

## SPECIAL CORRESPONDENCE

### THE SOCIETY FOR THE PROTECTION OF SCIENCE AND LEARNING

THE Academic Assistance Council was formed in May, 1933, to assist scholars and scientists who, on grounds of religion, race or opinion, were unable to continue their work in their own country. Its services have been needed chiefly to help the 1,300 university teachers displaced in Germany, but it has also assisted refugee scholars from Russia, Portugal and other countries.

In cooperation with other organizations, the council has assisted in permanently re-establishing 363 of the 700 displaced scholars who left Germany. A further 324 are still being temporarily maintained in universities and learned institutions while seeking more permanent positions. The council has directly received over £46,000 in donations which, with the exception of the small amount used for paying fares of displaced scholars to positions overseas, administrative expenses and other incidental purposes, have been employed in subsidizing research by our refugee guests. The council, as the international center for this work, has built up a place-finding organization and information service which are proving of increasing usefulness.

The council hoped that its work might be required for only a temporary period, but is now convinced that there is need for a permanent body to assist scholars who are victims of political and religious persecutions. The devastation of the German universities still continues; not only university teachers of Jewish descent, but many others who are regarded as "politically unreliable" are being prevented from making their contribution to the common cause of scholarship.

The council has decided to establish as its permanent successor a Society for the Protection of Science and Learning, which will continue the council's various forms of assistance to scholars of any country who, on grounds of religion, race or opinion, are unable to carry on the scientific work for which they are qualified. One function of the society will be to build up an Academic Assistance Fund to award research fellowships, tenable in the universities of Great Britain and other countries by the most distinguished of the refugee scholars.

This fund will be administered under the auspices of His Grace the Archbishop of Canterbury, the president of the Royal Society, the president of the British Academy, Lord Horder, the Hon. R. H. Brand and myself.

I appeal confidently and urgently to all those who wish to assist in the defence of free learning and science to join the society by paying a minimum annual subscription of one guinea. I hope that many will make a larger donation either to the society or to the

fund, or will undertake to covenant with the society for a seven-year contribution, thus allowing us to recover income tax on the donations. Gifts to the fund may be earmarked if desired for the establishment of particular fellowships or studentships bearing the name of the donor.

This appeal is made with the full cooperation of the organizers of the National Christian Appeal which is about to be made for the destitute non-Jewish refugees from Germany, since the society will be giving assistance to only one section, namely the scholars, among the German refugees, irrespective of their religious affiliations. It is therefore with confidence that I ask support from both the Christian and the Jewish world, and in particular from the university world, to place this most important part of the refugee work on a firm financial basis.

Contributions and subscriptions should be sent to me at the offices of the Academic Assistance Council, 12 Clement's Inn Passage, Clare Market, W.C.2, made payable to the "Academic Assistance Council."

RUTHERFORD,

RUTHERFORD OF NELSON,

*President of the Academic Assistance Council.*

### THE FREEDOM OF LEARNING<sup>1</sup>

Sir,—In your issue of March 18 you published an account of the new plans of the Academic Assistance Council for the reorganization of its work and the creation of a permanent body—the Society for the Protection of Science and Learning—with the general aim of safeguarding the freedom of learning. The undersigned, and with them their friends, collaborators and pupils, feel that they should not let this moment go by without publicly expressing their gratitude to the Academic Assistance Council, as the executor of the good will and friendship of their English friends.

Hundreds of scholars, faced with the necessity of abandoning their studies, have sought and found advice and help from this organization. It is due to the devotion and energy of the members of the council that difficulties which at first appeared insurmountable have been overcome, and that the council, in collaboration with other organizations, has succeeded in placing 363 out of 700 displaced scholars. In reality, far more has been achieved than these numbers indicate. It is in the very nature of the problem that even where no material assistance was possible, help could be given by satisfying spiritual needs. The warm sympathy extended to all who approached the Academic Assistance Council has helped in hundreds of cases—this part of its work can not be illustrated in figures.

<sup>1</sup> Letter addressed to the editor of the *London Times*.

The Academic Assistance Council is coming to an end in its emergency form, but we and our friends will endeavor to make it remain unforgotten. May we hope that the continuation of our scientific work—helped in

no small measure by its activities—will be an expression of our gratitude?

ALBERT EINSTEIN

E. SCHRÖDINGER

V. TCHERNAVIN

## SCIENTIFIC BOOKS

### GENETICS TEXTS

*The Principles of Heredity.* By LAURENCE H. SNYDER, Sc.D. D. C. Heath and Company. 1935. xiii + 385 pp. \$3.00.

*Principles of Genetics and Eugenics. A Study of Heredity and Variation in Plants, Animals, and Man.* By NATHAN FASTEN, Ph.D. Ginn and Company, New York. 1935. \$2.80.

WITH the development of the science of genetics there has been a tendency on the part of writers of text-books on the subject to retain all the old and include all the new. Snyder's "Principles of Heredity" certainly covers a lot of territory for an elementary and presumably one-semester course, but the material is presented in such a logical, clear and scholarly manner that a competent teacher should be able to go far with it. A student attempting to master it alone would doubtless have difficulties, but it is obviously not intended to be so used. The problems given at the ends of the chapters are well chosen and together with the selected references will be very helpful to the discriminating teacher.

The material is frankly presented with a human bias; but although, as the author says, "human characters have been used wherever feasible as the source of data," other material constitutes a goodly portion of the book, and there are even special chapters on "The Genetics of Domestic Animals" (12 pages) and "The Genetics of Cultivated Plants" (18 pages). It is really remarkable how much is covered in this space. The condensation of the physiology of reproduction of different phyla of plants into less than ten pages (including illustrations) is really a feat, but the student will doubtless need either previous knowledge or adequate help in order to master it.

The general plan of the book does not depart greatly from the conventional. After presenting simple (monohybrid) Mendelian inheritance, there is a chapter on the physical background (cytology), after which dihybrid and modified ratios, sex-linkage, lethals, multiple allelomorphs, etc., are taken up in much their usual order. The human interest is concentrated in the last four chapters, which deal respectively with the inheritance of physical and physiological traits in man, of mental traits in man, eugenics and the analysis of human family histories. The last will probably seem rather special for a general text, but may prove useful for those students especially interested in human inheritance. The author states in the preface

that "it is the frank purpose of the book to arouse and hold the interest of the student and to stimulate his thoughts along lines of genetic principles and their consequences." With proper instructional guidance it seems admirably adapted to the purpose.

The book is clearly printed with a refreshing number of new illustrations. It is remarkably free of both factual and typographical errors. There is no glossary, but an adequate index.

Fasten's "Principles of Genetics and Eugenics" is avowedly "an elementary text for students who desire accurate knowledge and up-to-date information in genetics and eugenics," but is apparently intended to make somewhat of a popular appeal. While it is presumably sufficiently up-to-date for elementary purposes (although in the discussion of the nature and location of genes there is no mention of the evidence from salivary chromosomes), there is an unfortunate number of cases in which the facts are inaccurate or give the impression of being so from the way in which they are stated. Thus in describing Mendel's experiments with tall and short pea plants (p. 171), to state that the tall plants, "when mated together," gave only tall scarcely conveys the idea of self-pollination, which is the only practicable method of making the test. Again, even Mendel with all his industry and patience would have found it a too tedious process to test the genotype of tall individuals by the use of a *back cross*, as stated on page 173. And on the next page it is stated that Mendel also studied the cross of peas with "seed coats yellow and seed coats green"; if such were the case Mendel would have had difficulty in explaining the segregation in the seeds on the  $F_1$  plant. The various eye colors in man are attributed to different degrees of brown and *blue* pigment, which would seem to be merely a slip were it not repeated a page or so later. And without intending to be captious, one suspects that Davenport was rather more than "of the opinion" that the height of the individual is determined by the length of the component parts of the body!

In spite of these defects, however, the text presents a wide range of interesting material. Much emphasis is placed on eugenics, and while this part leans a bit towards propaganda, the author is on the whole conservative in his recommendations.

The extensive glossary appears to have been prepared with considerable care and the text is well indexed.

L. J. C.