

modern applications of electricity to traction, by P. Dawson; the chloride battery, by W. H. Earle; extension and development of the telephone in agricultural districts, by Major-General Webber; telephony, by A. R. Bennett; the field telegraph in Chitral campaign, by P. V. Luke; a new portable photometer, by W. H. Preece and A. P. Trotter. Tuesday, 17.—Interim report of committee on standardising; modern flour-milling machinery, by F. W. Turner; paper-making machinery, by Mr. Mason; printing without use of movable types, by J. Southward; incandescent gas lamps, by C. Cooke; B.A. Standard small screws, by R. B. Compton; uniform factor of safety in steam boilers, by J. Key.

The provisional programme for Section H is as follows:—Thursday, September 12.—Address by Prof. Flinders Petrie; skulls of the aborigines of Jamaica, by Sir W. H. Flower; skulls of the Neolithic invaders of Egypt, by Dr. J. G. Garson; Andamanese, by Morris Portman; Neolithic invaders of Egypt, by Prof. Flinders Petrie. Friday, September 13.—Worked flints from South Africa, by H. W. Seton Karr; flint and metal working in Egypt, by Prof. Flinders Petrie; flints found at Thebes, by Gen. Pitt Rivers; plateau flints of North Kent, by B. Harrison;

#### A SOUVENIR OF "CHALLENGER" WORK.

A MEDAL has been prepared as a souvenir of the scientific work connected with the *Challenger* expedition. The medal, which is in bronze, is three inches in diameter, and was modelled by Mr. Birnie Rhind, sculptor, from designs by Mr. William S. Black, both of Edinburgh. It was cast in Paris, and is being presented by Dr. John Murray to the naval officers of the expedition, the contributors of memoirs to the report on the scientific results of the expedition, and to members of the civilian scientific staff, as a souvenir of *Challenger* work.

The accompanying illustrations have been reproduced from two photographs of the casts forwarded to us by Mr. Black, and show the two sides of the medal. On the front of the medal, the head of Athena with owl occupies the centre, and is placed on the globe, which in turn is surrounded by a border of water indicating the voyage of the expedition around the world. Out of the water rises Neptune, with trident and a trawl disclosing the treasures of the deep-sea. The decoration of the border is completed with a dolphin and two mer-



graving tools from terrace gravels of the Thames valley, by H. Stopes; Palæolithic projectiles, by the same; megaliths of Tripoli, by Swainson Cooper; kitchen midden at Hastings (report), by W. J. Lewis Abbott. Saturday, September 14.—North-west tribes of Canada (report), by Prof. E. B. Tylor; Samoyedes of the Arctic tundras, by A. Montefiore; language illustrating primitive warfare, by Rev. Hartwell Jones; ethnographical survey (report), by E. Sidney Hartland; deviations of children (report), by Dr. Warner. Monday, September 16.—Cannibalism, by Captain Hinde; folk-lore of Ipswich, by Miss Layard; ethnographical conclusions, by G. Laurence Gomme; general conclusions, by Edward Clodd; folk-lore illustrated, by Prof. Haddon; religious origin of dances, by Mrs. Grove. Tuesday, September 17.—On interference with the civilisation of other races, by Lord Stanmore, Prof. Douglas, Prof. Haddon, and Dr. R. N. Cust, and letters of the late R. L. Stevenson; southern Arabians, by Theodore Bent; the Eskimo, by F. Linklater and J. A. Fowler. Wednesday, September 18.—Lake village of Glastonbury (report), by Dr. R. Munro; prehistoric Greek idols, by Arthur Evans; Neolithic station of Butmir, by Dr. R. Munro.

NO. 1348, VOL. 52]

maids supporting a ribbon with the words "Voyage of H.M.S. *Challenger*, 1872-1876."

The back of the medal bears the crest of the *Challenger*—a mailed warrior throwing down the gauntlet to Neptune, whose trident appears above the waves. This central figure is surrounded by a scroll bearing the words, "Report on the Scientific Results of the *Challenger* Expedition, 1886-1895." The name of the recipient of each medal is engraved around the edge.

It is hardly necessary to say that the medal has been very much appreciated, and appears to have been received with special satisfaction by foreign contributors to the *Challenger* Report, who regard it as a pleasing recognition of their assistance in the great work which has now been completed.

#### DR. FRIEDRICH W. G. SPÖRER.

IN a recent number of NATURE we unfortunately had to record the loss of an astronomer, Dr. Friedrich Tietjen, who devoted himself to computation, or, we should say, to that branch of astronomy which deals with