Again, will the method be simpler to use than that involving the use of ultra-violet rays, and will the conversion be more quantitative as the method is improved? It will also be of interest to observe whether the methods used by Bourdillon and his collaborators in England and by Windaus at Göttingen in the separation of the vitamin from its accompanying impurities in irradiated ergosterol are applicable to 'chemically treated' ergosterol. Further details of Bills and McDonald's process will be awaited with interest.

Power Stations and Air Pollution.

During the past two years, public attention in Great Britain has been focused on the question of air pollution due to the operation of super-power electric stations. In his recent presidential address to the Junior Institution of Engineers, Dr. S. L. Pearce, engineer-in-chief of the London Power Company, discusses this problem and others of great importance at the present time owing to the practice of concentrating more and more power in single generating stations. Efficient measures are available for preventing the pollution of the atmosphere by the smoke and ash from chimney-stacks when stoker-fired boilers are used, but when pulverised fuel is adopted the problem becomes more difficult, owing to the fineness of the dust content of the ash. The recent controversy about the new Battersea power station had reference to the much more difficult problem of arresting the possible damage to buildings and vegetation, and the alleged danger to life, due to the sulphur oxides contained in the products of combustion issuing from the chimneys.

Most of those who discussed this problem attributed the pollution of the atmosphere mainly to the power stations. That some of it is due to this cause every one admits, but the great bulk is due to the many industrial power plants and the hundreds of thousands of domestic chimneys. Effective measures are now available for eliminating smoke and the ash and dust content of flue gases. Cyclone plants, spray and film washers, and electrofilters all find a place in modern power stations. In conjunction with these, however, it is necessary to erect chimneys at least 300 ft. in height. During the last three years, by the collaboration of engineers and chemists, much research work has been carried out by the London Power Company, experimental plants have been erected, and the results obtained have proved conclusively that the emission of sulphur fumes can be reduced to a negligible quantity.

Akhenaton's Mummy.

The consternation aroused a few weeks ago by the reported discovery that the mummy of Akhenaton exhibited in the Cairo Museum was not that of the famous monarch, and the suggestion that a substitution had taken place, has now been allayed in some degree by the announcement that it is the identity of the mummy that is in question. Dr. D. E. Derry and Mr. Rex Engelbach, curator of the Egyptian Museum, in a joint lecture at Cairo, as reported in the

Times of Jan. 2, have now put forward the view that the mummy hitherto regarded as that of Akhenaton is really that of Smenkara, a son-in-law of Akhenaton. who used the royal name in his cartouche; hence the confusion. This mummy has presented some elements of doubt from the time of its discovery. It was found in 1907 in the Valley of the Kings, in a tomb supposed to be that of Queen Tivi. When it was examined by Prof. Elliot Smith, the condition of the bones was such as to suggest that they belonged to a young man who, at the time of his death, was not more than twenty-five years of age. As this seemed difficult to reconcile with the known facts that Akhenaton had reigned for seventeen years and had six daughters, Prof. Elliot Smith suggested that the king might have suffered from a rare affection which would have delayed the consolidation of the bones perhaps for as much as ten years beyond the normal ("The Royal Mummies", pp. 52-53). Dr. Derry, as a result of experience in the examination of the modern Egyptian youth, now thinks that the mummy may be that of an individual of even less than twenty-five years of age, in view of the early age at which maturity is attained in Egypt. Further, the bulbous head, well known in the representations of Akhenaton and taken by Prof. Elliot Smith in the actual skull to be due to a slight degree of hydrocephalus, is regarded by Dr. Derry as a characteristic of Egyptian royalties.

Exhibition by the Royal Meteorological Society.

An exhibition is being arranged by the Royal Meteorological Society, to be held in the Geophysical Gallery of the Science Museum, South Kensington, by permission of the director, Sir Henry Lyons. The exhibits will include modern types of observing instruments approved by the Meteorological Office, such as the latest type of thermometer screen with steel stand, equipped with sheath thermometers; the sunshine recorder Mark II, with adjustments for level and azimuth; a new form of mountain rain-gauge which has been named the 'octapent' mountain raingauge; and a stream-lined wind-vane which embodies a number of new features—these are being lent by the director. Several stands of instruments of special interest will be shown by some of the leading British makers, among which will be a model anemometer, a new form of automatic pollution gauge, and examples of 'distant-reading' thermometers. A number of historic instruments will be shown, and another exhibit will illustrate the development of lightning conductors.

OTHER features of the exhibition will be a magnificent collection of cloud photographs, including a series arranged by Sir Gilbert Walker, showing recent work on the artificial production of cloud forms. There will be a small exhibit illustrating the teaching of weather study in schools. The exhibition will be opened at 5 P.M., on Jan. 11, when a short inaugural address will be given by Sir Napier Shaw in the lecture theatre. The exhibition will remain open for one month, during which public lectures will be given on Thursdays at 4.30 P.M. The programme as provisionally arranged is as follows: Jan. 14—Mr. D.

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