

*This issue is dedicated to Professor Ryszard Dadlez, former meritorious Editor of the Geological Quarterly, to celebrate his 70th birthday and the 50th anniversary of his scientific activity*

## Ryszard Dadlez and his scientific career

Ryszard Dadlez was raised in a teacher's family. His father was a well-regarded educator, teaching Polish and for many years being director of a secondary school in Warsaw. He was also one of organisers of secret teaching under the German occupation. Ryszard's mother was also a teacher, although professionally active only for a short time. His older sister, a student of the underground Warsaw University, fell during the Warsaw Uprising as a dispatch-rider in the Home Army battalion "Kili ski". Ryszard did not take part in the uprising, being too young.

He studied geology at Warsaw University in the years 1949–1953 under the guidance of such famed professors as Jan Samsonowicz, Edward Passendorfer and Stefan Zbigniew Ró ycki. While still a student, Ryszard was employed at the Polish Geological Institute. For a few years he could not find a suitable position in the institute, and at last he joined — for a lengthy period as it was to turn out — research on the deep substrate of the Polish Lowlands. This is the area to which he has remained faithful until now. Time passed, and last year he enjoyed the jubilee of his 70th birthday together with the 50th anniversary of his scientific activity. In the same institute he attained all the steps of his scientific career, obtaining in 1965 a doctor's degree, in 1975 a doctor habilitus degree, and in 1981 a professorship.

During all these years the versatility of his scientific abilities and his insatiable hunger for knowledge was notable. The best proof of this versatility is the diversity of problems treated in the papers included in this volume, written by authors with whom Ryszard has collaborated during different stages of his career.

His first studies were devoted to stratigraphy, the foundation of all search for geological truth. These interests evolved to deal with problems of regional geology and palaeogeography, and these in turn led him to a romance with tectonics. This area attracted him greatly and he devoted to it many of his scientific efforts. There is nothing strange in this because, as written almost a century ago by Stanisław Lencewicz, "... there is no science above structural geology — it is the crown of geology itself".

In this early period, particular attention should be paid to the Ryszard's studies of the stratigraphy of the Lower Jurassic. The subdivision he proposed remains valid and applicable



across the entire Polish Lowlands. It also made possible correlation with the coeval deposits in both western and eastern Europe. This in turn allowed reconstruction of the palaeogeography of the Early Jurassic in Poland against a European background. The stratigraphic achievements of Ryszard Dadlez contributed to a wide popularization in Europe of the results of Polish studies on Lower Jurassic deposits.

His extensive stratigraphical knowledge allowed him to play an outstanding role and became very active during the birth of the first Polish stratigraphic code, as well as in the studies leading to systematization of the lithostratigraphical subdivision of the sedimentary cover in the Polish Lowlands.

His great professional skill in the area of stratigraphical, palaeogeographical and tectonic investigations predisposed Ryszard Dadlez to synthesize the results. This was expressed in participation in modern sedimentary basin analysis consisting in a search for mutual relationships between the structure of a deep crystalline basement, subsidence, sedimentary fill development and basin inversion.

In the field of regional geological studies, his pioneer investigations of the deep substrate of the Baltic and those of tectonics of Western Pomerania remain highly valued. These studies are of great significance to the evaluation of the petroleum potential of those areas.

As years passed, Ryszard Dadlez expanded his tectonic studies over the entire area of the Polish Lowlands. They were

based on ever more numerous deep wells and more precise and diverse geophysical methods. As a result of his analyses and interpretations he formulated the general principles of the evolution of the Permian-Mesozoic cover, discovering the particular role of synsedimentary vertical movements and faults. In addition, he also described the methodology of the research and prepared the classification of the tectonic units of the cratonic cover. Clear examples of the synthesis of those studies comprise two editions of the tectonic map of the Zechstein-Mesozoic succession (1980 and 1998) and the atlas of geological cross-sections across the Mid-Polish Trough, at the scale of 1:200 000 (2001). These works represent crowning achievements of Ryszard's tectonic efforts, and should be regarded as fundamental references.

Ryszard Dadlez persevered in popularizing the principles of plate tectonic theory and in his studies he endeavoured to tie tectonic events at plate margins to the structural evolution of epi-cratonic Poland. The best expression of these interests is his contribution to the academic text-book *Tektonika* written together with the late Wojciech Jaroszewski. In 1995 the book was ranked the best text-book and awarded the Staszic Prize by Department VII of the Polish Academy of Sciences. The reviewers considered that this book would remain an important reference this book for many years.

As a result of his deep involvement in studies of the deep structure of the Polish Lowlands, Ryszard became interested in problems of petroleum exploration, particularly in the Mesozoic successions. He acted as an expert for the Committee for Evaluation of Geological Research Proposals reviewing numerous proposals for deep wells prepared by the petroleum industry, but above all he himself authorized and co-authorized many proposals for geological research aimed at petroleum exploration. These investigations contributed to several discoveries in the Western Pomerania area, being a practical economic result of his scientific inquiries.

Ryszard inherited from his father a great respect for the Polish language, which is so concise and clear in his papers. These talents were manifest also in his editorial activity. For many years he was the editor of the *Kwartalnik Geologiczny* — one of the leading Polish geological journals. Under his editorship the journal began its evolution into its present more internationally oriented form — the *Geological Quarterly*.

The results of Ryszard's investigations into the deep structure of the Polish Lowlands were noticed abroad, receiving

large and lively resonance in the literature, particularly that of the neighbouring countries. Undoubtedly he belongs to a narrow elite of the most frequently cited Polish geologists.

Ryszard Dadlez readily travels across Europe (and farther) taking part in international scientific conferences and working meetings. He is a valuable and useful partner, which one of us (JZ) was able to frequently observe. He is rather reluctant when it comes to public discussions, which he dislikes because he can not attain perfect expression in English. In fact he understands English well, and is able to follow discussion without much problem. However, he always pronounces so rarely that among the participants of those scientific meetings he became known as "the great silent". Nevertheless, while following a course of discussion with great attention, he is always able to whisper an appropriate remark at an appropriate time, to prompt a good term or to briefly express his opinion, which is invariably well received. On such occasions he is indispensable.

Nevertheless, while in Poland Ryszard likes to discuss in smaller groups, and is an enthusiastic participant of published scientific discussions. There, he can fully use his talent for precise expression of ideas and logical reasoning.

To present a complete picture of Ryszard Dadlez we must add his receptiveness of a traveller with many interests beyond sciences. He always travels well prepared, and versed in the history, natural environment and culture of the country he visits. He is always keen to see as much as possible of non-geological things, absorbing with curiosity architecture, the beauty of the landscape and art in all its expressions. These circumstances also temper his uncommon, complicated, neurosthenic personality which did not always serve him well in everyday situations. This is the source of his distrust for people, and the reason why he finds it difficult to make friendships and even acquaintances. Yet, if he comes to like somebody then co-operation, although often bristling with disputes, can proceed effectively: fully one-third of his published papers were written in co-authorship.

Lastly, we wish to express — on behalf of Ryszard — our sincere thanks to all those individuals who supplied their papers to this volume and in this way contributed to the celebration of his jubilee.

*Jerzy Znosko and Sylwester Marek*

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