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IN MEMORIAM: MAREK DOKTOR (1949–2020)

Fig. 1. Marek Doktor (1949–2020).

Marek Doktor (Fig. 1) was born on June 9th, 1949, in Biała Krakowska. Shortly thereafter, his family moved to Kraków and here he attended the Tadeusz Kościuszko Comprehensive High School. In 1967, he enrolled as a full-time student at the AGH University of Science and Technology, in the Department of Geological Exploration and studied the Mining Geology degree programme. He graduated *cum laude* in 1972 with an Engineering Master's degree in Mining Geology, having specialized in Geological and Chemical Resources. He carried out his master's research under the supervision of Prof. Dr. Ing. Józef Poborski, and his thesis was entitled *"Salt Deposits in the area of Wojnicz on the Dunajec River"*. The results of his thesis appeared in print shortly afterwards. In the same year, he took up a position in the Institute of Geological Sciences of the Polish Academy of Sciences in Kraków, where he earned his Ph.D. in 1980. His Ph.D. dissertation was entitled *"Sedimentation of the gravel sediments in the Miocene of the Carpathian Foredeep"* and his supervisor was Prof. Dr. Hab. Ryszard Gradziński. Marek was awarded his habilitation diploma in 2009 by the Faculty of Geology, Geophysics and Environmental Protection, AGH, for his dissertation, entitled *"Conditions of accumulation and sedimentary architecture of the Cracow Sandstone Series (upper Westphalian) Upper Silesia Coal Basin, Poland*" and on the basis of his entire teaching and research portfolio. His habilitation thesis was published in 2007 in the *Annales Societatis Geologorum Poloniae,* and in 2008 it received the Ludwik Zejszner Award of the Polish Geological Society.

Immediately after his graduation, Marek Doktor took up a position at the Polish Academy of Sciences, where he remained employed until 2008. At first, he was an Assistant in the Laboratory and Museum of Younger Structures at the Polish Academy in Krakow, where he began his studies of clastic sediments. After earning his PhD degree, he was promoted to the position of Senior Assistant in the Dynamic Geology Department at the Polish Academy, which later became a Research Centre of the Institute of Geological Sciences of the Polish Academy of Sciences in Kraków. From 1998 to 2006, he was the Deputy Director of the Research Centre. In 2004, he took up an Adjunct position in the Department of General and Mathematical Geology in the Faculty of Geology, Geophysics and Environmental Protection at the AGH University of Science and Technology. The department later became known as the Department of General Geology, Environmental Protection and Geotourism, and currently is the Department of General Geology and Geotourism. In 2012, he was awarded the title of University Professor. From 2011 until 2017, he was Head of Department. From 2012 until 2020, Marek Doktor was also a Professor in the Institute of Humanities and Highland Tourism of the National Higher Professional Training School, in Nowy Targ.

Marek Doktor's professional interests were largely divided between three topics: the sedimentology of modern

Fig. 2. Rest during field work on Seymour Island, Western Antarctica (1986), phot. Szczepan Porębski.

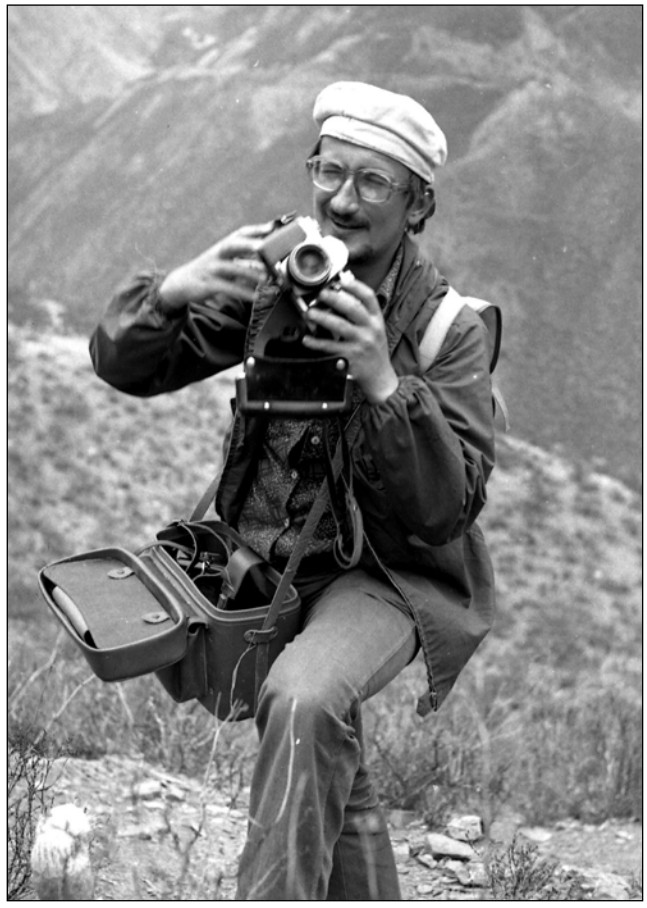

Fig. 3. Marek Doktor during an expedition in the Peruvian Andes (1976), phot. Teresa Walendziak.

and ancient clastic sediments, the geology of archaeological artifacts and geotourism.

His research at the Polish Academy of Sciences largely focused on topics connected with the Miocene gravel deposits that are found near the contact with the Polish Carpathians. His great achievement was the reconstruction of a general model for shallow-water environments with fluvial supply. This work formed the basis for his PhD degree. As a follow-up to his dissertation research, Marek Doktor undertook a sedimentological analysis of the Miocene clastic deposits of the Dębowiec Conglomerate, in which he interpreted its depositional environment and depositional mechanisms. Another area of interest was the Upper Silesian Coal Basin. In collaboration with colleagues at the Polish Academy of Sciences and at AGH, he carried out a series of detailed investigations on the coal-bearing succession. In addition to the classical methods of investigation, he introduced mathematical and computer-based modelling methods. His genetic and structural analysis, based on outcrop sections and boreholes, provided the basis for generating a synthetic depositional framework. He embarked on a study of the mudstone series, in which he identified depositional environments and fluvial depositional mechanisms as well as peat bogs that had been subject to compaction. He made use of computerized data bases as well as the innovative computer application *Facies*. For the work carried out on the mudstone facies, the research team in which Marek participated was granted an award from the Secretary of the Polish Academy of Sciences. Later, Marek Doktor expanded the scope of his research to the outcrop analogue of the paralic series of the Upper Silesian Coal Basin. On the basis of detailed sedimentological and facies analyses, he was able to reconstruct the spatial architecture of these series and interpret the depositional processes and environmental settings. He paid particular attention to the Carboniferous peat bogs. The results of these studies were published in a series of articles that served as the basis for his habilitation.

In parallel with his studies on the Upper Silesian Coal Basin, Marek Doktor carried out sedimentological studies of the coal-bearing deposits of Miocene age. As part of this research, he described the origin of fan deltas and fresh-water limestones in the Bełchatów brown coal deposits. In the 1980s, Marek Doktor took up the study of modern sedimentological processes. Together with a team of researchers from the Institute of Geological Sciences of the Polish Academy of Sciences, he carried out a study of a delta in Płociczno Lake and worked out a model for its evolution. In later years his model was incorporated into a general genetic model for this type of sedimentation. At the end of the 1990s, Marek Doktor studied a braided section of the Narew River in the Narwiański National Park. As a result, the factors controlling the development of an anastomosing river were quantified and a standard morphological model was produced, explaining anastomosing river segments.

Fig. 4. Marek Doktor, visiting Gubałówka (2017), phot. Elżbieta Słomka.

Fig. 5. Marek Doktor with Iwona, his wife on the conference field trip in Moravia (1993), phot. Anna Świerczewska.

In collaboration with Prof. Krzysztof Birkenmajer, Marek Doktor also undertook sedimentological studies in western Antarctica. He took part in three Antarctic expeditions organized by the Polish Academy of Sciences, in 1983–1984, 1987–1988 and 1990–91 (Fig. 2). He carried out exploratory research, during which he analyzed the sedimentary series of the Trinity Peninsula Group in Paradise Harbour, the Miers Bluff Formation on Livingstone Island, and the La Meseta Formation on Seymour Island, in the Weddell Sea.

Another topic of interest was the use of geological analyses for the study of archaeology. In 1976, he travelled in the company of several archaeologists from the Jagiellonian University on a half-year expedition to the Huaur River valley in the Peruvian Andes. He took part in excavations under the project, "Huaura-Checras", with the goal of analysing the pre-dynastic period (Fig. 3). He analyzed the geological materials used in artefacts of the period and studied the sedimentology of the deposits that were uncovered by the archaeologists. In later years, he also collaborated with archaeologists, who carried out excavations in the Polish Carpathians.

At the beginning of the 21st century, Marek Doktor took up an interest in problems associated with geotourism and in the protection of the natural environment. He was one of the founders and early promoters of the subject of geotourism, both on a national and an international level. He worked out a theoretical basis for the study of geotourism and undertook an inventory of geological objects that are of interest to geotourists, established a degree programme, and a means to assess the importance of geotourism for stimulating regional development (Fig. 4). He took part in an effort to catalogue the nation's geological heritage and wrote articles on geotourism methodology. He was the author of the guide, "*Geostrada Sudecka*", and organized conferences on the subject of geotourism. He participated in efforts to raise awareness of our diverse geological heritage and its protection. He initiated efforts to protect unique geological features and preserve their natural history. In recent years, he played an active part in efforts to establish an international geopark in the Pieniny Klippen Belt. This effort still has not achieved fruition.

The results of Marek Doktor's research were published in over 100 scientific publications in national and international journals. Marek Doktor was also author and co-author of six books. His publications have been cited many times by other authors. He co-organized eight international scientific conferences and participated in over 50 such conferences (Fig. 5). He participated in eight research projects, three as principal investigator.

Marek Doktor was also active in academic and scientific organizations and supported their activities. He belonged to several professional societies. Since 1973, he was a member of the Geological Society of Poland, from 1996 served on the Committee of the Geographical and Nautological Olympics, and since 2009 was a member of the Polish Geographical Society. From 1984 to 2008, he was a member of the Polish Polar Studies Committee and served as the first President of that Committee. In 2007, he was involved in establishing an International Association for Geotourism, which functioned until 2019. In 2011–2012, he served on a panel of Earth Sciences experts in the Polish National Science Foundation.

His expertise in organizational matters is evident in his membership of editorial boards of scientific journals. From 2001–2012, he was the Secretary and a member of

Fig. 6. Marek Doktor during field course for geotourism students in Austria (2005), phot. Sławomir Bębenek.

the Editorial Board of the *Annales Societatis Geologorum Poloniae*. From 2004 until his death, he was a member of the Editorial Board of *Geotourism*. He was the journal's Secretary until 2012 when he assumed the role of Editor-in-Chief. From 2002 he was an Editorial Board member of the *Biuletyn Polarny,* and from 2002–2006 served as the journal's Secretary. Since 2010 he was an Editorial Board member of the journal *Acta Geoturistica*.

Marek Doktor's work at AGH and TPPWSZ concentrated on educating the next generation of experts in the subjects of geology and geotourism (Fig. 6). Marek Doktor was a well-respected academician, who was exacting, but well-liked and respected by his students. He taught a number of classroom and field courses in the subject area, and concentrated on transferring his knowledge on the topics of sedimentology, geography, and geotourism. His lectures on various topics dealing with our geological heritage were especially popular. He had an excellent pedagogical approach and managed to convey even difficult material in a manner that held the listener's interest. He built up a group of graduate students and young researchers, his love of the natural world was infectious and he provided inspiration to many of his students. He educated the current generation of young geologists and geotourism experts and supervised dozens of M.Sc. and diploma projects. He supported the activities of the student Geotourism Club at AGH. He was the main supervisor of two PhD projects, but unfortunately did not live to see the projects completed. He was one of the founders of the Geotourism field of study programmes at AGH and cared about the quality of the subject matter. He initiated many new courses that he taught and took part in the committee that oversaw the quality of the degree programme.

Marek Doktor was a seasoned traveller. He was always eager to explore new areas of the world. He organized longer and shorter visits to different regions of Europe, Africa, the Americas and Antarctica. However, the area closest to his heart was the Polish Baltic Coast. He was especially fond of the region's landscapes and he emphasized the uniqueness of the coastal sandy beaches. He was an accomplished nature photographer, which he did with a passion. He left behind a rich legacy of nature images. He was also an avid book collector, specializing in photographic albums. His personal library contained several thousand volumes.

Marek Doktor always will remain our colleague and our friend. He will be remembered for his optimism and good nature and his ability to tell an entertaining joke that was appropriate to a given situation. He had a very personable character and counted many people as friends, to whom he offered good advice that came straight from the heart.

We will remember him smiling with camera in hand, as a person of science, an inspiring teacher, and above all as a sincere friend.

For the past eight years, Marek Doktor struggled with cancer. He succumbed to the illness on August 19th, 2020. He was laid to rest in the Podgórze Cemetery, sector 29, row 12, plot 13. We sorely miss him.

Anna Waśkowska and Tadeusz Słomka

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