



*This volume is dedicated to
Professor **KAZIMIERA MAMAKOWA**
in celebration of her 70th birthday*

The seventieth anniversary of Professor Kazimiera Mamakowa birthday

This volume of *Acta Palaeobotanica* is dedicated to Professor Kazimiera Mamakowa an outstanding Quaternary palaeobotanist, on the occasion of her seventieth birthday.

Kazimiera Mamakowa, neé Podkomorzy, a daughter to Jan and Anna, was born on 9 March 1930 in Stary Sącz, southern Poland. Having attended primary school and then the Władysław Orkan Secondary School (partly clandestine Polish education during the Nazi occupation), in 1949 she entered the Jagiellonian University of Kraków. She studied biology of the Faculty of Mathematics and Natural Sciences. Her teachers included the eminent botanists Władysław Szafer, Bogumił Pawłowski and Andrzej Środoń.

Kazimiera Mamakowa graduated from the Jagiellonian University in 1954 with a master's degree in botany, which she obtained on the basis of her thesis "Pollen-analytical studies of the Podbukowina peat-bog near Dubiecko" under the guidance of Professor Jadwiga Dyakowska. In the same year she was employed at the Department of Nature Protection, Polish Academy of Sciences. Three months later Kazimiera Mamakowa was made an assistant and, subsequently, a senior assistant at the Department of Palaeobotany of the Institute of Botany, Polish Academy of Sciences in Kraków.

In the years 1955–1960 Kazimiera Mamakowa made pollen analysis of several profiles from five peat-bogs in the Sandomierz Basin (Kotlina Sandomierska). At that time she also got acquainted with the method of plant macrofossil analysis. This research resulted in the paper: "The vegetation of the Basin of Sandomierz in the Late-Glacial and Holocene". At the same time it was her doctoral dissertation written under the supervision of Professor Władysław Szafer and presented in 1963. The extensive data allowed Kazimiera Mamakowa to reconstruct the history of vegetation in the Sandomierska Basin (Kotlina Sandomierska) and the Przemyśl Foot-hills (Pogórze Przemyskie) during the Late Glacial and Holocene. She also recorded traces of human prehistoric settlements in the area under study.

Directly after obtaining her doctoral degree she was awarded a four months long scholarship at the Palaeobotanical Laboratory of the Botanical Museum, Bergen, Norway. In Bergen Kazimiera Mamakowa came into contact with the world-famous Quaternary palaeobotanist and plant geographer Professor Knut Faegri, a co-author of the fundamental textbook on pollen analysis. In Norway she conducted a study of a young Holocene profile from Lille Bukken Island. Her studies were of great importance during the attempts of the reforestation of the island. After returning to Kraków she continued her study of Norwegian material. This time she concentrated on the material coming from another island, Lerøy. The results of these studies were published in Norway.

Simultaneously with the above studies Professor Mamakowa studied history of vegetation of the Kraków area since Younger Dryas to Atlantic period. The palaeobotanical data showed among others things an intensification of the Vistula River flooding during those periods. She presented this issue in 1969 during the International Union for Quaternary Research (INQUA) Congress in Paris.

In the seventies Kazimiera Mamakowa was engaged in a multidisciplinary project on the Late Glacial and Holocene evolution of the Wisłoka valley led by Professor Leszek Starkel. This research was part of an international programme "IGCP Project No. 158 Palaeohydrology of the temperate zone during the last 15 000, Subproject A, fluvial environments". The result of the research was a joined paper "The evolution of the Wisłoka valley near Dębica during the Late Glacial and Holocene" with a comprehensive section on the history of vegetation by Profes-

sor Mamakowa, edited by Professor Starkel. In recognition of her contribution to the project she was awarded a prize of the Scientific Secretary of the Polish Academy of Sciences.

At the same time she widened her interests by the study of flora and vegetation history of different Pleistocene stages using both palaeobotanical methods, i.e. pollen and plant macroremain analyses. Definitely, the most important paper from this period of Kazimiera Mamakowa's research activity is a two-part monographic study "Late Middle Polish Glaciation, Eemian and Early Vistulian vegetation at Imbramowice near Wrocław and the pollen stratigraphy of this part of the Pleistocene in Poland". This paper was the basic for her habilitation procedure, successfully completed in 1989 at the Jagiellonian University. The results of those modern and detailed palaeobotanical analyses from the Imbramowice profile served as a starting-point for elaborating by her the pollen stratigraphy of the Eemian Interglacial and the adjoining glacial periods on the territory of Poland. In 1990 the Faculty of Biological Sciences of the Polish Academy of Sciences prized this paper.

Kazimiera Mamakowa became an Assistant Professor (Docent) in 1990 and Professor of Biological Sciences in 1996.

The results of Professor Mamakowa's research are of great value for historical plant geography. For instance, her studies of the Vistulian sediments from the Carpathians revealed that *Larix*, *Pinus cembra*, *Pinus sylvestris* had their refuges in the Jasło Foothills (Pogórze Jasielskie) during nearly the whole Plenivistulian period. Of special importance are her studies of the profile from Dąbrówka near Jasło, where sediments of the Eemian age in the Polish Carpathians were found for the first time.

The scientific interests of Professor Mamakowa also include palaeobotanical and stratigraphical issues of the Middle and Early Pleistocene. She is the author of a comprehensive palaeobotanical study of the controversial sediments in Przasnysz, central Poland. Her research allowed for their univocal classification in the stratigraphical position of the Mazovian (Holsteinian) Interglacial. This project was financed by the State Committee for Scientific Research (KBN). Quite recently taking her newly researched profile from Podgórze as a starting point, she demonstrated a new opinion on the Ferdynandovian Pollen Sequence.

In her Quaternary study Professor Mamakowa is not limited only to the problems of stratigraphy and history of vegetation. Together with Dr. Tatiana B. Rylova of the Institute of Geological Sciences, National Academy of Sciences of Belarus, Minsk, she works on the problems concerning two different methodological approaches represented by two schools of pollen analysis, i.e. Western and Eastern European ones.

The result of the co-operation of many years with Professor Felix Velichkevich, also of the Institute of Geological Sciences, Minsk, is a series of joined publications on plant macroremains of various Pleistocene ages, housed at the Palaeobotanical Museum of the W. Szafer Institute of Botany, Polish Academy of Sciences, Kraków, which the authors thoroughly revised from the taxonomical point of view. Up till now 31 plant macrofossil localities have been studied.

In the years 1993–1996 Professor Mamakowa was a sub-contractor in an international project "Climate changes in Europe during the last two climatic cycles with emphasis on temperate post optimum evolution and entering into glaciation" sponsored by the Commission of the European Community.

Professor Mamakowa has organized and manages the Polish Palynological Pollen Database – Pleistocene. The Database includes also plant macrofossil data. Part of the Polish Palynological Pollen Data is already accessible in the Internet.

The scientific output of Professor Mamakowa contains 59 items. More of them are original research papers and one is a monograph. An integral part of her scientific output consists more than twenty palaeobotanical studies for the Detailed Geological Map of Poland and over sixty palaeobotanical reports for the various researchers from many scientific centres in Poland. Many of these reports are of great stratigraphic and geomorphological importance.

Professor Kazimiera Mamakowa has always willingly shared her extensive knowledge with young researchers not only from Poland but also from other countries. She has trained many of the present Quaternary palaeobotanists in various Polish palaeobotanical institutions. She always finds time for and is of great assistance to her doctoral students. Professor Mamakowa has

promoted three doctors, and other two postgraduate studies under her supervision are in progress.

She often acts as a reviewer, not only in editorial work but also in doctorate and habilitation procedures, in Poland, as well as abroad.

Professor Mamakowa has visited several foreign centres of Quaternary research in Norway, Denmark, Sweden, former Czechoslovakia and Belarus. She has taken part in numerous international congresses in France, the United Kingdom, the Netherlands, Lithuania, Germany and Poland. She has given more than 50 lectures at various meetings and conferences, both in Poland and abroad.

Professor Kazimiera Mamakowa has been active in various scientific associations. Since 1955 Kazimiera Mamakowa has been a member of the Polish Botanical Society. She was a member of the Commission on Quaternary Palaeogeography of the Polish Academy of Sciences (since 1980; 1987–1990 a Vice-President). After the change of the organisational structure she became a member of the Commission on Quaternary Palaeogeography of the Polish Academy of Sciences and Arts. She has also been a member of the Quaternary Research Committee of the Polish Academy of Sciences (since 1981) and a President of the Palaeobotanical Commission of the Committee (since 1991). She was a member of the National Committee for the International Union for Quaternary Research in the 1993–1998 term of office.

Professor Mamakowa is a member of the Advisory Board of an international journal of palaeobotany and palynology *Acta Palaeobotanica*. In the years 1987–1994 she was a member of the Editorial Committee of *Folia Quaternaria*.

Professor Mamakowa has always devoted her time to her two passions: scientific work and family. She has been lucky to always have the understanding and support of her family. Her husband, Jerzy Mamak M.Sc., whom she married in 1953, has been a very skilful illustrator of nearly all her papers.

At present, Professor Kazimiera Mamakowa is working on more than ten extensive papers concerning various issues of Pleistocene stratigraphy and history of vegetation.

She retired on December 31st 2000. We all believe this day will not mark a significant change in her life and that researchers of the Polish Pleistocene will continue to benefit from her great knowledge and enjoy her friendship.

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SCIENTIFIC OUTPUT OF PROFESSOR KAZIMIERA MAMAKOWA

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