

ture, will preside over it, and Lord Jersey and Mr. Gill will be among its members.

It is announced that the *Proceedings of the Royal Society* is henceforth to be brought out in a new form. It will assume royal octavo size, and be printed in larger type than is the case at present. Also two series will appear in future, one embracing mathematical and physical papers, the other biological papers, and each part will be on sale to the public separately.

At a meeting of the Zoological Society of London on April 18, Dr. W. J. Holland, F.Z.S., director of the Carnegie Museum and Institute, Pittsburg, U.S.A., gave an account, illustrated by stereopticon slides, of the discovery of the skeleton of *Diplodocus carnegii* Hatcher, a reproduction of which he was installing in the Gallery of Reptiles at the British Museum (Natural History), South Kensington. After paying tribute to the generosity of Mr. Andrew Carnegie, who had supplied the funds necessary for the extensive explorations which were being carried on by the Carnegie Institute, under the direction of the speaker, he went on to speak of the geology of Wyoming and of the immediate locality, where the specimen was obtained. He incidentally described the methods employed by American collectors to secure vertebrate fossils in fine condition. He then discussed the osteology of *Diplodocus*, briefly pointing out some of the more interesting structural features of the skeleton, and in this connection animadverted upon certain so-called 'restorations' made public in popular magazines and emanating from artists whose artistic ability was quite in excess of their scientific knowledge. Dr. Holland concluded his account by exhibiting in rapid succession pictures of a few of the more remarkable skeletons which had been recovered by the paleontological staff of the Carnegie Museum from various localities in the region of the Rocky Mountains. At the same meeting Dr. Smith Woodward, F.R.S., read a paper on a unique specimen of *Cetiosaurus leedsi*, a Sauropodous Dinosaur from the Oxford Clay of Peterborough. He described the fore and hind limbs and the tail,

and confirmed the observation of the late Professor O. C. Marsh, that *Cetiosaurus* was one of the more generalized Sauropoda.

MR. EDWIN C. ECKEL, of the United States Geological Survey has just completed a report on the cement materials and industry of the United States. In view of the phenomenally rapid growth of the cement industry within recent years, the publication of this report is exceptionally timely. In collecting data for it, Mr. Eckel visited every district in which cement is produced and examined nearly every plant in operation. Information relating to undeveloped deposits of cement materials was obtained by personal examination and from the published and unpublished work of other geologists. The discussion is in four parts, the first relating to the materials and manufacture of Portland cement, the second to Portland cement resources of the United States, the third to natural cement resources of the United States, and the fourth to the materials and manufacture of Puzzolan or slag cement. Few people realize how manifold are the uses of cement. In its importance to our present civilization it is surpassed among mineral products only by iron, coal and oil. In rate of increase in annual production during the last decade even these three products can not be compared with it. In 1890 the total production of Portland cement in the United States was 335,500 barrels, valued at \$439,050; in 1903 it exceeded 22,000,000 barrels, while the value was over \$27,000,000.

UNIVERSITY AND EDUCATIONAL NEWS.

THE proposed affiliation or alliance of the Massachusetts Institute of Technology with Harvard University was approved at a meeting of the corporation of the institute on June 9. Thirty-two of the forty-seven members of the corporation were present, and by a vote of 20 to 12 it was agreed to accept the terms of the agreement recently drawn up by the committee of the two institutions. Before the agreement can become effective the corporation and overseers of Harvard University must take action and several legal questions must be passed upon by the courts. It will

be remembered that on May 5 the faculty of the institute adopted by a vote of 56 to 7 the report of the committee adverse to the affiliation. A full account of the report adopted by the faculty and of the minority report, together with an account of the meeting of the alumni on May 4 has been published in a special issue of *The Technology Review*.

GENERAL WILLIAM J. PALMER, of Colorado Springs, Col., and Mr. Andrew Carnegie have donated respectively \$100,000 and \$50,000 as a nucleus to the \$500,000 endowment fund for Colorado College.

At the Commencement exercises of the Catholic University of America the rector, Mgr. O'Connell, stated that the university possesses, untouched by the Waggaman failure, assets and resources valued at \$1,003,801. The bishops' collection ordered by the pope has resulted in \$113,550 being turned into the treasury from 77 dioceses. A contingent fund of \$200,000 has been raised since the Waggaman failure and has been invested in railroad bonds.

EARL B. LOVELL, adjunct professor of civil engineering at Columbia University has been appointed director of the College of Civil Engineering, at Cornell University, as successor to the late Professor E. A. Fuertes.

DR. RALPH HAMILTON CURTISS, lately Carnegie assistant at the Lick Observatory, has been appointed assistant professor of astronomy at the University of Western Pennsylvania.

IN accordance with the tutorial system adopted by Princeton University, preceptors with the grade of assistant professor have been appointed in the department of philosophy and psychology as follows: Professor R. B. Johnson, of Miami University; Dr. Adam Leroy Jones, of Columbia University; Professor W. T. Marvin, of Western Reserve University; Dr. Wilmon H. Sheldon, of Columbia University, and Dr. E. G. Spaulding, of the College of the City of New York.

THE following appointments have been made in the scientific departments of the University of North Carolina: T. F. Hickerson,

instructor in mathematics; J. C. Hines, Jr., assistant in physics; E. B. Jeffress and B. H. Perry, assistants in geology; W. H. Kibler, B. F. Royal, T. P. Cheshire, assistants in biology; E. E. Randolph, C. W. Martin, L. M. Kelly, G. L. Paddisson, assistants in chemistry.

DR. JAMES BISSELL PRATT has been appointed instructor in philosophy and psychology, at Williams College.

Two fellowships of the value of \$500 each, granted annually by the Woman's College of Baltimore, have this year been awarded to Miss Sabina Claire Ackerman, Easton, Pa., who will study chemistry at the University of Pennsylvania, and to Miss Sara White Cull, who will study biology at Columbia University. Other awards in science were as follows: The two scholarships at the Marine Biological Laboratory, at Woods Hole, Mass., to Miss Katie M. Brough, of Hanover, Pa., and to Miss Mary J. Hogue, of West Chester, Pa., both members of the graduating class. Three Woman's College scholarships, established at the Cold Spring Harbor Marine Laboratory of the Brooklyn Institute of Arts and Sciences, to Miss Ethel Nicholson Browne, Miss Hettie Cole Caldwell and Miss Maude Cecil Gunther, of Baltimore, members of the junior class.

MR. CLARENCE MORGAN (Harvard) has been appointed to the new chair of railway transportation at McGill University, and H. H. Mackay (Dalhousie) has been appointed assistant professor of civil engineering.

MR. WILLIAM FINDLAY, tutor in mathematics at Columbia University, has been appointed professor of mathematics at McMaster University, Canada.

MR. A. R. LORD, B.A. Oxon., assistant to the professor of moral philosophy and lecturer on political science in Aberdeen University, has been appointed professor of philosophy and history in the Rhodes University College, Grahamstown, Cape Colony.

MR. EDWARD P. CULVERWELL, M.A., fellow of Trinity College, Dublin, has been appointed to the new chair of education in the university.