make available for scientific study and lay observation outstanding examples of the architectural and sculptural art of the ancient Maya. Similar work has already been carried out by the Institution on the temples of Chichen Itza and the stelæ of Quirigua. Copan is a centre in which are the finest products of the art of the Old Empire of the ancient Maya. It has the added interest that not only was it one of the first sites investigated by those pioneers of Central American archaeology, Stevens and Catherwood, in the earlier half of the nineteenth century, but it was also the site from which A. P. Maudslay obtained, at his own expense and with immense difficulty and labour, his famous collection of plaster casts of architectural and artistic detail, of which examples are now displayed in the British Museum, after many years of neglect. The operations of the Institution at Copan began in 1935 under Mr. Gustav Stromwik, and have already produced important chronological data relating to pottery found at the base of reconditioned stelae.

The Maize Survey

THE Maize Survey has been established by the Institution in co-operation with the United States Department of Agriculture, officers from the Department being seconded for the purpose. The object of the survey is to investigate the origin of maize and to make a study of the maize agronomy of the Maya area. Although maize is the cereal which made possible the rise of pre-Columbian American civilization, its ancestry is problematical and it is not known certainly where and when it was brought under cultivation-a question having an intimate bearing on the beginnings of higher New World culture, including that of the Maya. In reporting on the results of a preliminary survey, which lasted for about a month in the field, Messrs. R. A. Emerson and J. K. Kempton offer certain tentative conclusions, which will serve to throw some light on the density of the ancient population and the relative proportions of the urban and agricultural population. The cultivation of maize, as at present practised, is on the milpa system; that is, a plot, after being burned off, is cultivated for two years, when it is allowed to revert to forest conditions, taking about eight to ten years to become completely re-established and ready for burning off again. Consumption is at an average rate of 1.6 lb. per head per day, which gives an annual consumption by a family of two adults and three children requiring from three to four acres under cultivation. This is about the amount which the Indians now claim to cultivate. The milpa system is the only system possible in Yucatan, even with modern tools and transport, and may, therefore, be presumed to be that followed by the ancient Maya. There is no evidence that it might not be followed indefinitely. The region, as thus cultivated, is capable of supporting a population of fifty persons per square mile, with ten persons as non-agricultural urban inhabitants. Maize cultivation has now completely supplanted the cotton grown by the ancient Maya, and only a small quantity of tobacco is grown.

New Exhibits in the Museums at Kew

THROUGH the generosity of various firms, the Royal Botanic Gardens, Kew, have recently acquired some additional specimens of general interest to the public. A new set of examples in Museum IV showing the various processes in the manufacture of a modern tennis racket has been presented by Messrs. F. H. Ayres, Ltd. The old method of making a tennis racket was to bend a single strip of ash into the required shape, but now a better process has been developed by the use of laminated wood of various kinds. In the modern examples on exhibit, the outer layer is of English oak, the innermost is of ash, and the several ply between are of Canadian birch and English beech with an insertion of walnut. The wedge at the top of the handle is of English sycamore, the top and side clasps are of Malayan lauan, whilst the wedge bend is of Canadian rock elm. A very carefully prepared series of veneers is shown in Museum No. III. The samples shown have been presented by Messrs. John Wright and Sons (Veneers), Ltd., Avon Wharf, Mile End Road, E.3, many of them having been supplied by the firm for the interior decoration of the Queen Mary. The veneers are cut from logs obtained from many parts of the world, some of the species being rare and not even yet known botanically. By very thin cutting in various directions a single tree supplies a great quantity and range of veneers, and very large sheets are obtained by cutting around the tree with a rotary machine. In the same Museum (No. III) new exhibits include a fine series of photographs by Dr. I. B. Pole-Evans, which give a good idea of the floral regions of South Africa, and alongside are bouquets of some of the beautiful everlasting flowers (mostly Composites) from the same region. These have been sent by Dr. Fourcade, Humansdorp, and Dr. Muir, Riversdale. In the large Indian case at the west end of the building are displayed a series of botanical paintings of Swiss alpine plants by the late Miss Sidney E. Forster and presented by Miss A. E. Pepys in 1934, together with a fine set of coloured postcards of similar subjects from the private collection of the Director.

Degassing' by Electricity

IN World Power of October an interesting device is described for 'degassing' underground channels, such as sewers, drains and conduits, which has been used successfully abroad. Many large towns have records of street explosions proving the dangers arising from fortuitous concentration of gases such as methane, ether and benzene arising from the greater use of petrols in vehicles and the increasing variety of industrial chemical processes. As a rule, these gases are heavier than air, and become highly explosive when mixed with it. The apparatus consists of a motor-driven centrifugal suction fan. This is connected by suitable tubing to a floating suction head. The heavy gases are collected as nearly as possible at the level of the water at the suction head and pass through the tube with considerable velocity to the fan in the container. The power taken to