

in the Gulf states and in Central America, will correspond with him and send him material. Investigators already engaged in mosquito work, like Dr. John B. Smith, of Rutgers College, and Professor Glenn W. Herrick, of the Mississippi Agricultural College, will co-operate, it is hoped.

#### SCIENTIFIC NOTES AND NEWS.

THE University of London will, on June 24, confer the honorary degree of Doctor of Science on Lord Kelvin and on Lord Lister.

PROFESSOR THEODORE BOVERI, of the University of Würzburg, and Professor W. M. Wheeler, who has recently accepted a call from the University of Texas to the American Museum of Natural History, have been elected correspondents of the Philadelphia Academy of Natural Science.

THE Donohoe comet-medals of the Astronomical Society of the Pacific have been awarded to M. Michel Giacobini, astronomer, Nice, France, for his discoveries of unexpected comets on December 2, 1902, and January 15, 1903.

DR. OSKAR UHLWORM, director of the German bureau of the International Catalogue of Scientific Literature, has been given the title of professor.

REAR-ADMIRAL J. G. WALKER, General P. C. Hains, Major William M. Black and Professor William H. Burr, the members of the American commission which is to make an inspection of the Panama Canal route, have arrived at the Isthmus.

AMONG the American physicians who have gone to Madrid to attend the International Medical Congress are Dr. Abraham Jacobi, of New York City; Dr. Nicholas Senn, of Chicago; Dr. Howard Kelly, of Baltimore; and Surgeon-General R. S. Reilly, U.S.A.

PROFESSOR L. G. CARPENTER, of the department of Civil and Irrigation Engineering of Colorado Agricultural College, has been granted a temporary leave of absence in order to act as state engineer of Colorado, which includes lines of work much the same as have been carried on in connection with the work of the experiment station. In the meantime

Professor Carpenter will retain his connection with the experiment station and have supervisory control of the Department of Civil and Irrigation Engineering at the college.

MR. J. W. BAIRD, Ph.D. (Cornell), has been appointed by the trustees of the Carnegie Institution to a research assistantship in psychology with Professor Titchener for the academic year 1903-4.

A PORTRAIT of Dr. Richard Caton, the first professor of physiology in University College, Liverpool, has been presented to the college.

PLANS are being made to erect a monument to the philosopher Kant in Berlin, to be unveiled on the occasion of the hundredth anniversary of his death, in 1904.

DR. ALBERT HUNTINGTON CHESTER, professor of chemistry and mineralogy at Rutgers College, died on April 13, at the age of sixty years. He graduated from the Columbia School of Mines in 1868 and later took the degree of Doctor of Philosophy from the same institution. Before going to Rutgers College in 1891, he was for twenty-one years professor at Hamilton College.

DR. G. A. RUNGE, assistant director of the Meteorological Institute at Copenhagen, died on March 28.

WE learn from Professor George E. Hale that Miss Helen E. Snow, of Chicago, has provided for the reconstruction of the coelostat reflecting telescope of the Yerkes Observatory as a memorial to her father, the late George W. Snow. The telescope will be provided with solar and stellar spectrographs, spectroheliographs and other important accessories. It will be remembered that the coelostat reflector which the new telescope is to replace was seriously injured by fire last December, giving rise to erroneous but widespread statements that the main building of the Yerkes Observatory, as well as the 40-inch refractor, had been destroyed.

THE directors of the Benjamin Apthorp Gould fund have appropriated the sum of \$400 in aid of the determinations of stellar parallax, in progress at the Washburn Observatory.

THE board of aldermen of New York City have voted \$75,000 for the New York Zoological Society for the erection of a new ostrich house and for quarters for the mammals.

AT the session of the legislature of the state of New Jersey, which has just ended, provision was made to carry out the law passed the year previously, which authorized an investigation into the habits of the mosquitoes infesting the state, and experiments looking towards their destruction. An appropriation of nine thousand dollars was made, of which five thousand is available during the current season and four thousand during the season of 1904. The investigation is placed in charge of the State Experiment Station, and Professor John B. Smith has been appointed to make it. Active field work is already in progress and much has been learned concerning the early habits of some of the species infesting marsh lands. It is intended to devote most of the time during the present year to the coastal areas and to the outskirts of the larger cities.

MR. ANDREW CARNEGIE has offered Cleveland \$250,000 for the establishment of seven branch libraries, providing the city gives the sites and an annual appropriation of \$25,000 a year. The library board has accepted the offer.

Two research studentships, of the value of £150 a year each—one in physics and one in biology—will be awarded this year by the Royal Society. Applications are to be made by June 1 to the assistant secretary of the Royal Society, Burlington House, London, W.

THE Danish parliament has appropriated \$1,000,000 for new buildings for the Medical School and Hospital of the University of Copenhagen.

REUTER'S Agency is informed that Dr. T. Rubin, of Upsala, the leader of the scientific expedition which has been despatched to Africa by the British South Africa Company, has left England. He was accompanied by Dr. Stoehr, the medical officer. After conferring with Sir David Gill, the astronomer-royal at Cape Town, Dr. Rubin and the other members of the expedition, who will join him

in South Africa, will leave for Chinde *en route* for Fort Jameson. He will then confer with the administrator of Northeast Rhodesia, and at once proceed to the work of the geodetic survey.

FOUR members of the German Antarctic expedition, which left Germany in August, 1901, have arrived at Sydney, N. S. W., from Kerguelen Island, where during eighteen months this detached party, under the leadership of Dr. Werth, pursued its investigations.

THE marine laboratory of the Zoological Department of the University of California which has been located at San Pedro, California, during the past two years, will be moved to San Diego for the next year. The investigations carried on during the coming year by the laboratory will be chiefly on the plankton of San Diego Bay and the adjacent waters. Funds for carrying on the work of the station are furnished by the chamber of commerce of San Diego.

A NEW botanical and horticultural laboratory which has been established by the Royal Botanic Society in connection with its school in Regent's Park was opened on April 1. The building, which has been fitted up, will accommodate about thirty students.

WE learn from the London *Times* that the program of the annual meeting of the Iron and Steel Institute of Great Britain (to be held at Westminster on May 7 and 8) promises to be more than usually interesting. Mr. Andrew Carnegie's inaugural address will deal with the great organizations of capital and labor in the world, and particularly with reference to American industrial problems. Mr. Carnegie will also present Sir James Kitson, M.P., with the Bessemer gold medal for his services to the iron and steel industries of Great Britain. The work of the research scholars endowed by Mr. Carnegie will also be submitted. The following papers will be read: Mr. Talbot, of Leeds, will give the results obtained by making steel from a 200-ton furnace by a continuous process; Mr. Keller, of Paris, will describe the successful manufacture of steel in the electric furnace; and C. von Schwarz, of Liège, will show how blast furnace slag

can be made into Portland cement; Mr. C. Mercader, of the Carnegie Works at Pittsburgh, will for the first time in public describe the plant for manufacturing hollow pressed axles for railroads.

THE subject for the Adams prize of Cambridge University, open to all persons who have at any time been admitted to a degree, is: "Wave motion of finite amplitude and unchanging type, in deep water. Hitherto only one type of such motion has been discovered, that of Gerstner and Rankine, which involves vorticity; it is suggested that on examination this might be found to be a special case of a more general solution. No exact solution has hitherto been obtained in which the motion is irrotational; it is desirable that the question should be examined whether the known approximate solution is in fact an approximation to a permanent state of motion. In default of a conclusive answer to the above questions, any considerable advance in the theory of the subject, apart from an extension of the known approximations, is desirable." The successful candidate will receive about £225. The essays must be sent to the vice-chancellor on or before December 16, 1904.

IN accordance with the provisions of the charter, the by-laws of the British Academy have been allowed by the Privy Council. The by-laws regulate the number of fellows, the council, sectional committees, general meetings, election of fellows and preliminary arrangements. The number of ordinary fellows is fixed at one hundred as a maximum limit, but it shall not be necessary to complete that number. The International Association of Academies has unanimously agreed to the admission of the association as a constituent academy in the philosophico-historic section. Lord Reay (president of the academy) has been nominated by the academy as a member of the International Council. Mr. Bryce, Sir R. C. Jebb and Professor Pelham have been appointed to represent the academy at the forthcoming International Congress of Historical Studies, to be held in Rome. The fellows of the academy are distributed under four main sectional committees, each section

having its own chairman: (1) History and Archeology, chairman, Mr. Bryce; (2) Philology, chairman, Sir R. C. Jebb; (3) Philosophy, chairman, Dr. Edward Caird; (4) Jurisprudence and Economics, chairman, Sir C. P. Ilbert.

THE International Agricultural Congress was inaugurated at Rome on April 13 in the presence of King Victor Emmanuel and Queen Helena. About 1,800 delegates were present. The American representatives are Dr. Daniel E. Salmon, chief of the United States Bureau of Animal Industry, and Henry E. Alvord, chief of the Dairy Division of that bureau.

A UNIVERSAL Exposition of Sciences, Arts and Industries will be held at Liège, Belgium, in the year 1905.

THE American Electrochemical Society held its third general meeting in New York, on April 16 to 18.

THE Spokane Science Club, of Spokane, Wash., held a meeting on March 10, at which papers were read by Mr. J. Y. McMullen, on DeVries' mutation theory and Mendel's law and by Mr. E. Channing Moore on the hydrocarbons. The correspondent who sends us this information calls attention to the value of such local clubs for scientific study and urges their establishment wherever possible.

ON May 6 there will be civil service examinations for the positions of assayer in the Mint Bureau, Treasury Department, at a salary of \$2,200; for the position of editorial clerk in the Geological Survey at a salary of \$1,500, and for the position of clerk in nutrition investigations, Office of Experiment Stations, Department of Agriculture, at a salary of from \$720 to \$1,000. On May 26 and 27 there will be an examination for the position of forest draftsman in the Bureau of Forestry, Department of Agriculture, at a salary of \$900.

MESSRS. CHARLES SCRIBNER'S SONS announce that they have arranged for the publication of a 'Library of Historical Psychology,' under the editorial supervision of Professor James Mark Baldwin, LL.D., of Princeton Univer-

sity. The library is to comprise a series of volumes on the history of the various topics of psychological thought from the earliest times, each volume being an independent work, but the whole constituting an encyclopedic 'History of Psychology'—a work never adequately carried out in any language. The arrangements for the volumes of the library—of which there will be twelve or more—are now being perfected, and the publishers expect to make early announcement of certain of the titles, names of writers, etc.

THE following are the spring lecture arrangements at the Royal Institution: Professor Allan Macfadyen, three lectures on the blood and some of its problems; Professor G. H. Darwin, two lectures on the astronomical influence of the tides (the Tyndall lectures); Professor E. J. Garwood, two lectures on the work of ice as a geological agent; Professor Dewar, three lectures on hydrogen: gaseous, liquid and solid; Professor S. H. Vines, two lectures on proteid-digestion in plants; Professor J. A. Fleming, two lectures on electric resonance and wireless telegraphy; Professor Langton Douglas, two lectures on the early art of Siena; Mr. Hamish MacCunn, two lectures on music (with musical illustrations); and Professor Silvanus P. Thompson, two lectures on the De Magnete and its author, (1) the book, (2) the man. The Friday evening meetings will be resumed on April 24, when a discourse will be given by the Hon. R. J. Strutt on some recent investigations on electrical conduction. Succeeding discourses will probably be given by Professor William J. Pope, Mr. Rider Haggard, Dr. D. H. Scott, Dr. J. A. H. Murray, the Prince of Monaco and others.

#### UNIVERSITY AND EDUCATIONAL NEWS.

It is now officially announced that Mrs. Elizabeth Milbank Anderson gave on April 17, \$1,000,000 to Barnard College, Columbia University, to purchase the three blocks of land adjoining Columbia College on the south and Barnard College on the west. Mr. Joseph Pulitzer has given \$15,000 for scholarships to the university.

MR. ANDREW CARNEGIE has given \$250,000 for an extension of the Mechanics and Tradesmen's Institute, New York City.

DR. D. K. PEARSONS, of Chicago, celebrated his eighty-third birthday on April 14, by making anniversary gifts to two colleges, Winter Park, Florida, \$50,000 and Kingfisher College, Oklahoma, \$25,000.

THE Colorado Agricultural College will soon erect a building for the Department of Civil and Irrigation Engineering. This building will include also the offices of the Experiment Station during 1903-4. An appropriation of \$40,000 has been made by the Colorado State Legislature.

MR. JOHN D. ROCKEFELLER has offered to pay two thirds of the cost of a building for the University of Nebraska to be used for social and religious purposes, on condition that the remaining third of the \$100,000 be contributed within about a year.

MRS. HELEN F. ACKLEY has left to Wesleyan University a bequest of \$2,000, the income from which is to be used for the benefit of one or more women students; if at any time the trustees of the college refuse to accord women the same privileges in the university as the men, the fund is to revert to the residuary legatee.

THE will of A. C. Hutchinson, leaving a large sum to the Medical Department of Tulane University, has been sustained by the courts.

PROFESSOR ELMER E. BROWN, head of the Department of Education at the University of California, has been elected dean of the School of Pedagogy at New York University.

MR. JOEL STEBBINS, fellow in the Lick Observatory, University of California, has been appointed instructor in astronomy, University of Illinois, and officer in charge of the observatory.

MR. G. F. STOUT, Wilde reader in mental philosophy at Oxford University and editor of *Mind*, has been elected to the chair of philosophy and metaphysics at the University of St. Andrews, vacant by the death of Professor Ritchie.