

Liverpool Learned Societies

THE newly issued handbook of the Associated Learned Societies of Liverpool and District shows there are about four thousand members of the twenty-four scientific, industrial, literary, art and educational societies in the association. One of the largest of the industrial societies, the Liverpool Engineering Society, has some seven hundred members, and the Liverpool Naturalists' Field Club is the largest of the Nature and outdoor societies. Since the last handbook was issued ten years ago, the number of learned societies in the association has fallen by two. Local societies which have increased their membership in the past ten years are the British Association of Chemists, the Institute of Chemistry and the Liverpool Naturalists' Field Club; those that have remained at the same strength include the local branch of the Pharmaceutical Society and the Amateur Photographic Association, while those that have declined in membership somewhat include the Liverpool Botanical Society, Geological Society, Biological Society, Literary and Philosophical Society, Astronomical Society, Engineering Society, Lancashire and Cheshire Entomological Society, Society of Chemical Industry and the New Education Fellowship. The Associated Learned Societies of Liverpool and District was formed in 1922, though since 1880 there had been a scheme of co-operation between local societies, chiefly for staging annual exhibitions and soirées of their activities. The work of the present association includes holiday prize contests in the local schools, outdoor and indoor joint meetings of an educational nature, periodical public scientific exhibitions, lectures, etc., and various schemes for closer co-operation amongst the various learned societies of the district.

Research and the Jute Industry

THE prosperity of Bengal, both agricultural and industrial, is dependent very largely on jute, and the intense period of depression which has overtaken the industry since 1929 has caused widespread distress. The Agricultural Commission, of which the present Viceroy was chairman, in a strongly worded paragraph of its report, directed attention to the necessity for the application of scientific methods in the industry; the position has since been surveyed by Dr. S. G. Barker. In the March issue of *Science and Culture*, Dr. Barker's report is discussed. Dr. Barker has recommended a comprehensive scheme of research which includes the establishment of a laboratory with arrangements for the collection of general and technical information and for foreign representation. This new organization is estimated to cost £27,000 per annum, and it would be under the control of the Jute Mills Association. *Science and Culture* appears to doubt whether the control suggested by Dr. Barker is likely to prove successful, since it is feared that the mill owners may be prone to look for immediate financial returns. It is suggested that a scheme organized on the lines of the Indian Central Cotton Committee might be more advantageous. In view of the urgency of the problem, we regard the

nature of the controlling body to be of minor importance, since the success of the scheme will depend mainly upon the director of research and upon the personnel of the new laboratory. It is gratifying, therefore, to learn that the Government of India has already accepted Dr. Barker's proposals, and that it has appointed an Indian Central Jute Committee. The Committee will be financed by Government, which will place at its disposal approximately £30,000 per annum for a minimum period of five years. We extend a cordial welcome to this new research organization, which we have no doubt will do much to restore the ancient prosperity of Bengal.

Road Transport Vehicles

INSTRUCTIVE figures are given in *World Power* of June showing the relative progress made by the three principal types of road transport vehicles—tramways, motor-buses and trolley-buses. In 1930–31, tramways transported 72·7 per cent of all passengers, the motor-bus 24·2 per cent and the trolley-bus 3·1 per cent. In 1934–35 the figures were 59 per cent, 35 per cent and 6 per cent respectively. Although the tramways with 2,479 million passengers in 1934–35 still convey more persons than the motor-bus and trolley-bus combined, the decline of tramway passengers since 1930–31, when it was 3,018 millions, has been continuous. During the year 1935, the number of passengers carried by the trolley-buses was 255 millions, an increase of 36 per cent on the preceding year. The London Passenger Transport Board recently reported an increase of 20 per cent in the London area along trolley-bus routes. It has been calculated that an oil-driven bus would require a 250 horse-power engine to equal the performance of a 100 horse-power trolley-bus with a capacity of 36 seats carrying a full load up a 7 per cent gradient at a speed of 30 miles per hour. From the point of view of national economy, it is a pity, although trolley-bus progress is satisfactory, that it is not making more rapid headway. In the near future, it may be of primary importance to consume home-produced fuel to produce the necessary motive power for traction. When the traffic is very heavy, electric tramways are the most economical, but tram-cars often stop the traffic to unload passengers, whilst trolley-buses can unload them directly on the pavement.

A Horticultural Colour Chart

THE naming of colour is notoriously difficult, and it is unfortunate that the standard works by Ridgway, Oberthur and Dauthenay, and others, are either out of print or too expensive to have wide application. Gardeners are, perhaps, the community most in need of a comprehensive manual portraying accurate shades of colour, and the Royal Horticultural Society is to be congratulated upon its attempt to meet this pressing need. It is proposed to print a volume of a hundred colours, each in four shades, and, if successful, to follow it by a second volume of similar dimensions. The plates would be either loose in a cover, or held by a loose-leaf binder, and the estimated price is 10s.

per volume. This, however, may possibly be reduced if sufficient applications follow the prospectus now issued. A specimen sheet indicates that each colour would be named, and referred also to the British Colour Council's classification, to the "Repertoire des Couleurs", and to the standards of Ridgway and Ostwald. A brief history of the name appears, horticultural examples are cited, and French, German, Italian and Spanish synonyms are given. The chart should have great utility, not only in the garden, but also wherever colours have to be compared with accuracy. A preliminary application form is now available, and those interested should communicate with the Royal Horticultural Society, Vincent Square, S.W.1. It is expected that the first volume will appear towards the end of 1936 or early in 1937.

Medal Awards for Inventions

THE Council of the Institute of Patentees has decided to suspend the award of the Institute Bronze Medal and in place thereof to substitute the Institute's Silver Medal to rank equally with the Founder's Silver Medal. These medals will be awarded in each section of the Exhibition of Inventions to be opened in the Central Hall, Westminster, S.W.1 on September 30 and in Newcastle on November 25; therefore ten silver medals will be awarded throughout the five sub-sections of the New Inventions Section of the Exhibition. The Gold, Silver and Bronze Certificates will be awarded as in previous years. As the Institute proposes to organize a series of exhibitions throughout the country, it has been decided that the Grey-Wilson Memorial Gold Medal, supported by cash prize, together with the Yorkshire Medal, will be competed for during January of each year, the successful exhibitors at any Exhibition organized by the Institute being eligible to compete. The Yorkshire Medal is a new medal which was provided for under the will of the late Mr. Hoffman-Wood, an architect of Addingham, Yorkshire, who died three years ago, and the Institute will make recommendations annually to the trustees regarding its award. The medal is valued at twenty-five guineas, and sufficient funds are available for an award in perpetuity. The award of the Yorkshire Medal must be for an invention not relating to warfare.

International Naval Architecture and Marine Engineering

THE first international meeting of naval architects and marine engineers to be held in the United States takes place in New York on September 14-19, at which papers will be read dealing chiefly with safety of life at sea and large Atlantic liners. The Dominion of Canada, France, Germany, Great Britain, Italy, Japan, Spain and Sweden are sending delegations at the invitation of the Society of Naval Architects and Marine Engineers of New York. The British delegation, under the leadership of Lord Stonehaven, president of the Institution of Naval Architects, and Dr. J. T. Batey, president of the North-East Coast Institution of Engineers and Shipbuilders, will number about a hundred, including ladies, and will represent the Institution of Naval Architects, the

Institute of Marine Engineers, the Institution of Engineers and Shipbuilders in Scotland, and the North-East Coast Institution of Engineers and Shipbuilders.

International Congress of the History of Science

THE fourth International Congress of the History of Science will meet in Prague, in 1937, during the last week of September. The principal theme of the Congress will be "Science in the Eighteenth Century". The chairman of the Congress and of the Organizing Committee is Prof. Quido Vetter, the actual president of the International Academy of the History of Science. The announcement was made and discussed at the meeting of the Academy of the History of Science at Cluj (Rumania) in conjunction with the International Committee of Historians, in April last. During the meeting, several papers of great interest were read: (1) A. Mieli, "Our Present Knowledge of Arabian Science"; (2) Prof. A. Reymond (Lausanne), "Occult Sciences and Exact Science in Ancient Times"; (3) Prof. A. Singh (Lucknow), "History of Trigonometry in India"; and (4) Prof. V. Bologna (Cluj), "Foreign Influences on Rumanian Medicine". In a business session of the meeting, Drs. Reymond, Ulrich, Sergescu, Singh and Greenwood read reports on the organization of the teaching of the history of science in their various countries. The "Chronological Repertory of the Exact Sciences during the Sixteenth Century" was adopted for publication as a special number of the *Bulletin du Comité des Sciences Historiques*.

British School of Archæology at Athens

IN October next the British School of Archæology at Athens will celebrate the fiftieth anniversary of its foundation. As part of the celebration an exhibition will be held at the Royal Academy of Arts, Burlington House, London, to illustrate the discoveries in Greece and Crete, which have resulted from the work of the School. A special section of the exhibition will be devoted to the Minoan civilizations of Greece and the excavations at Knossos, which were conducted by Sir Arthur Evans, honorary student of the School, and in which the architects of the School took part. This section of the exhibition is being prepared by Sir Arthur Evans himself, with the facilities given him by the authorities of the Ashmolean Museum, Oxford, to which the antiquities brought from Knossos by Sir Arthur were entrusted. It is understood that the exhibition will be inaugurated by H.R.H. the Duke of Kent on October 13, at 3 p.m., and will be open to the public from October 14 until November 14. The occasion of the jubilee of the School will also be marked by a special fund which it is proposed to raise to enable the School to increase its staff, improve its library and accommodation, and provide for the needs of the graduates who are sent to Greece in increasing numbers for advanced study by the universities.

Congrès Préhistorique de France

It is announced that the twelfth session of the Congrès Préhistorique de France will be held at