

ing an address will be given by Professor W. Stroud on 'Range-Finders.' The Mayor and Corporation will give another large conversazione on Tuesday evening, and on the Wednesday evening a concert will take place in St. George's Hall with the Permanent Orchestra and the Festival Choral Society, under the conductorship of Mr. Fredk. Cowan.

During the week there will be a textile exhibition at the Technical College, which will illustrate the various processes of the local industries, and the machinery employed can be seen in motion. There will be a reception at the College on Thursday afternoon, September 6th, and the smoking concert in honor of the President will also be given at the Technical College, after Professor Gotch's lecture on Friday.

Excursions to places of interest in the neighborhood will be made on Saturday, the 8th, and on Thursday, the 13th; among the places selected are Bolton Priory, Ripon and Fountains Abbey, Malham, Clapham and Ingleton, the Nidd Valley, Farnley Hall, Haworth, Ilkley, Knaresboro' and Harrogate. In addition to a number of smaller guides to the places to which excursions are to be made, the usual guide book will be provided by the Publications Committee. This book will be divided mainly into three sections. The first will deal with the history of Bradford and the development of the Bradford trade, the second section with the Bradford industries and institutions, and the third part, which is under the sectional editorship of Mr. J. E. Wilson, will deal with the scientific material of the locality, the flora, fauna, geology, meteorology, climate and public health. There will be in addition a number of pages devoted to the topography of the district, for which Mr. J. H. Hastings is responsible.

#### SCIENTIFIC NOTES AND NEWS.

ON June 12th and 13th the delegates to the conference on the International Catalogue of Scientific Literature met in the rooms of the Royal Society, London.

THE American Academy of Arts and Sciences has elected Sir Archibald Geikie, F.R.S., an

honorary foreign member in the place of the late Carl Friedrich Rammelsberg.

PROFESSOR CHARLES F. CHANDLER, of Columbia University, and Professor J. Mark Baldwin, of Princeton University, have been given by Oxford University its newly created D.Sc. degree.

THE degree of doctor of engineering has been conferred on Mr. J. Elfreth Watkins, of the U. S. National Museum, by the Stevens Institute of Technology, in recognition of his long and valuable studies in the history of the development of railroad engineering in the United States.

At the last meeting of the Royal Society of Edinburgh, according to *Nature*, the following were elected as British Honorary Fellows: Dr. Edward Caird, master of Balliol College, Oxford; Dr. David Ferrier, professor of neuropathology, King's College, London; Dr. G. F. Fitzgerald, professor of natural and experimental philosophy, Trinity College, Dublin; Dr. Andrew Russell Forsyth, Sadlerian professor of pure mathematics in the University of Cambridge; Dr. Archibald Liversidge, professor of chemistry in the University of Sydney; Dr. T. E. Thorpe, principal of the Government Laboratories, London; and, as Foreign Honorary Fellows: Dr. Arthur Auwers, secretary, Royal Prussian Academy of Sciences; Professor Wilhelm His, Leipzig; and Professor Adolf Ritter von Baeyer, Munich.

DR. S. GABRIEL has been appointed assistant director in the newly built chemical laboratory of the University of Berlin.

THE managers of the Royal Institution, London, on the occasion of the retirement from office of the honorary secretary, passed a unanimous resolution to place on permanent record an expression of their high appreciation of the admirable way in which he has performed the duties of that office, and of his signal services to the Institution generally.

THE formal opening by Lord Lister of the new clinical laboratories at the Westminster Hospital took place on June 12th. Among those present were Sir John Wolfe Barry, Chairman of the House Committee, Lord Kelvin, Dr. Church, the President of the Royal College of

Physicians, Sir William MacCormac, the President of the Royal College of Surgeons; Sir John Burdon Sanderson, Bart., Sir Michael Foster, K.C.B., M.P., and Sir Joseph Fayrer, Bart, K.C.S.I.

WE learn from the Philadelphia *Medical Journal* that Dr. W. W. Keen has raised a \$50,000 library fund for the College of Physicians of that city.

MR. J. S. BUDGETT has been awarded a grant of £50 from the Balfour Fund of Cambridge University to aid him in his zoological researches.

PROFESSOR W. B. CLARK, of the Johns Hopkins University has been appointed by the Governor of Maryland, Commissioner on behalf of the State of Maryland to act with a similar Commissioner on behalf of the State of Pennsylvania and the Superintendent of the U. S. Coast and Geodetic Survey in the reestablishment of the old historic Mason and Dixon line, in part forming the boundary between Maryland and Pennsylvania. This famous line, so long regarded as the boundary between the north and south was run by two English surveyors, Mason and Dixon, between the years 1764-68, and was marked throughout its eastern portion by granite monuments brought from England that had cut on their southern faces the arms of Lord Baltimore and on the northern the arms of the Penns. It was by far the most extensive engineering work of colonial days. The old line is now very obscure because of the destruction of many of the monuments and property interests are suffering as the result. It is the purpose of the new Survey to redetermine and properly remark the old line.

THE Director of the United States Geological Survey, says the New Haven correspondent of the New York *Evening Post*, has placed Professor H. S. Williams, of Yale University, in charge of the mapping, areal geology and preparation of the geological folios of the middle section of Connecticut, including the topographical sheets of Granby, Hartford, Meriden, Middletown, New Haven, and Guilford. Those west of the seventy-third meridian are already under way, in charge of Professor Hobbs, of

Wisconsin University. Dr. H. E. Gregory, assistant to Professor Williams, has done the field work on the crystalline rocks of the Granby and Middletown sheets, and will work during the summer on the crystallines of the Meriden sheet, and the triassic areas of the Connecticut valley in general. The triassic and crystalline work will probably be finished this year. The region to be covered is an exceedingly interesting one in this State, with its volcanic remnants, dikes, terraces, pot-holes and glacial boulders, and moraines in the area already partly covered by the investigations of Dana.

AFTER thirty-seven years' service as secretary to the Paleontographical Society (London) the Rev. Thos. Wittshire has retired from that office. The present position of this Society is mainly due to the influence of Mr. Wittshire, as was recognized some time ago by those of his admirers and others who presented him with a testimonial in the form of his own portrait in oils. The council has requested Dr. A. Smith Woodward, of the British Museum, to join the Society for the purpose of taking over the secretarial and editorial duties. It is no doubt hoped that Dr. Smith Woodward's eminence as a paleontologist and experience as a writer will attract to the Society the numerous British paleontologists who have hitherto manifested their interest in its good work by criticism unaccompanied by subscriptions. He will have no easy task to please all critics: those who stigmatize as 'paving-stone paleontology' the descriptions of local faunas by enthusiasts who are anything but zoological specialists; and those whose lack of patience (or other quality) does not permit them to master the elaborate zoological investigations of restricted groups of fossils, and whose love of ease sets them in opposition to new conceptions and the new language in which they are perforce expressed.

*Nature* states that the president of the British Board of Education has approved of a committee, which is now sitting, "to inquire into the organization and staff of the Geological Survey and Museum of Practical Geology; to report on the progress of the Survey since 1881; to suggest the changes in staff and arrange-

ments necessary for bringing the Survey in its more general features to a speedy and satisfactory termination, having regard especially to its economic importance; and, further, to report on the desirability, or otherwise, of transferring the Survey to another public department." The members of the committee are: The Right Hon. J. L. Wharton, M.P. (chairman), Mr. Stephen E. Spring Rice, C.B., Mr. T. H. Elliott, C.B., General Festing, C.B., Dr. H. F. Parsons, Mr. W. T. Blanford, F.R.S., and Professor C. Lapworth, F.R.S., with Mr. A. E. Cooper as secretary.

At a meeting of the Board of University Studies of the Johns Hopkins University held May 23, 1900, the following minute in regard to the death of Professor Thomas Craig was unanimously adopted:

"The members of the Board of University Studies of the Johns Hopkins University desire to express their sorrow at the death of their friend and colleague, Professor Thomas Craig, who, as student and teacher of mathematics, had been connected with the University for nearly the entire period of its existence. One of the brilliant young men whom Professor Sylvester attracted to the University in its early days he won straightway the favorable notice of that eminent man for the enthusiasm and intellectual acumen with which he entered upon the study of advanced mathematics, then almost an unknown science in this country; and this fortunate combination of interest, energy, and ability characterized his entire career. At the time of his death he was occupied in the preparation of a treatise on the Theory of Surfaces. Undoubtedly the intense ardor with which he engaged in this work contributed in large measure to that impairment of the nervous system from which he had recently suffered. Professor Craig possessed great power of research, and wrote much for various mathematical journals. For many years he was editor of the *American Journal of Mathematics*, and it is largely due to his zeal and able direction that that Journal continues to hold its high rank in the mathematical world. Professor Craig occupied a place in the very front rank of American mathematicians. His scientific ideals were the highest, and as teacher, editor, and investigator, he brought to his work a high degree of originality, and an intellectual ardor which was a source of inspiration to all with whom he was closely associated."

WALTER PERCY SLADEN, formerly zoological secretary of the Linnean Society of London, died

at Florence on June 11th. Mr. Sladen wrote the Report on the Asteroidea dredged by the *Challenger*, and numerous papers on recent fossil Echinoderms. A monograph by him on the British Cretaceous Asteroidea was in course of publication by the Paleontographical Society. Some years ago Mr. Sladen had an attack of the so-called influenza, and the effects of that combined with the cares of an estate to which he recently succeeded, checked his activity as a zoologist. One of his last pieces of work was the revision of the sections on star fish, and sea urchins in Dr. Eastman's edition of Zittel's 'Paleontology.' His British colleagues will miss not only a leader in a difficult branch of zoology, but a genial personality.

WE regret also to record the death of Professor Mortiz Löw, Chief of Division in the Geodetic Institute of Potsdam and of Dr. Julius Althaus the well known physician and neurologist.

WE learn from *Nature* that a meeting was held at the Meteorological Society on May 31st to consider the question of a memorial of the late Mr. G. J. Symons, F.R.S. It was resolved that the memorial should take the form of a gold medal, to be awarded from time to time by the Council of the Royal Meteorological Society for distinguished work in connection with meteorological science. An executive committee was appointed to take the necessary steps to raise a fund for this purpose. Contributions will be received by the Assistant Secretary, Mr. W. Marriott.

DR. DONALDSON SMITH has returned to London from his journey across the unexplored tract of country between Lake Rudolph and the White Nile. The London correspondent of the *New York Evening Post* states that he was the first white man to reach the river, approaching it from the Somali coast, and travelling almost due west. He started on the 1st of August, 1899, and reached Fort Berkeley, near Lado, on the 17th of March, 1900. Dr. Smith says that he came through almost entirely unmolested by natives; had no occasion to fire a shot in self-defence, and lost only two men out of the small force of eighteen Goorkhas who formed his escort, this being the first time ex-

soldiers of the Indian army have accompanied an expedition of this character. On reaching the Nile, Smith sent his men with Mr. Fraser, the naturalist, home by way of Uganda and Mombasa, while he himself stayed at the fort for six weeks, and returned with Major Peake's expedition, by way of Khartum to Cairo. In addition to important geographical observations Dr. Smith obtained a large and valuable collection of specimens of the fauna of Central Africa.

THE second meeting of the Latin-American Scientific Congress will be held at Montevideo from March 20th to March 31st, 1901. The work of the Congress will be divided among nine sections.

THE annual meeting of the Italian Botanical Society will be held at Venice on September 9th-15th, under the presidency of Sig. Sommier.

IN view of the great importance of the scientific publications of Messrs. D. Appleton & Co. we are glad to learn that plans for the reorganization of the company and for the continuance of the business have been announced by the reorganization committee, of which James G. Cameron, vice-president of the Fourth National Bank, is chairman. The valuation of the assets is placed at \$3,224,787.18. The liabilities are \$1,346,696.78. The plan of reorganization provides for the unifying of the title and ownership of the three business establishments into the new corporation of D. Appleton & Co. The capitalization of the new company will be negotiable gold notes, six per cent. for \$1,400,000, syndicate notes for \$250,000, and capital stock, \$3,000,000. General creditors are to be paid 25 per cent. in cash, and 75 per cent. in the six per cent. negotiable mortgage gold notes. The preferred obligations, such as taxes, wages, interest on mortgage, royalties, etc., amounting to \$176,698.78, are to be paid in full. A cash working capital of \$250,000 is to be provided. It is said that Mr. William H. Appleton will be made president of the new company and Mr. James G. Cameron chairman of the board of directors.

MR. P. STRICKLAND, United States Consul, writes from Gorée Dakar, under date of May

1st, that an exposition has just been held at Dakar which was of interest, as it was probably the first of its kind in the colony, if not in intertropical Africa. The exposition was opened with ceremonies and speeches appropriate for the occasion on the 15th of March, and closed on the 14th of April. There were exhibited, among other things, the animals of the country, including ostriches; specimens of rubber, gums, nuts, and most of the other products; fish and native gear for catching it; native jewelry, some of which is very fine; hides and skins, including bird skins for mounting on hats; furniture made in the country; native woods, etc. All the objects were artistically displayed in the beautiful park at Dakar, and, in order to encourage the natives to visit it, no entrance fee was charged. The exposition was very successful. It may be noted that the government is doing everything to encourage agriculture in the colony, and has imported seeds from the rubber trees of Brazil for free distribution among those willing to plant them.

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#### UNIVERSITY AND EDUCATIONAL NEWS.

PRESIDENT FAUNCE announced at the commencement of Brown University that the amount needed to complete the million dollar endowment fund had been subscribed. The gifts received during the week immediately preceding commencement include one of \$50,000 from Mr. Frank A. Sayles, of Pawtucket, as a memorial to his mother and sister, and \$25,000 from Marsden J. Perry, of Providence. Numerous smaller sums were also received, bringing the total amount up to the sum of \$1,096,106.

THE reversionary interest of Harvard University, Williams College and the Public Library at Springfield, Mass., in the estate of David A. Wells will amount to about \$70,000 each.

AT the commencement of Mt. Holyoke College, it was announced that the amount collected for the second endowment fund had already reached the sum of \$75,000 of which \$50,000 is contributed by Dr. D. K. Pearson, of Chicago. A letter was received from Mr. John Dwight, of New York, offering to give \$60,000 for a memorial building to be built on the site