

first M.B. teaching in the Zoological Laboratory at Cambridge, more than five thousand students passing through his hands. He declined preferment, for the low pay of those days made private coaching necessary, while there were then no grants available for his research purposes. He became steward of his College during 1914–23, finally being elected a fellow in 1931.

Meantime Brindley had attained high distinction in other fields. He was a keen member of the Cambridge Cruising Club, and his knowledge of ships was unsurpassed. Hardy (later Sir William) had him and Graham Kerr as crew on his *Raven*, when she was the first yacht to pass westward through the Kiel Canal. He was one of the founders of the Society for Nautical Research in 1911, and he never missed a council meeting for twenty-eight years. He was a prolific writer in its journal, his chief subject the

medieval ship. This and a love for St. Christopher led him to many ports and gave play to his artistic abilities, a study of medieval glass giving him great joy. He put his chief trust in engraved seals, and extended his research to every seaport in Europe. He arranged a special room for them in the National Maritime Museum at Greenwich, to which he gave his own unmatched collection. These settled the dates at which the rudder replaced the steering oar and the use of reef points. He was also an authority on primitive sailing craft.

Here was a character with a genius for friendship, equally at home in the discussions of art, literature and science, at first a noted contributor to the advance of biology, later a historian of nautical evolution, always the inimitable and humorous word-painter of the many noted personalities he had met, a real lover of life.

J. STANLEY GARDINER.

## NEWS and VIEWS

Prof. A. R. Todd, F.R.S.

PROF. A. R. TODD has been appointed professor of organic chemistry in the University of Cambridge as from September 1944. Prof. Todd received his early education at Allan Glen's School, Glasgow, and passed from there to the University of Glasgow where, after a brilliant academic career, he graduated in 1928 and commenced his first research under the direction of Prof. T. S. Patterson. In October of the following year he went to work with Prof. W. Borsche in the University at Frankfurt-am-Main, where as a Carnegie Research Scholar he studied the chemistry of certain bile acids, and in 1931 presented the results of this work in the form of a thesis for which he was afterwards awarded the degree of Ph.D. On his return to England, he was elected to a Senior Studentship of the Exhibition of 1851 and worked for the next three years in the research laboratory of Sir Robert Robinson at Oxford. For his researches on the synthesis of anthocyanins during this period he was awarded the degree of Ph.D. At the invitation of the late Prof. G. Barger, he moved from Oxford to Edinburgh in 1934 to take up the study of the chemical constitution of vitamin B<sub>1</sub>. The skill with which he led his team during this period and finally determined the structure of the vitamin, and of its fluorescent oxidation product, thiochrome, established his reputation as an outstanding organic chemist.

IN 1936 the Governing Body of the Lister Institute invited Dr. Todd to continue his researches in the Biochemical Department, and for the next two years he and his co-workers investigated the nature of the groupings responsible for the characteristic physiological action of vitamin B<sub>1</sub> and completed the synthesis of a number of compounds structurally related to the vitamin. Dr. Todd became a reader in biochemistry in the University of London in 1937. During his stay at the Lister Institute, he continued his researches on the constitution of the anti-sterility vitamin (vitamin E) and engaged in many other topics which included the chemistry of certain anthelmintic drugs and the active principles of *Cannabis indica*. In 1938 Dr. Todd was appointed professor of chemistry and director of the Chemical Laboratories in the University of Manchester, and with the increased facilities available at this famous

centre of research, he was able to engage in an ever-widening array of synthetic and constitutional problems. Prof. Todd was elected a fellow of the Royal Society in 1942. Chemists and biochemists throughout the country will wish him every success and happiness in his new appointment.

### Royal Commission on Population

IT is announced that the Royal Commission on Population has been constituted as follows: Lord Simon (*chairman*); Prof. A. M. Carr-Saunders, director of the London School of Economics; Sir Hubert Henderson, of the Treasury, formerly joint secretary to the Economic Advisory Council; Prof. A. W. M. Ellis, regius professor of medicine in the University of Oxford; Dr. Ethel Cassie, formerly senior assistant medical officer of health for maternity and child welfare, Birmingham; Lord Cranbrook, deputy regional commissioner for the Eastern Civil Defence Region; Lady Dollan, wife of a former Lord Provost of Glasgow; Mr. R. C. K. Ensor, research fellow of Corpus Christi College, Oxford; Mr. J. R. Hobhouse, of Messrs. Alfred Holt and Co., Ltd., Liverpool; Mrs. Margaret Jay, a member of the L.C.C.; Mrs. Gwen Longmoor, wife of a West Hartlepool factory worker; Mrs. G. P. Hopkin Morris, wife of the B.B.C. regional director for Wales; Lady Ogilvie, wife of the former director-general of the B.B.C.; Mrs. Helen Pawson, area representative for Wales of the W.V.S.; Mr. A. Roberts, general secretary of the Association of Card Blowing and Ring Room Operatives; and Mr. W. Dunkeld Robieson, editor of the *Glasgow Herald*.

Associated with the Royal Commission will be the three following technical committees: *Statistical Committee*: Prof. A. M. Carr Saunders (*chairman*), Mr. V. P. A. Derrick, Dr. D. V. Glass, Mr. R. R. Kuczynski, Mr. J. G. Kyd, Mr. H. Campion, Mr. A. Reeder, Dr. P. Stocks, Mr. F. A. A. Menzler and Mr. G. H. Maddex. *Economics Committee*: Sir Hubert Henderson (*chairman*), Mr. E. C. Ramsbotham, Prof. Alexander Gray, Prof. J. R. Hicks, Mr. W. B. Reddaway, and Mrs. Joan Robinson. *Biological and Medical Committee*: Prof. A. W. M. Ellis (*chairman*), Prof. E. D. Adrian, Prof. D. Baird, Dr. P. H. F. Bishop, Dr. C. P. Blacker, Mr. Eardley L. Holland, Dame Louise McIlroy, Dr. A. S. Parkes, Mr. E. W. Riches,

Sir Alexander Russell, Dr. P. Stocks and Dr. J. G. Thwaites. The secretary of the Royal Commission and of the three committees is Mr. N. F. McNicoll, of the Ministry of Health.

The terms of reference of the Royal Commission are to examine the facts relating to the present population trends in Great Britain; to investigate the causes of these trends and to consider their probable consequences; to consider what measures, if any, should be taken in the national interest to influence the future trend of population; and to make recommendations.

#### Lavoisier Statue in Paris

ACCORDING to the July 1943 issue of the French monthly philatelic review, *L'Echangiste Universel*, a copy of which has just reached Great Britain, a 4-franc postage stamp is being issued in commemoration of Lavoisier, the centenary of whose birth occurred on August 26, 1943 (see *NATURE*, Aug. 21, 1943, p. 207). Incidental reference is made to the removal "depuis un an" of the bronze statue of Lavoisier which stood at the north end of the Madeleine, not far from his town house (now rebuilt), 17 Boulevard de la Madeleine. *L'Echangiste Universel* appears to have no doubt about the fate of this superb monument—the work of Barrias—for its removal is attributed, with tactful obliquity, to the "service de la récupération des métaux", and the comment is added: "Pauvre Lavoisier connu à deux reprises, les vicissitudes de l'exécution capitale".

It will be remembered that Barrias adorned the pedestal of this beautiful work of art with two bronze reliefs, one of which depicted Lavoisier at work in his laboratory with Madame Lavoisier, his capable and devoted assistant, who is said to have learnt English so that she might translate for her husband the scientific papers of his great contemporaries, Cavendish and Priestley. In the other panel could be seen Lavoisier lecturing before the Paris Academy of Sciences, with Lagrange, Monge, Lavoisier, Condorcet and Laplace among his audience. Though the pedestal was standing when *L'Echangiste Universel* recorded the destruction of the statue, the activities of the "service de la récupération des métaux" in occupied countries would seem to indicate that Barrias' bronze panels, with the statue, may never be seen again.

#### New Mathematical Tables

THE many users and admirers of the New York Work Projects Administration Mathematical Tables always studied the impressive list at the end of each volume of further tables to be published, and looked forward to the time when much-needed values would be available. It was a great shock to them when President Roosevelt announced, towards the end of 1942, that all W.P.A. activities were to cease; it was hard to realize that such a great international asset as the wonderful New York team of computers—the greatest the world has ever known—was to be destroyed at a time when its proved usefulness might have been diverted to the war effort. Actually, although the greater part has been disbanded, a nucleus has remained in being to help the Service departments, under the sponsorship of the U.S. Bureau of Standards. Naturally there were, early in 1943, a great number of tables ready for press, but

not printed. It is with feelings of relief that we learn that the publication of these has now been provided for, and that four volumes have been announced already. The first gives reciprocals of the integers from 100,000 to 200,000, and thus extends the tables of Oakes (now unobtainable) and Cotsworth, which stop at 100,000. The second is a 10-place table of the Bessel functions  $J_0(z)$  and  $J_1(z)$  for complex arguments, giving real and imaginary parts for  $\phi=0(5^\circ)90^\circ$  and a range  $0(0.01)10$  of the modulus. The third table gives circular and hyperbolic tangents and cotangents to eight significant figures for  $x=0(0.0001)2$ ; it is thus a companion to the similar values of sines and cosines that appeared in 1939. The American practice of computing by calculating machines led to a revival some fifteen years ago of the Lagrangian interpolation formula. The new tables now provided give the coefficients for interpolating with any number of points (that is, tabular values) from 3 to 11. Incidentally, they include all the coefficients of Everett's central difference formula. The tables are to be issued by the Columbia Press, Ithaca, N.Y. (in Great Britain by Scientific Computing Service, Ltd., 23 Bedford Square, London, W.C.1).

#### British Medical Bulletin

IN 1940 the Medical Research Council, the Ministry of Information and the editorial department of the British Medical Association decided to send abroad abstracts of important articles in British medical journals, and Dr. Howard Jones was appointed to do this work under the direction of the editor of the *British Medical Journal*. By the end of 1941 a British Medical Information Service had been formed, and the British Council, which had supported the work from its inception, took it over as a permanent part of its work. The *British Medical Bulletin* is published in English, Turkish, Portuguese and Spanish, and Dr. Howard Jones, who is now a whole-time officer of the British Council, has made it a valuable addition to medical literature.

#### One Hundred Years at the Cincinnati Observatory

EVERETT L. YOWELL has an interesting article with the above title in *Sky and Telescope* (3, No. 2; December 1943). He gives an account of the development of the Observatory from the days when Ormsby MacKnight Mitchel resigned his professorship of mathematics, engineering and mechanics at Cincinnati College, and later, in the spring of 1842, started giving lectures on astronomy. These lectures were so well received that Mitchel announced his intention of building and equipping an observatory; and immediately he solicited membership for a society, each member to subscribe for a share at 25 dollars. It is remarkable that in spite of many initial difficulties—lack of funds in particular—Mitchel began the erection of the building with one carpenter and one mason as foremen, and on November 9, 1842, ex-President John Quincy Adams, then in his seventy-seventh year, laid the corner stone. In January 1845 the 11-inch refractor which Mitchel had purchased in Munich arrived; it was mounted in the spring of the same year.

As the Observatory was without endowment, Mitchel agreed to act as director for ten years without remuneration. Unfortunately, he had to devote a lot of time to lecturing at the College, which provided his only means of livelihood, and in consequence he