

**Fifty years of scientific research by Professor Józef BANASZAK,
the honorary member of the Polish Entomological Society,
on the 70th anniversary of his birth**

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On 28 March 2016, an observation of an early bumblebee (*Bombus pratorum* (LINNAEUS, 1761)) by Professor Józef BANASZAK, eminent expert on bees and ecology, began his 51st year of research on bees.

Józef BANASZAK was born on 19 March 1947 in Lednogóra near Gniezno, and even in childhood came to be fascinated by wildlife. His particular interest in insects was inspired by a book by Professor Jan KARPÍŃSKI, entitled *In the Land of Wonders of Jean Henri FABRE* (in Polish: *W krainie dziwów Jean Henri FABRE'a*). Thanks to this book, he learned about the work of the 19th-century naturalist, who was one of the first to study not only the biology but also the behaviour of insects. In secondary school, with an insect net made from an old curtain, Józef caught his first specimens: butterflies and beetles. He finished school in 1965 and entered the Faculty of Biology at Adam Mickiewicz University, Poznań, Poland. His interest in bees began in his first year, in the spring of 1966, after he read a short note on the digger bee, *Anthophora plagiata* (ILLIGER, 1806), which builds its nests in loess and clay escarpments as well as in clay buildings. The author, Zygmunt PNIEWSKI, noted that the species is very rare, but the young biologist, based on a photo illustrating the short note, discovered that the bee was nesting in a wall of his family house! This discovery of a new locality of *A. plagiata* and the opportunity to write his first publication about his discovery resulted in his later focus on bees instead of coleopterans, which he had earlier favoured. He then got in touch with the author of the short note, received from him his first entomological pins and an insect storage box, and learned the basics of insect preservation.

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The first bees caught by the future professor are labelled with the date 24 April 1966. That spring was the beginning of his more than 50 years of research on bees.

In 1970, after graduating with an MSc in Biology (specializing in Zoology), he was employed as an assistant (and from 1973 as a senior assistant) at the Institute of Veterinary Medicine, Department of Research on Diseases of Useful Insects, in Swarzędz near Poznań. In view of the types of research conducted at the Institute, related to the honey bee and its diseases, he investigated the diversity and role of the fauna accompanying honey bee families. But he did not give up his main interest, and continued research on the fauna of wild bees in several regions of Poland: Wielkopolska, western Pomerania, the Vistula valley, and the Bieszczady Mts. In 1975, he earned a PhD in Biology (specializing in Zoology) and was employed as an assistant professor at the Department of Agricultural and Forest Biology of the Polish Academy of Sciences in Poznań (formerly Department of Agricultural Biology of the Institute of Ecology). There he conducted research on benthic fauna in various types of water bodies and watercourses in the agricultural landscape, with particular reference to dipteran larvae of the family Chironomidae. That research allowed him to describe the strategy of colonization of watercourses and standing waters by benthic organisms, and to show that running waters increase the biodiversity of the agricultural landscape to a greater extent than small bodies of standing water.

In that period, he also started to study faunistic changes and resources, and the regularity of occurrence of pollinating insects in the landscape. These were the first large-scale investigations of species diversity and density of pollinating insects in Poland. For the first time, bee densities were assessed in natural habitats, not only in crop fields. The main objective was to improve the understanding of Poland's fauna. The research projects initiated in that period provided rich data on the contemporary bee resources, especially in the Wielkopolska-Kujawy Lowland, the Masovian Lowland, the Polish coast of the Baltic Sea, the lower Vistula valley, the south-eastern part of the country, and central Poland. Bee studies were also conducted in many national parks (Wolin NP, Wigry NP, Wielkopolska NP, Kampinos NP, Narew NP, Bieszczady NP, "Bory Tucholskie" NP, Drawa NP and Białowieża NP) and landscape parks (Masurian LP, Vistula LP, General Dezydery Chłapowski LP and Lednica LP). The results of those studies and of reports by other authors were summarized in a catalogue of bee species (Apiformes) of Poland published in 1991 and updated in 2000 and 2004. All this enabled him to compile a red list of Apiformes of Poland in 1992 (updated in 2002), and to select and describe threatened species of Aculeata (Apiformes, *Scolia*, *Parnopes*) in the Polish Red Data Book of Animals (2004).



Phot. 1. Prof. Józef BANASZAK (Phot. FOTO-RAMA Bydgoszcz).

The Professor's research into bee ecology on a landscape scale also enabled him to develop a general strategy to protect pollinating insects in the agricultural landscape. The strategy emphasizes the significance of a mosaic of diverse landscape for the presence and proper functioning of those animals. The results of his studies were highly valued and are still cited in the international literature.

The monitoring initiated in 1975, serving to assess changes in the fauna of pollinating insects in various habitat types, is still being continued. It is conducted in 10-year cycles on permanent plots with well-defined plant cover. The Professor's important achievements also include developing and publishing a new method for the quick and precise assessment of densities of pollinating insects in various types of plant communities. This method makes it possible to estimate the natural resources of bees and compare quantitative changes taking place in various types of landscape (1980). It has been employed by entomologists not only in Poland but also in other countries of Europe.

In parallel to his studies of Polish fauna, Professor BANASZAK has also assessed bee resources in other parts of Europe. He has undertaken many research expeditions, for example, to Romania (1984, 1985), Bulgaria (1986, 1988, 1990), Lower Saxony and the Frisian Islands in Germany (1987), Belgium, Provence, Corsica, and the Pyrenees in southern France (1993), as well as Sardinia in Italy (2000).

In 1989, he was employed as an assistant professor and head of the Department of Environmental Protection within the Chair of Environmental Protection and Physical Education at Kazimierz Wielki University in Bydgoszcz (known then as a Teachers' College and later as the Bydgoszcz Academy). In 1990 he was employed there as an associate professor, and in 1991 as a full professor in the field of natural sciences. At that time he became the head of the Chair of Environmental Protection and Physical Education, later transformed by him into the Chair of Biology and Environmental Protection.

In the early 1990s, the Professor initiated and coordinated the cooperation of an informal research group, known as an Interdisciplinary Landscape Ecology Research Team. The team investigated the role of forest islands in the agricultural landscape. Several years of studies by specialists in various fields – geomorphology, soil science, botany, phytosociology, entomology, acarology, malacology, arachnology, herpetology, and mammalogy – formed a basis for a better understanding of the mechanisms of how refuge habitats and wildlife corridors function in an agricultural landscape. The extremely interesting results of the studies were presented at international and national conferences and described in many articles. The outcome of this project is summarized in a monograph that he edited, entitled *Ecology of Forest Islands*, which was published both in Polish (1998) and in English (2000). In 2002, it was followed by another monograph edited by the Professor, entitled *Habitat Islands: Biodiversity and Attempts at Typology*.

In the late 1990s, Professor BANASZAK began intensive cooperation with distinguished experts from other European research centres. The cooperation resulted in the publication of books on bee taxonomy and systematics: monographs on the European Megachilidae, Halictidae, and Andreninae of the Palaearctic (two volumes), and two keys to the identification of the Megachilidae and Halictidae in the series "Keys to the Identification of

Insects in Poland”. Another important publication is the book *Changes in Fauna of Wild Bees in Europe* (BANASZAK 1995).

In 2010, the Professor published the book *Bees and Forest*. This represented a completely new direction of research, investigating the unusual phenomenon of the introduction of honey bees to forests in the Middle Ages, followed by their transfer to other habitats in the 18th century. This was a kind of biological experiment: the transfer of bees from forests to apiaries near houses, to the open habitats of arable fields. Simultaneously, the ecological niches of honey bees in forests were occupied by other pollinating insects, which markedly affected the forest ecosystem.

During his 50 years of scientific research, Professor J. BANASZAK made a substantial contribution to knowledge about Polish and European bee fauna. He has authored more than 350 publications, including around 120 original reference works and scientific articles, mostly in the field of entomology and ecology, in Polish and foreign journals. He is also the author, co-author or editor of 51 books. His work has earned him an important position in the international scientific community. He has been cited both in Poland and abroad by renowned researchers. Moreover, two species have been named after him: *Trichouropoda banaszaki* WIŚNIEWSKI & HIRSCHMANN, 1988 (Acari) and *Sphécodes banaszaki* NOBILE & TURRISI, 2004 (Apiformes, Hymenoptera).

When considering the activity of Professor BANASZAK over the past 50 years, his organizational skills should also be taken into account. As Rector of the Teachers’ College (1996–1999) he succeeded in transforming it into the Kazimierz Wielki Academy of Bydgoszcz. Thus he made a significant contribution to its later transformation into Kazimierz Wielki University. He also initiated the creation of the Institute of Biology and Environmental Protection, as well as new courses of studies: Biology (1993) and Environmental Protection (2007). Besides this, he was involved in the organization of the Museum of Diplomacy and Polish Exiles (1999). In 2005–2010 he was the Editor-in-Chief of the *Polish Journal of Entomology*. The Professor is also an honorary member of the Polish Entomological Society. Moreover, in 2002 he established the Wierzenica Professors’ Club, which is an informal forum for discussions between scientists and other creators. As a result of the meetings and discussions of scientists, humanists, and artists, several books edited by J. BANASZAK have been published in the Library of the Wierzenica Professors’ Club. He is also the author of several volumes of poems, memoirs, and diaries.

Finally, for me personally, Professor Józef BANASZAK is obviously my Dad, who often took me and my brother Dominik with him on his field trips. We would play in the meadow while he was catching bees, which later – arranged in even rows – filled insect storage boxes and occupied cabinets in our home. It was my Dad who bought me my first insect net, and I will never forget the first insect I caught in it. Later on, when I was writing my MSc thesis on the bee from which the whole story began (*Anthophora plagiata*), my Father

also became my tutor and introduced me into the world of bees, this extremely interesting group of insects of such great importance to humankind.

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