More than 90 per cent of the students benefit regularly from bursary grants, 17,000 reside in student hostels and 24,000 feed in student canteens. There is medical and social aid.

Prof. Tamas discussed curriculum reforms which have been introduced and brought closer in line with the country's economic and practical needs, and the extent of the advanced and research work undertaken in the Hungarian universities.

RED FOX IN THE UNITED STATES

A N evaluation of the red fox in the United States has been made by Thomas G. Scott, on behalf of the Illinois Natural History Survey*, which suggests that the fox has shown no sign of declining in numbers and that it has 'unusual capabilities for survival despite keen competition; the opening-up of forest lands and the reduction or elimination of wolves and coyotes seem to favour foxes. Some reports on rabies outbreaks in the eastern United States indicate that the fox is fully capable of reaching population-levels which are too high to serve its own interests.

The role of the red fox as a predator appears to be the most important of the various factors affecting the economic position of this animal. It tends to take the foods which are most readily available, and thus its diet varies immensely both with the season and the environment. The diet does not reflect precise, automatic adjustments to changes in population-levels of specific prey. For example, during the spring and summer, when prey such as rabbits, mice and birds are found in increasing numbers, the frequency of occurrence of these items in the fox's dict declines where acceptable fleshy fruits and insects are available. Thus it would be unwise to claim or expect an increase in numbers of prey species in response solely to the reduction or elimination of red foxes. A large-scale experiment with the reduction of a fox population as a means of increasing a pheasant population in New York State resulted in the conclusion that "despite reducing the fox population to a very low level, fox control on the Seneca County area did not increase pheasant abundance appreciably and certainly not to a degree commensurate with the cost". Though foxes unquestionably prey upon vulnerably situated poultry, and to a lesser extent on small pigs and lambs, it seems that poultry losses result largely from failure of owners to follow recommended poultry-husbandry practices.

Foxes are among the most important vectors of rabies in the United States, and herein probably lies their greatest nuisance. People living in an area where rabies has been reported experience great mental distress, and may even have to suffer the physical discomfort of Pasteur treatment if attacked. It is certain that losses occur among livestock infected through the bites of rabid foxes. When rabies breaks out in a locality of high fox population, the disease is likely to continue until the foxes in that general area are virtually exterminated; this may take from one to three years.

The most desirable method known for bringing rabies outbreaks among foxes under control has

* Natural History Survey Division of the State of Illinois. Biological Notes No. 35: An Evaluation of the Red Fox. By Thomas G. Scott. Pp. 16. (Urbana, Ill.: Department of Registration and Education, 1955.) proved to be population reduction by means of organized trapping; but whether the several million dollars that has been paid out during the past twenty years on fox bounties has been money well spent is a question open to doubt. Experience in Pennsylvania indicates "that probably 50 per cent or more of the mammalian predators (red fox, gray fox, and weasel) would have been killed regardless of the bounty". The bounty system cannot be directed efficiently toward the reduction of specific, excessive fox populations because the administrative areas in which funds are approved for bounties seldom conform with the particular areas needing attention. The economic demand for red fox pelts is at present very low. The sport of fox-hunting contributes to the reduction of fox populations, and the survey, which is well illustrated, discusses the ethical and æsthetic values involved in this sport.

STIMULATION OF YIELD FROM RUBBER TREES

A GOOD deal of work has been done at the Rubber Research Institute of Malaya, both before the Second World War and, more recently, on the stimulation of yield in the rubber tree *Hevea* brasiliensis by applications of vegetable oils (for example, palm oil) and various synthetic substances, and several aspects of this are described by E. D. C. Baptist and P. de Jonge in the Journal of the Institute (14, 355; 1955). A brief historical review is given of methods used for stimulating the latex yield of rubber trees, and experiments are described in which vegetable oils applied to lightly scraped bark below the tapping-cut resulted in large increases in yield.

The results of these early experiments provided a clear picture of the reaction of the tree to vield stimulation and led to the development and commercial use of yield stimulants. Similar application of a number of synthetic growth substances in an oil vehicle has also resulted in increases in yield and in the thickness of renewed bark above the cut. Repeated applications of the treatments at sixmonthly intervals over a period of three years have not resulted in an increased incidence of 'dry' trees; but the yield response is found to decrease with each successive treatment. Monthly treatment with yield stimulants of renewing bark just above the tappingcut has also resulted in greatly increased yields and in an increase in bark thickness; the latter is confined to the non-latex-bearing tissues of the outer A study has been made of the effects of bark. 2,4-dichlorophenoxyacetic acid (2,4-D) and 2,4,5trichlorophenoxyacetic acid (2,4,5-T) on the rubber extraction area of the bark on tapping, the incidence of brown bast, rate and duration of latex flow, anatomical structure of the bark, and the properties of latex and dry rubber.

The response of the rubber tree to yield stimulants is shown to be influenced by the condition of the bark, the type of planting material, the tapping system, the composition and method of application of the mixture. An extension of the area of rubber extraction in the bark of trees in normal tapping as a result of treatment with yield stimulant has been demonstrated experimentally and is thought to account for the increased yields obtained and for the low incidence of brown bast after repeated treat-