

ON THE 50th BIRTHDAY OF ING. JOZEF PLANČÁR, CSc.



On January 1 st, 1981, an outstanding Czechoslovak geophysicist Ing. Jozef Plančár, CSc. celebrated his 50 th birthday in a full enthusiasm for his work. Jozef Plančár was born in Šarišská Poruba (district Prešov) where he received his early education. He attended high school (1942—1950) in Prešov and finished it with maturity exam. In 1950 he entered Technical University in Bratislava to study special sciences. After two years he passed to Mining Faculty of the Slovak University in Košice from which he graduated in geology and minerals research in 1954 and obtained the degree of Engineer.

In 1954—1958 he was employed by Dionýz Štúr Institute of Geology in Bratislava as head of Geophysical Department. After abolishment of that department at the Institute, J. Plančár passed to Geophysical centre

in Bratislava to work there as head of the Department of gravimetry in the years 1958—1965. In April 1956 he passed to Geophysical Institute of the Slovak Academy of Sciences. Since then he has worked there as head of the department of Geomechanics and physics of the earth interior.

Ing. J. Plančár, CSc. has been solving first of all tasks connected with the demands of national economy since the beginning of his scientific activity. He was mainly concerned with gravimetrical interpretation methods. He began with geophysical research of inner depressions for the purpose of prospection for coal deposits, new sources of utilizable water, determination of protective regions for thermal curative waters. J. Plančár worked intensively also in the Slovenské rudohorie (ore mountains). His work resulted in complex geophysical-geological synthesis (with other authors) of geophysical researches carried out in the past 15 years. The data are valuable informations about the distribution of granitoid matter, basic and ultrabasic bodies in depth, the source of deep-seated faults, and explanation of physical manifestations in transversal depressions. J. Plančár paid most attention to the research of pre-Tertiary basement in the Inner West Carpathians and of deep parts of the earth's crust. Basing on evaluation of enormous amount of geophysical and geological data (obtained mostly from deep drilling) and on his geophysical models he compiled a morphotectonic map of relief of basement of the Inner West Carpathian regions covered by Tertiary complexes, in a close cooperation with D. Štúr Institute of Geology. The researches included distinction of deep faults and division of the West Carpathians into blocks on the grounds of analysis of gravity field. The data are parti-

cularly significant for socially preferable tasks like the research of deep structures in respect of bitumens, thermal waters occurrences, construction of atomic power stations, a.o. On the ground of study of discontinuities in earth crust, J. Plančár compiled a new map of discontinuities in the West Carpathians and a model of Moho-discontinuity of Central Europe for which he calculated theoretical gravity field of the earth crust.

In connection with geophysical research of deep structure, and division of the West Carpathians into blocks, J. Plančár dealt with recent vertical movements of the earth crust in cooperation with Geographical Institute (Slovak Acad. Sci.). In publications on this theme he analyses the relationship between recent moving tendencies and morphostructure the course of Moho-discontinuity, deep faults, regional gravity anomalies and neotectonic blocks of the West Carpathians.

In solving these problems, J. Plančár applied new interpretation gravimetric methods mostly elaborated by himself. They are the methods of direct and inverse gravity problems for the bodies of irregular geometrical shape, methods of modelling and various correlations between regional and residual anomalies.

Scientific significance of J. Plančár's work is in new qualitative data on the construction and dynamics of earth crust in the West Carpathians. The importance of his work overpasses regional extent as also proved by the fact that the problems solved are directly linked up with international projects of Planetary geophysical researches (KAPG), the project Geodynamics and within Carpathian-Balkan Geological Association (CBGA). Ing. Jozef Plančár, CSc. presented his results in about 40 publications. For his broad experience and scientific erudition he is member of many scientific institutions and commission. He also got distinctions for his meritorious work (Silver honorary plaque of D. Štúr, the prize of the Slovak Academy of Sciences for his work „The present dynamics of earth's crust and seismoactive faults in the West Carpathians“, memorial medals of Geofyzika Brno, and D. Štúr Institute of Geology, a.o.).

Complexity of problems solved, application of results of other scientific branches — i. e. the interdisciplinary character of his work — are the characteristic features of J. Plančár's scientific activity. Owing to his sympathetic personal characters and organizational abilities he can perfectly organize research teams from different institutions and geoscientific branches.

The Slovak geologists wish Ing. Plančár good health and lasting success in his further work.

Translation: E. Jassingerová

O. Fusán — O. Samuel