

*International Geological Expedition in Mongolia\**

In accordance with to the decision of the Council of Plenipotentiaries of the IGE in Mongolia—for the first time in the course of the Expedition's work—a Complex Geological and Geophysical Group was established. The group was organized by ELGI as main contractor in cooperation with MÁFI. In 1984 the task of the Complex Group was to carry out mapping on the scale of 1:50,000 in the area on the southern part of the Enderhan massive promising the occurrence of gold and tungsten ores, and prospecting on the scale of 1:25,000 or 1:10,000 over individual ore indications. The survey plan of the Group was compiled for 2 years, 1983 and 1984 and the field work was performed accordingly. In addition to this the geophysical section of the Group performed geophysical measurements in the survey areas of the Bulgarian, Czechoslovakian and Mongolian Geological Mapping Crews.

These investigations conducted with self potential, various resistivity and induced polarization, geomagnetic and radiometric methods contributed to a better knowledge of the structure and dimensions of the studied ore indications. Geophysical measurements performed over a polymetallic ore occurrence are deemed as particularly useful since here the interpretation of measured data led to the discovery of several ore-bearing zones.

*International Geological Expedition in Cuba\**

On the basis of a bilateral inter-governmental agreement on the subject of the "General Agreement to Stepping Up Geological Survey Projects in the Territory of the Cuban Republic" a complex geological and geophysical group started its activity in the course of 1984 in the southern part of Cuba, in the region of Holguin. The group was organized by MÁFI.

On the basis of the Agreement specialists of the two sides perform geological mapping on the scale of 1:50,000 in the region, and also take part in prospecting for mineral resources to the scales of 1:10,000 and 1:25,000 by geological and geophysical methods. International groups working on the basis of various

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\* Zsille A.

bilateral agreements are directed by a "Coordination Team", in which a Hungarian expert is the chief geophysicist. After having compiled its plan the Group began to conduct field operations.

#### *Geoelectric measurements in Spain\**

In 1984 on the commission of two Spanish organizations geoelectric prospecting for sulphide ores was conducted in Spain. Commissioned by the Escuela Técnica Superior de Ingenieros de Minas, Departamento de Geofísica Aplicada, Madrid (Prof. Manuel Lopez-Linares, Prof. Alfonso Maldonado Zamora) initiating ELGI's measurements in Spain, field works were performed at two occasions for a total duration of over 3 weeks, and for the Iberica de Especialidades Geotécnicas S. A. (IBERGESA, Madrid, Luis Balaguer) 1 month's field work was carried out. In the course of these three projects the DIAPIR-18 instrument and the DIAPIR-T transmitter were used. In the course of the field work geoelectric profiling was carried out with dipole-dipole, gradient and combined arrays for determining apparent resistivity and apparent polarizability. To contour the detected ore body, the mise-à-la-masse method was used.

At the above-mentioned Department of Geophysics a demonstration of the apparatus was arranged for the invited representatives of several Spanish organizations.

#### **Library; Publications**

The present stock of our *Library* amounts to 26,302 volumes of books and periodicals as well as 29,738 miscellaneous items. In 1984 our stock was increased by 550 books, 433 volumes of periodicals, 777 documentary publications and 245 brochures on instruments. Our collection of periodicals has been enlarged by 5 new ones. As a result of international exchange we received 423 publications and dispatched 2,278 publications to 547 addresses in 59 countries. Last year the services of our Library were utilized by 5,713 readers/borrowers.

*In 1984 the following publications were issued:*

- Annual Report of the Eötvös Loránd Geophysical Institute of Hungary for 1983.
- Geophysical Transactions, vol. 30. Nos. 1, 2, 3, 4.
- Annual Report 1982 of the Tihany Geophysical Observatory.

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\* Draskovits P.