

contributed by glacier thrust, certainly the general level character of the barrier surface would be maintained, provided that the barrier rests on a warm frictionless plane—the sea. If it rested on land, the bottom friction would be high, the temperature low, and the movement slight. On the other hand, the fact that there is little or no local thickening in the region of the outflow of land glaciers to the barrier must indicate an efficient water circulation beneath it. In that case, local thickening would involve local depression and increased local melting from below; thus the general surface level would be maintained. It is not possible to suppose that floating glacier tongues played no part in the formation of the barrier. Such tongues are common in the Antarctic and many of them extend far out to sea.

The barrier had probably a twofold origin. Numerous floating ice tongues from the large glaciers at the back of the Ross Sea were no doubt cemented together by sheets of sea-ice formed in situ in the areas between them. The latter process would entail the formation of sea-ice and precipitation of snow thereon at a rate exceeding that at which it melts below.

These conditions were certainly possible during the period of maximum glaciation, even if they do not now occur. Observations have shown that the rate of increase in thickness of sea-ice does not decrease largely as the thickness increases. This points to the fact that conduction of heat from below is not the sole cause of growth. At present there are sheltered positions in which sea-ice can form and maintain itself for more than one year. Mr. Wright, in discussing the mechanism of movement of ice, shows how uncertain and incomplete are our data for the rate of advance of the barrier, its snowfall and contributions to its mass from land glaciers.

University and Educational Intelligence.

ABERDEEN.—The University Court has resolved to institute a lectureship in clinical chemistry.

Dr. Alexander Bowman has been appointed lecturer on the scientific study of fisheries.

CAMBRIDGE.—The Statutory Commissioners have been approached by a number of members of the Senate on the question of the retiring age for professors, which was fixed in the recommendations of the Royal Commission at 65 years. The Commissioners favour the proposal that the Board of Electors to a professorship may, when a professor reaches the age of sixty-five, invite him to hold office up to an age not exceeding seventy, if it is believed that the interests of the University will best be served thereby. The Board of Electors is to be precluded from making any fresh election of a professor who is already more than 65 years of age, but if a candidate is elected who is over sixty, he may be elected to hold office up to the age of seventy.

Mr. W. B. R. King, Magdalene College, has been reappointed assistant to the Woodwardian professor of geology. On the nomination of the Department of Scientific and Industrial Research, Sir Joseph Broodbank is being appointed to the committee of management of the Low Temperature Station for Research in Biochemistry and Biophysics.

The Special Board for Mathematics has reported to the Senate, asking the University to take steps to enable the Tyson Medal to be struck in bronze, instead of in gold as at present, and to be accompanied by a prize in money.

The Board for Engineering Studies has recommended certain changes in the regulations for the

Mechanical Sciences Tripos, including the sub-division of certain of the advanced subjects necessary for a First Class. Thus electricity and magnetism is replaced by electric power and electric signalling, and theory of structures and strength of materials by theory of structures (civil) and theory of structures (mechanical). Mechanics of machines also figures for the first time as a separate subject. It is proposed also to establish jointly with the University of Birmingham a diploma in coal-mining engineering, for which the general course of engineering at Cambridge should count as part of the training, this course to be followed by four months' practical experience in a coal mine and a year's course in mining at the University of Birmingham.

EDINBURGH.—At the meeting of the University Court on Monday, January 19, the resignation of Sir Harold J. Stiles, Regius professor of clinical surgery in the University, to take effect on March 20, was announced. The Principal expressed the great regret which was felt by the Court, the high appreciation of the eminent services which Sir Harold Stiles had rendered to the University, and the sense of the deep loss which would be sustained upon his retirement, not by the Court alone but by the University as a whole.

The Library of the Geology Department of the University has been indebted for a number of years to the late Sir Archibald Geikie for donations of valuable geological literature. The last consignment has recently been received from his daughters. This Library was gradually built up and strengthened by the Geikie brothers who in turn filled the chair of geology.

LONDON.—A course of eight free public lectures on "The Chemistry of the Internal Secretions" will be given by Mr. E. C. Dodds, at the Middlesex Hospital Medical School, at 5 o'clock, on February 3, 5, 10, 12, 17, 19, 26, and March 3; one of four by Dr. J. Duncan Scott, on "The Medullary Centres," at the Physiology Department of St. Bartholomew's Hospital Medical College, 6 Giltspur Street, E.C., at 5 o'clock, on February 11, 18, 25, and March 4; and one of four by Sir William I. de Courcy Wheeler, at St. Bartholomew's Hospital Medical College, at 5 o'clock, on February 16, 17, 18, and 19, on "Some Practical Considerations and Experiences in the Conservative Treatment of Fractures of the Pelvis and the Lower Extremity." Two courses of free public lectures at Birkbeck College are announced, namely, four, by Dr. G. G. Coulton, on "Medieval Education" (February 2, 9, 16, and 23), and three, by Prof. E. N. da C. Andrade, on "The Structure of the Atom" (February 5, 12, and 19). The lecture hour in each case will be 5.30, and no tickets will be required.

ST. ANDREWS.—The degree of Ph.D. has been conferred on Mr. G. R. Ross for a thesis entitled "The Serological and Immunological Characteristics of Tubercle Bacilli after Extraction with Fat Solvents."

APPLICATIONS are invited for two lectureships at University College, Leicester, viz. in physics and in chemistry. The applications must reach the secretary of the college by February 13 at latest.

DR. WALTER MAKOWER has been appointed professor of science at the Royal Military Academy, in succession to Prof. J. Young, retired. Dr. de Moulpied, who was to have filled this post, resigned without taking up the appointment. Dr. Walter Makower, who was lately chief physicist to the Dunlop Rubber Company, was for many years lecturer in physics at the University of Manchester.