traced a possible connexion with the St. Samson who is the patron saint of the nearby Goland Church. A menhir known as the Castle Dore stone, which once stood near the camp, is also thought to be connected with King Mark under the name Conomonus or Quonomorius, while a doubtful interpretation of a much obliterated commemorative inscription would point to Tristan being his son and not his nephew. Other suggestions, derived from like sources, have been put forward, of connexion with figures of Arthurian tradition. Although it is scarcely to be expected that excavation will bring to light anything in the nature of concrete evidence to support the connexion, the body of tradition which clings to this valley of Fowey encourages the hope that it preserves a folk-memory of what was once an important centre of early civilisation.

International Cancer Congress

THE second International Congress of the Scientific and Social Campaign against Cancer will be held in Brussels on September 20-26. The Congress is under the patronage of His Majesty the King of the Belgians and of Her Majesty Queen Elizabeth, and has the support of the Government. The National Executive Committee consists of Dr. Lerat (chairman), president of the Belgian National League against Cancer, Profs. Delrez, Dustin, Goormaghtigh and Maisin, directors of the Anti-Cancer Centres of Liège, Brussels, Ghent and Louvain respectively; Dr. Sluys, president of the Belgian Society for Radiology; Dr. Timbal, director-general of the Government Department of Hygiene; Mr. H. Marchal, treasurer, and Mr. W. Schraenen, general secretary of the Belgian National League against Cancer and of the Congress. programme of the Congress has been divided into two main groups, embracing the scientific campaign and the social campaign against cancer, and the subjects on which official reports will be prepared and upon which individual communications are invited are grouped together under the following headings: (1) The experimental investigation of cancer, which comprises the study of carcinogenic substances, transmissible agents and viruses, growth substances, and factors of predisposition and resistance such as heredity, metabolism and immunity; (2) the diagnosis of cancer by histological, radiological and serological methods; (3) the treatment of cancer by surgical, medical and radiological methods. In the second group, on the social campaign against cancer, the subjects dealt with are: (1) Access of patients to diagnosis and treatment; (2) medicosocial assistance to incurable cases; (3) cancer and demography including statistics and racial incidence. The list of official rapporteurs is not yet complete, but among those who have agreed to present reports are: M. Borst, J. W. Cook, W. Cramer, H. F. Deelman, L. Dublin, A. P. Dustin, J. Ewing, W. E. Gye, H. Holthusen, E. L. Kennaway, J. Maisin, M. Nagayo, F. Pentimalli, Cl. Regaud, P. del Rio Hortega, G. Roussy, C. Rowntree, H. Schinz, F. Carter Wood. Further particulars may be obtained from Mr. W. Schraenen, General Secretary to the Congress, 13 rue de la Presse, Brussels, Belgium.

Colonial Administration

A SYMPOSIUM on "Peace and the Colonial Problem" published by the National Peace Council (39 Victoria Street, S.W.1. 6d.) contains the speeches delivered by Sir Arthur Salter, the Marquis of Lothian, Prof. N. Bentwich, Sir John Harris and others, at a Conference organised by the National Peace Council and held at the Livingstone Hall, Westminster, in October 1935. Sir Arthur Salter states that he considers that it would be both wrong and impracticable at this moment to transfer colonies to the dissatisfied countries of the world. He holds, however, that a remedy might be found in an extension of the mandate principle, whereby colonies would be held under a double trusteeship (1) to the inhabitants of the country and (2) to the world in general. Countries holding mandates should be responsible for the execution of their trusteeship to an international authority under a mandate, and the terms of this mandate should be extended so as to remove so far as possible the economic disabilities suffered by countries not possessing colonies.

PROF. NORMAN BENTWICH, in referring to the question of equality of economic opportunity, said that there should be real equality of opportunity for investment of capital and for obtaining concessions in the colonies. This would provide some alleviation of the economic grievances of those countries which are without colonies. He also advocated that the administrative services in colonies brought under mandate and in mandated territories should be open to the subjects of States other than the governing power. In Palestine it has been developed to some extent, and no difficulty has been found, for example, in working the medical or engineering services with persons coming from different countries. The adoption of a system of mandates and international responsibility would give an opportunity to foreign subjects and an assurance and a greater confidence to the native inhabitants of those countries.

Rapid Growth of the Use of Electricity

The annual report of the Electricity Commissioners for the year ended March 31, 1935 (H.M. Stationery Office. 3s.), records a noteworthy expansion of the public supply of electricity. There is an increase of 1,715 million units on the output of the previous year. This is the largest actual increase hitherto recorded, and is equivalent to a growth of 12.1 per cent. The expansion is largely due to the increase of the domestic load. The Commissioners point out that owing to the persistent demand for the facilities and amenities capable of being provided by a public supply of electricity, there will doubtless be a great increase in the present consumption before 'saturation point' will be reached. There will be a wide field of opportunity presented for the electrical and mechanical equipment of industry when the present factory generating plant and prime movers become obsolete. There are possibilities also attached to the further development of railway electrification. The steamdriven power stations included in the returns account for 95.5 per cent of the total units generated. The effect of the progressive improvements in steam power station practice which have taken place in the stations of authorised undertakers during the past four years alone is shown by the fact that the average number of electric units generated per ton of coal and coke consumed has risen from 1,200 in 1930 to 1,425 in 1934, an increase of more than 18 per cent. The Commissioners deprecate the custom of some public supply authorities, when advertising for tenders, of specifying that the particular plant or materials should be the product of a particular firm or group of manufacturers.

Thermal-Electric Stations

A strong case is made, in a paper read before the Institution of Civil Engineers on December 10 by Mr. S. B. Donkin, for the adoption, where possible, of the thermal-electric power station. The ordinary electric power station, using coal as a source of energy, has an overall thermal efficiency of about thirty per cent, whereas in a thermal-electric station which, besides supplying electric energy, also distributes the latent heat of the steam for domestic. horticultural and industrial heating, an overall efficiency of 60-70 per cent can be obtained. Where this system could be successfully adopted, it would solve the difficulty which is likely to arise if coal prices advance. That it is practicable is shown by the stations established in the United States, in the U.S.S.R. and elsewhere. Industrial plants operating on this system have been installed in England, but these are necessarily limited in effect to the requirements of the individual factory.

The success of a public station would depend upon maintaining a balance between the electricity demand and the heat demand, for the waste heat available rises and falls with the rate of electricity generation; as a general rule, the heat requirements would be greatest in the early part of the day, while the electricity peak occurs in the late afternoon; seasonal variations are much more marked. A solution might be found in the inter-connexion of the electric side with that of the authorised electrical undertaking in the district. It is admitted that such stations could not easily be established in our older manufacturing towns owing to the cost of installing the heatdistribution network in congested streets already provided with electricity, gas, water, sewerage and drainage services. Mr. Donkin claims, however, that in laying out new industrial areas it would be possible to arrange for the supply of heat and electricity from a combined thermal-electric station, high-grade heat being supplied for manufacturing purposes, medium for domestic uses and low-grade for horticultural needs. To attain the high thermal efficiency quoted, it is necessary to use boilers operating at pressures of 2,000 lb. per square inch or more. The paper includes the diagrammatic lay-out of an ideal industrial town planned on these lines, and reference is made to existing stations.

New Australia-Tasmania Submarine Cable

THE new submarine cable which was successfully laid across the Bass Strait last November marks a notable advance in the technique of submarine cable transmission. Before laying this cable, the Australian Government made a searching inquiry into the relative merits of radio and cable systems of communication, and came to the conclusion that for the objects in view the cable system was the more desirable as it is more trustworthy and easier to make the messages secret. In the Engineering Supplement to the Siemens Magazine of January, a technical description is given of this new cable. It links the telephone and telegraph service of the mainland of Australia with Tasmania. Its length of 161 nautical miles is divided into two sections. The northern section, 79 miles in length, joins King Island to Apollo Bay, Victoria, and then by overhead lines and underground cables joins the trunk exchange at Melbourne. The southern section from King Island goes to the northern coast of Tasmania and then by land line to the Launceston exchange. Inter-connexion is thus effected with the existing network of communications in Australia and This cable, although it has only one Tasmania. insulated conductor, allows no less than five telephone and seven high-speed telegraph channels to be operated simultaneously. In addition, it provides for the transmission of a broadcast programme. Subscribers in Tasmania can now communicate directly with Great Britain by telephone. adoption of a high-frequency carrier system was influenced by the fact that it is easy to repair. Cable ships are not always available for immediate service in Australian waters and this type of cable is the easiest to repair. There are already two carrier frequency submarine cables in operation. connects Teneriffe with Gran Canaria, a distance of forty miles, and the other Key-West to Havana, a distance of 109 miles. Both these cables operate only three telephone circuits.

Bats in Belfries and Elsewhere

The problem of eliminating bats from churchsteeples has puzzled many a churchwarden, and was responsible for the introduction to England of that unwelcome guest, the little owl. Solutions to that, and to the general problem of the roosting of bats in homes and occupied buildings, are offered by the United States Bureau of Biological Survey, in Leaflet 109 (Sept. 1935). The objection to the presence of bats is partly due to an aversion which many people feel towards them, but more substantially to the highly objectionable stench of the droppings and urine which collect where bats are roosting in numbers. There are two main lines of procedure in breaking up a bat-roost. The most satisfactory and the only permanent way is to make the building bat-proof by closing all entrances by strips of metal or wood or plugging them with rags (of course after the bats have left their roost in the evening). A good composition for larger openings is tarred hemp fibre such as is used for calking ships. The second method is sometimes simpler—the use of a repellant such as