

TO THE JUBILEE OF RNDr. MARIE PALIVCOVÁ, CSc.



Dr. Marie Palivcová celebrates a significant jubilee this year. She was born in a teacher's family on July 8, 1918 in Myslín in southern Bohemia. Her studies were interrupted by German occupation during which the universities were closed. It was only after a ten-years' pause that her long-lasting wish was fulfilled: in 1952, as a mother of two small prominent professors of Czech geology from the Faculty of Sciences at Charles University. Being educated by prominent professors of Czech geology, R. Kettner, O. Kodym, F. Slavík, J. Kratochvíl and also B. Hejtmán she was appointed a lecturer at the Department of Petrology. Together with her colleagues Dr. A. Dudek and Dr. F. Fediuk she had trained that generation of geologists-petrographers who may be reckoned among the best workers in the Czech geology in this field. The stimulating lectures of these three tutors attracted many

a pupil to petrology. Also their manual "Petrographic tables for determination of rock-forming minerals and rocks" (1960, 1962), very modern for that time, became and still is an excellent working aid (out of print unfortunately) greatly valued by the students and practitioners.

During 1961—1987 Dr. Palivcová, CSc. has been active as a scientific worker in the Geological Institute of the Czechoslovak Academy of Sciences (since 1976 the Institute of Geology and Geotechnics), and since 1984 as a scientific consultant. Dr. Palivcová was among the founders of the Geological Institute of the Czechoslovak Acad. Sci., took part in its orientation and organization of the Petrographic Department, the head of which she later became. During the years she hold a number of functions, both organization-scientific and social; as a tutor of graduates she has applied her pedagogical experience. She always cultivated friendly relationship and cooperation with the Institutes of the Slovakian Academy of Sciences. Her endeavour to develop international cooperation in the field of geological sciences (AZOPRO, Interkosmos, multilateral treaties with the Academies of socialist states PK-IX and bilateral treaties with the Soviet Institutes) deserves great credit. Dr. Palivcová is a member of international organizations, of editorial boards and many other scientific commissions. For many years she has presided over the Section of Sciences of the Socialist Academy in Prague. Her scientific and social activity was rewarded by

a number of distinctions, honours and prizes of the Czechoslovak Academy of Sciences. In 1987 she obtained the International Prize awarded jointly by the Academies of the C.S.S.R. and U.S.S.R. for extensive collaboration with the teams of Soviet geologists.

The scientific orientation of Dr. *Palivcová* was heralded by her Ph. D. thesis devoted to the granite problem, which has become the subject of her life-long interest. She studied this problem in the most complicated granitoid region, the Central Bohemian Pluton, and introduced many a new view on the genesis of the granitoids of the Bohemian Massif, a question that is still most relevant. Nowadays, the author is one of the best experts on this enigmatic body. She brought out new concepts of the anatexis-metamorphic origin of granitoids and of the zonal structure of the Central Bohemian Pluton. She was the first to point out the significance of some hydrothermal-metasomatic alterations (albitization, amphibolization) for some igneous-looking rocks, the affinity of syenodioritic rocks of the Pluton with granulites and charnockites, and — very early — the petrogenetic importance of accessory minerals. Recently, she emphasized the importance of basic bodies and their special microtextures in their "antichilled" contacts, the "Andean type" of the basic series of the Central Bohemian Pluton and its batholithic features, and — with co-workers of Geological Survey in Prague — the presence of Cambrian sedimentary rocks as "parent rocks" of some granitoids of the Pluton as well as adjacent Moldanubian rocks. On her initiative many graduates under her supervision started to work on detailed research of principal rock-forming minerals. Dr. *Palivcová* deserves credit for the establishment of a laboratory for mineral separation at the Geological Institute of the Academy. She laid special stress (e.g. on the example of "durbachites") on the significance of the contradictory features in the development of plutonic bodies for all genetic interpretations. Together with Dr. *N. Štovičková*, CSc., she has emphasized the relevance of volcanites for the origin not only of intermediate and basic plutonites and also of typical Moldanubian metamorphites, both amphibolites and rocks of the gneiss group.

M. *Palivcová* is a firm advocate of the hypothesis of deep-fault tectonics (not that of lithospheric plates) depending on rotation dynamics of the Earth (according to *N. Štovičková*); she also favours a cryptoexplosive origin (not impact) of ring craters in the Earth's crust and on the Moon.

The lunar material was a further object of her petrographic study, within the program organized by Dr. *A. Cimbáľníková*, DrSc. Also in this case she stresses the significance of microscopic petrography for the interpretation of crystallization history of the rocks registered in their microtextures — a classic method underestimated today.

She also promoted correlation studies of the granitoids of the Bohemian Massif, the West Carpathians and the Caucasus. With the co-authors she demonstrated the consequence of new geotectonic-geochemical and petrological granitoid classification and of the intricacy of their formation analysis. Many of her papers have been published in Slovakian scientific journals. She had opportunity to see many classic plutonic and metamorphic complexes in West Europe as well as USSR.

Complex family conditions, tragic events and many other circumstances

did not allow Dr. Palivcová to realize (to the detriment of Czech geology) her plans to organize the investigation of the crystalline rocks of the Bohemian Massif, of the granitoids in particular, in such a measure as their international importance would deserve.

We should not omit to mention that Dr. Palivcová gave lectures on the granitoid problems and formation analysis at the Faculty of Sciences of Bratislava University, and conducted courses on microscopy of rock-forming minerals for petrologists and geochemists here. On request, she very readily organized excursions of Slovakian geologists into the Bohemian Massif region, contributing thus to easier correlation with the crystalline complexes of the West Carpathians.

On the occasion of the jubilee we wish Dr. M. Palivcová good health and much success in further scientific work. A bibliography of Dr. Palivcová's works is published in the *Journal for Mineralogy and Geology* (1988), Prague.

Translated by H. Zárubová

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