

support for the Academy. Marchlewski's interest in agricultural problems accounted to some extent for his political leanings; for he took an important part in the Polish Peasant Party and was elected as representative of the party in the Upper House.

Marchlewski spent the first months of the War in Lwow, under Russian occupation, and so avoided arrest and deportation to the concentration camp at Oranienburg-Sachsenhausen, which was the fate of most of his fellow professors in Cracow after the German entrance into the city. Although living under miserable conditions he wrote his last work, a text-book on physiological chemistry, for he still

wished to devote the last resources of his skill to the rising generation of students. Death has prevented him from helping to re-build Polish scientific life.

BOLESZAW SKARZYŃSKI

WE regret to announce the following deaths:

Mr. H. B. Maufe, formerly director of the Geological Survey of Southern Rhodesia, on May 8, aged sixty-six.

Dr. E. B. R. Prideaux, formerly reader in inorganic and physical chemistry in University College, Nottingham, on May 8.

## NEWS and VIEWS

### Royal Society: New Foreign Members

At a meeting of the Royal Society on May 9, the following were elected to the foreign membership of the Society: Dr. Herbert Spencer Gasser, director of the Rockefeller Institute for Medical Research in New York; Prof. Frédéric Joliot, head of the National Centre of Scientific Research in Paris; Prof. Theodor von Karmán (Pasadena), professor of aeronautics and director of the Guggenheim Aeronautics Laboratory at the California Institute of Technology; Prof. Erik Andersson Stensjö, professor in the University of Uppsala and director of the Riksmuseum, Stockholm.

### Royal Geographical Society: Awards for 1945-46

THE Royal Geographical Society has announced its medal and other awards for 1945-46:

The King has approved the following awards: Founder's Medal for 1945 to Dr. Charles Camsell, Deputy Minister of Mines and Resources, Canada; chairman, Northwest Territories Council, and president of the Canadian Geographical Society; for his contributions to the geology and geography of the Canadian north and his work in advancing geographical science in the Dominion; Patron's Medal for 1946 to Sub-Inspector Henry A. Larsen, of the Royal Canadian Mounted Police, for his achievement of the North-West Passage in the *St. Roch* from west to east in 1940-42, and from east to west in one season in 1944; Founder's Medal for 1946 to Brigadier Edward A. Glennie, director of the Survey of India, for his work on geodesy in India and his contributions to mapping in the Far East.

The Council of the Society has made the following awards: Victoria Medal for 1946 to Prof. H. J. Fleure for his distinguished service in the advancement of geographical education and his valuable researches into the human aspects of geography; Murchison Grant for 1945 to Lieut.-Colonel W. E. Browne for his work on geodetic survey, and in extending triangulation over long distances at sea; Murchison Grant for 1946 to Lieut.-Colonel C. A. Hart for his work on the application of radar to air survey; Back Grant for 1946 (two years' income) to J. W. S. Marr for his work in connexion with the *Discovery* investigations and his memoir on the South Orkney Islands; Gill Memorial for 1945 to Commander K. E. Oom, Royal Australian Navy, for surveys on the coast of New Guinea during 1942 and 1943 and for subsequent surveys as head of the Australian Hydrographic Department; Gill Memorial for 1946 to Wing-Commander D. C. McKinley as organiser and

leader of a series of flights to the north magnetic and north geographical poles in May 1945 in the Empire Air Navigation School aircraft *Aries*.

### Institution of Mining and Metallurgy: Awards for 1946

THE Gold Medal of the Institution of Mining and Metallurgy, the highest distinction in the Institution's gift, has been awarded to Mr. Carl Davis, past-president, director and London agent of the Anglo-American Corporation of South Africa, Ltd., in recognition of his services to the gold mining industry in South Africa and West Africa, to mining in Northern Rhodesia, and to mining education. Honorary membership of the Institution has been conferred on Dr. J. G. Lawn, past-president, director and consulting engineer, Johannesburg Consolidated Investment Co., Ltd., in recognition of his services to the Institution as honorary treasurer during 1938-46. The Consolidated Gold Fields of South Africa, Ltd. Gold Medal and Premium have been awarded to Mr. G. Hildick-Smith, manager of Modderfontein B. Gold Mines, Ltd., for his paper on "Shaft Pillars and Shaft Spaces", published in the *Transactions* of the Institution.

### American Upper Air Cosmic Ray Expedition

THE National Geographic Society, the United States Army Air Force and the Bartol Research Foundation will jointly conduct a series of four round-trip flights in a specially equipped B-29 bomber to investigate the variation with latitude and longitude of cosmic ray intensities. The flights will extend between lat. 50° N. and the magnetic equator, some 20° south of the geographic equator; and studies will be made at altitudes of 5,000, 15,000, 25,000 and 35,000 ft. The trips will not necessarily be continuous, and parts of each flight may even be made at different levels so long as complete round trips at each of the four altitudes can be pieced together. The principal apparatus to be carried in the plane, consisting of multiple banks of Geiger counters, has been designed by Dr. W. F. G. Swann, director of the Bartol Research Foundation. The counters are so arranged that they will record only the particles which move downward vertically. It is hoped to discover the pattern of cosmic ray intensity in a cross-section of the atmosphere extending 4,800 miles northward from the magnetic equator, and reaching from sea-level more than 6½ miles high, and so learn more about the nature of the primary particles entering the atmosphere and breaking down there to