific publications of Dr Henrik Steinmann

- 1958a: Rovarok preparálásának merevítőlakkos módszere. (Versteifungslackmethode zum Präparieren von Insekten.) – *Folia entomologica hungarica* (series nova) **11**: 267–274.
- 1958b: Kiegészítő megjegyzések Dr. Nagy Barnabás “Ökológiai és faunisztikai adatok a Kárpátmedence sáskáinak ismeretéhez” című cikkéhez. (Ergänzende Bemerkungen zu dem Artikel “Ökologische und faunistische Angaben zur Kenntnis der Heuschrecken des Kapatzenbeckens”, von Dr. B. Nagy.) – *Folia entomologica hungarica* (series nova) **11**: 511–512.
- 1959a: Magyarországi szitakötők repülési idejének vizsgálata. (An examination of the flight periods of dragonflies in Hungary.) – *Folia entomologica hungarica* (series nova) **12**: 37–59.
- 1959b: Szitakötők magyarországi elterjedésének vizsgálata. (Untersuchungen über die Verbreitung der Libellen-Arten in Ungarn.) – *Folia entomologica hungarica* **12**: 427–460.
- 1959c: Egyenesszárnyú rovarok (Orthoptera) központi idegrendszerének feltárása. The Exposure of the central nervous system of the Orthopterans. – *Folia entomologica hungarica* **12**: 539–546.
- 1960a: On the cephalic nervous system of Orthopterous insects (Orthoptera). – *Annales historico-naturales Musei nationalis hungarici* **52**: 217–227.
- 1960b: Egyenesszárnyú rovarok (Orthoptera) központi idegrendszerének mérőpontjai. (Points for measurements within the nervous system of Orthopteroid insects.) – *Folia entomologica hungarica* **13**: 1–10.
- 1960c: Budapest szitakötőfaunája. (Die Odonaten-Fauna der Hauptstadt Budapest.) – *Folia entomologica hungarica* (series nova) **13**: 355–379.

- 1960d: Adatok a Phaneroptera falcata Poda (Orthoptera, Tettigoniidae) központi idegrendszerének ismeretéhez. (Beiträge zur Kenntnis des Zentralnervensystems von Phaneroptera falcata Poda (Orthoptera, Tettigoniidae).) – *Folia entomologica hungarica* (series nova) **13**: 459–466.
- 1960e: Egyenesszárnyú rovarok (Orthoptera) központi idegrendszerének kiemelése, totális festése és összehasonlító vizsgálatának módszerei. (La distraction du système nerveux central des Orthoptères, sa coloration totale et les méthodes de son examen comparatif.) – *Állattani Közlemények* **47**(3–4): 141–149.
- 1961a: On the central nervous system of the prothorax of Orthopterous insects (Orthoptera). – *Annales historico-naturales Musei nationalis hungarici* **53**: 305–309.
- 1961b: Adatok az Ehippiger a ehippiger Fieb. (Orthopt., Tettigon.) központi idegrendszerének ismeretéhez. (Beiträge zur Kenntnis des Zentralnervensystems von Ehippiger a ehippiger Fieb. (Orthoptera, Tettigoniidae).) – *Folia entomologica hungarica* (series nova) **14**: 111–118.
- 1961c: Adatok a kőbányai Guttmann-tó szitakötő faunájához. (Data to the dragonfly fauna of Lake Guttmann in Kobánya, Budapest.) – *Folia entomologica hungarica* (series nova) **14**: 387–397.
- 1962a: On the central nervous system of the meso- and metathorax of Orthopterous insects. – *Annales historico-naturales Musei nationalis hungarici* **54**: 237–254.
- 1962b: Phylogenetic and systematic considerations based on the comparative anatomical study of the central nervous system of Orthopterous insects. – *Acta zoologica Academiae scientiarum hungaricae* **8**(1–2): 151–160.
- 1962c: A magyarországi szitakötők faunisztikai és etológiai adatai. (Faunistical and ethological data of Hungarian dragonflies.) – *Folia entomologica hungarica* (series nova) **15**: 141–198.
- 1962d: The Tetrigidae of Afrika (Orthoptera). – *Folia Entologica Hungarica* (series nova) **15**: 303–326.
- 1963a: Raphidiopterological studies I. Navasana gen. n. from Hungary, Harraphidia gen. n. from Morocco, new Lesna Nav. and Subilla Nav. species from Europe. – *Acta zoologica Academiae scientiarum hungaricae* **9**(1–2): 183–198.
- 1963b: New species of the Genus Acrida L. (Orthoptera) from Africa and Asia. – *Acta zoologica Academiae scientiarum hungaricae* **9**(3–4): 403–427.
- 1963c: The history of the anatomical and morphological studies concerning the central nervous system of Orthopterous insects. – *Folia entomologica hungarica* (series nova) **16**: 121–135.
- 1963d: Magyarország hangyalesői (Neuroptera). (Myrmeleontidae of Hungary.) – *Folia entomologica hungarica* (series nova) **16**(12): 211–226.
- 1964a: Raphidiopterological studies II. New Raphidia L. and Rhaphidilla Nav. species from Europe and Asia. – *Acta zoologica Academiae scientiarum hungaricae* **10**(1–2): 199–227.
- 1964b: Some new Tetrigid species and subspecies from Asia (Orthoptera: Tetrigidae). – *Acta zoologica Academiae scientiarum hungaricae* **10**(3–4): 457–468.

- 1964c: The *Chrysopa* species (Neuroptera) of Hungary. – *Annales historico-naturales Musei nationalis hungarici* **56**: 257–266.
- 1964d: Ergebnisse der zoologischen Forschungen von Dr. Z. Kaszab in der Mongolei 20. Tetrigidae und Acrididae (Orthoptera). – *Folia entomologica hungarica* (series nova) **17**: 381–384.
- 1964e: Szitakötő lárvák. Larvae Odonatorum. – In: *Magyarország Állatvilága (Fauna Hungariae)*, V, 7. Akadémiai Kiadó, 48 pp.
- 1965a: Neuroanatomical studies on the central nervous system of *Acrotylus insubricus* Scop. (Orthoptera). – *Studia Biologica Academiae Scientiarum Hungaricae* **2**: 1–142.
- 1965b: New *Oedaleus* Fieb. and *Bryodoma* Fieb. (Orthoptera) species from Central and East Asia. – *Annales historico-naturales Musei nationalis hungarici* **57**: 223–228.
- 1965c: The Oedipodidae (Orth.) of Western, Central and East Africa. – *Folia entomologica hungarica* (series nova) **18**: 93–122.
- 1965d: The zoological results of Gy. Topál's collectings in South Argentina, 19. Neuroptera, Hemerobiidae. – *Folia entomologica hungarica* (series nova) **18**: 567–574.
- 1965e: New *Chrotogonus* Serv. species from East and Central Asia (Orthoptera – Acrididae). – *Acta Entomologica Musei Nationalis Pragae* **36**: 293–302.
- 1965f: New *Oedipoda* Latr. species and subspecies from Central and West Asia (Orthoptera, Acrididae). – *Reichenbachia* **6**(1): 1–13.
- 1965g: Chrysopidae, Hemerobiidae. Ergebnisse der zoologischen Forschungen von Dr. Z. Kaszab in der Mongolei (Neuroptera). – *Reichenbachia* **7**(20): 179–190.
- 1966a: New Phaneroptera Serv. and Nephoptera Uv. species (Orthoptera: Tettigoniidae). – *Acta zoologica Academiae scientiarum hungaricae* **12**(3–4): 409–417.
- 1966b: A new *Asiomethis* Uv. (Orthoptera, Pamphaginae) from Central Asia. – *Annales historico-naturales Musei nationalis hungarici* **58**: 281–283.
- 1966c: *Asiomethis tauritus flavipes* ssp. n. (Orth., Pamphigidae) from Kasahstan. – *Folia entomologica hungarica* **19**: 143–147.
- 1967a: 19. rend: Tevenyakú fátyolkák. 20. rend: Vizifátyolkák. 21. rend: Recésszárnyúak és 22. rend: Csőrös rovarok. Ordo 19: Raphidioptera. Ordo 20: Megaloptera. Ordo 21: Neuroptera et Ordo 22: Mecoptera. – In: *Magyarország Állatvilága (Fauna Hungariae)*, XIII, 14. Akadémiai Kiadó, Budapest, 204 pp.
- 1967b: Magyarországi álkérészek (Plecoptera) repülési ideje. (The Flying Period of Hungarian Plecoptera.) – *Folia entomologica hungarica* (series nova) **20**: 197–202.
- 1967c: A Magyar Rovartani Társaság tagjainak névjegyzéke. [List of names of the members of the Hungarian Entomological Society.] – *Folia entomologica hungarica* (series nova) **20**: 657–686. (Co-author Z. MÉSZÁROS)
- 1967d: A study on the cephalic measurement values on the species of European Odonata families. – *Deutsche Entomologische Zeitschrift* (Neue Folge) **14**(3–4): 265–275.
- 1967e: 99. Tetricidae und Acridiidae. Ergebnisse der zoologischen Forschungen von Dr. Z. Kaszab in der Mongolei (Orthoptera). – *Reichenbachia* **9**(13): 107–119.
- 1967f: New Palaearctic *Atractomorpha* Sauss. and *Pyrgomorpha* Serv. species (Orthoptera, Acrididae). – *Acta Entomologica Musei Nationalis Pragae* **37**: 565–575.

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- 1968c: 153. Tetricidae und Acridiidae. Ergebnisse der zoologischen Forschungen von Dr. Z. Kaszab in der Mongolei (Orthoptera). – *Reichenbachia* **11**(22): 239–248.
- 1968d: The genus *Sphingonotus* Fieb. (Orthoptera) in Kazakhstan (USSR). – *Annales Zoologici* **26**(10): 281–296.
- 1969a: The Tetricidae (Orthoptera) of the Neogaea. – *Folia entomologica hungarica* (series nova) **22**: 383–404.
- 1969b: Vizsgálatok a *Locusta migratoria manilensis* Meyen (Orth., Acrididae) központi idegrendszerén. (Studies on the central nervous system of *Locusta migratoria manilensis* Meyen (Orth., Acrididae).) – *Folia entomologica hungarica* (series nova) **22**: 425–437.
- 1970a: Rovarak. Insecta. – In: *Magyarország Állatvilága (Fauna Hungariae)*, V, 1. Akadémiai Kiadó, Budapest, 40 pp.
- 1970b: 25. rend: Tegzesek. Ordo 25: Trichoptera. – In: *Magyarország Állatvilága (Fauna Hungariae)*, XV, 19. Akadémiai Kiadó, Budapest, 400 pp.
- 1970c: Check-list of the Tetricidae (Orthoptera) of the Oriental Faunal Region. – *Acta zoologica Academiae scientiarum hungaricae* **16**(1–2): 215–240.
- 1970d: A comparative anatomy of the insect head I. Muscles and nerves of the regio verticalis, r. antennalis and r. labralis. – *Folia entomologica hungarica* (series nova) **23**: 113–124.
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- 1970f: A Magyar Rovartani Társaság tagjainak névjegyzéke. (Membership list of the Hungarian Entomological Society.) – *Folia entomologica hungarica* (series nova) **23**: 411–428. (Co-author Z. MÉSZÁROS)
- 1970g: Könyvismertetés (Buchbesprechung). K. Harz: Orthoptera of Europe vol. I (Series Entomologica vol. 5). – *Folia entomologica hungarica* (series nova) **23**: 446.
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- 1971a: The Tetricids of the Nearctic Subregion (Orthoptera). – *Acta Zoologica Academiae Scientiarum Hungaricae* **17**(3–4): 381–385.
- 1971b: Zoological collectings by the Hungarian Natural History Museum in Korea, I. A report on the collecting of the first expedition. – *Folia entomologica hungarica* (series nova) **24**: 21–46. (Co-author S. MAHUNKA)
- 1971c: A comparative anatomy of the insect head. III. Muscles and nerves of the regio labialis and r. cervicalis. – *Folia entomologica hungarica* (series nova) **24**: 211–218.
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- 1971e: Állattani gyűjtőúton Koreában. [A collecting trip in Korea.] – *Állattani Közlemények* **58**(1–4): 117–123 + 16 photos. (Co-author S. MAHUNKA)

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- 1971g: 217. Chrysopidae und Hemerobiidae III. Ergebnisse der zoologischen Forschungen von Dr. Z. Kaszab in der Mongolei (Neuroptera). – *Reichenbachia* 13(28): 251–262.
- 1972a: Keys to the families and genera of European Annulipalpia (Trichoptera). – *Folia entomologica hungarica* (series nova) 25: 445–468.
- 1972b: A comparative anatomy of insect head. IV. Muscles and nerves of the sympathal system. – *Folia entomologica hungarica* (series nova) 25: 481–491.
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- 1973b: Identification keys to Integripalpia (Trichoptera) of the European families, subfamilies and genera I. – *Folia entomologica hungarica* (series nova) 26(1): 113–143.
- 1973c: Zoogeographical checklist of World Dermaptera. – *Folia entomologica hungarica* (series nova) 26(1): 145–154.
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- 1974e: Identification keys to Integripalpia (Trichoptera) of the European families, subfamilies and genera II. – *Folia entomologica hungarica* (series nova) 27(1): 193–209.
- 1974f: A revision of the Dermaptera in the “A. Koenig” Museum, Bonn. – *Folia entomologica hungarica* (series nova) 27(2): 187–204.
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- 1975b: A survey of the Neotropical Vostox Burr species (Dermaptera: Labiidae). – *Acta zoologica Academiae scientiarum hungaricae* 21(3–4): 435–445.
- 1975c: Brindleiana atlas gen. et sp. n. from SE Asia and taxonomical notes on Allodahliinae (Dermaptera, Forficulidae). – *Annales historico-naturales Musei nationalis hungarici* 67: 71–76.
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