

Scientific Advisory Committee to the Indian Cabinet—this Committee also acts as the National Committee for the International Council of Scientific Unions. He was a member of the Governing Body of the Indian Council of Scientific and Industrial Research, and of several committees concerned with planning and development of science. He was awarded the title of *Padma Bhushan* by the Indian Government in 1954. He received honorary doctorates from several universities in India and abroad, including London and Cambridge.

Bhabha's interests covered a wide range. He was fond of music, and was no mean musician and painter himself. He had a keen aesthetic sense and sophisticated tastes: the Tata Institute at Bombay is not only a great centre of vigorous research but it is also one of India's 'prestige buildings'.

He was a man of great personal charm. He was always eager to seek outstanding talent (even in fields remote from his own interests) and give it every possible encouragement. He had travelled extensively, and had wide international contacts. He will be sorely missed by his numerous friends in and outside India.

He is survived by his mother and a younger brother.

D. S. KOTHARI

### Prof. T. J. Jenkin

PROF. THOMAS JAMES JENKIN, who died on November 7, 1965, was professor of agricultural botany at the University College of Wales, Aberystwyth, and director of the Welsh Plant Breeding Station from 1942 until he retired in 1950. He was an agricultural scientist of the highest repute, and his pioneer work on the breeding of improved varieties of grasses earned for him world-wide recognition.

As a young man, Jenkin could not have envisaged a scientific career, for this only became possible later by taking advantage of the few and unexpected opportunities that came his way.

Born in 1885 on a small isolated farm in North Pembrokeshire, his youthful ambition was to become a successful farmer, and for this purpose he attended, in 1907, a short course of one academic term in the University Department of Agriculture at Aberystwyth. However, in the following year he was seriously injured on the farm. This accident, which made him less fit for manual work, was probably the turning-point in his career, because it led him to further academic study. Following a continuation course of another term at Aberystwyth he was advised and encouraged to enter the Old College School at Carmarthen, where he achieved the distinction of obtaining university matriculation in one year. In 1910 he returned to Aberystwyth to read for a degree in rural science, where he graduated with first-class honours in botany in 1914.

After a year as agricultural organizer for the Counties of Brecon and Radnor, Jenkin was appointed adviser in agricultural botany at the University College of North Wales, Bangor, where he remained until his return to Aberystwyth to occupy a similar post in 1919. This gave him the opportunity to study the botanical composition and productivity of sown pastures, when he showed that the varieties of herbage plants then available lacked persistency in the sward and were soon replaced by indigenous grasses. His work attracted the attention of Prof. (later Sir) R. G. Stapledon, and he joined the newly established Welsh Plant Breeding Station as senior research assistant in 1920. This was the beginning of a long and fruitful association between two great agricultural scientists who, although differing widely in personality and in their scientific approach and methods, made outstanding contributions to grassland improvement and productivity.

Jenkin's extensive collection of indigenous grasses, which showed considerable genetic variation, formed the

basis for the deliberate breeding of improved varieties. The techniques for controlled hybridization had to be developed, but even after adequate testing of the progeny as single plants he was confronted with the problem of assessing the value of a combination of favourable genotypes when grown in a sward under highly competitive conditions. Without modern knowledge of population genetics he was extremely successful in producing a series of improved varieties which maintained their identity and performance after several generations of seed production. His variety *S23* of perennial ryegrass has probably contributed more to the improvement of both hill and lowland pastures in Britain than a whole series of commercial seed mixtures.

Although the greater part of his work involved the production of new varieties for use on the farm, Prof. Jenkin was able to conduct pioneer research on inter-specific and inter-generic relationships of the grasses, particularly *Lolium*, *Festuca* and *Phalaris*. He was awarded the degree of D.Sc. for these investigations.

As professor and director he guided the work of the Department of Agricultural Botany and the Welsh Plant Breeding Station with distinction throughout the difficult war and immediate post-war years, and when he retired in 1950 he was made a C.B.E. He was later awarded the Gold Medal of the Royal Welsh Agricultural Society and made an Honorary Member of the Swedish Seed Association for his outstanding contribution to agriculture.

Thomas James Jenkin belonged to that unique band of pioneers who have contributed so much towards the advancement of agriculture, and future generations will acknowledge their debt to the young Pembrokeshire farmer who became an outstanding agricultural scientist.

P. T. THOMAS

### Prof. Ferdinand Herčík

PROF. F. HERČÍK died on January 20 at the age of sixty. He was director of the Institute of Biophysics of the Czechoslovak Academy of Sciences at Brno since its inception in 1955. One of the foremost contemporary research workers of Czechoslovakia, his work was widely known throughout the world and his friendship was cherished by many of us who had the good fortune to know him well. His activities in connexion with the affairs of the United Nations Organization brought him into extensive touch with Western scientists. Being a member of the United Nations Scientific Committee on the Effects of Atomic Radiation and a governor and vice-chairman of the International Atomic Energy Agency made it possible for him to travel and to meet colleagues freely at a time when contacts between Eastern and Western scientists were much more restricted than they are now. When chairman of the United Nations Scientific Committee, his tact, perseverance and unquestionable integrity made it possible for this Committee to publish a balanced and unanimous report, though there was then no test-ban treaty and the question of the hazard from fall-out was in the arena of emotion and politics. At the International Atomic Energy Agency, Prof. Herčík was tireless in his support for fundamental investigations on the biological effects of radiation, which he considered an essential part of any research programme designed to further the peaceful uses of atomic energy. His unique status enabled him to ensure that investigations into the problems of health and safety were not too narrowly based and he emphasized the importance of studying chemical agents which modified the degree of biological damage produced by a given dose of radiation.

These achievements as a scientific statesman required more than technical competence, and as soon as one met him one was struck by his extremely rich personality. He was a talented and very active painter, had a passion