

and two assistants are in residence throughout the year and are prepared to furnish material and supplies to investigators. Naturalists who wish to carry on research in the winter and spring at Woods Hole should apply for accommodations to the director of the Marine Biological Laboratory, Professor C. O. Whitman, or to the assistant director, Professor Frank R. Lillie, University of Chicago, Ill. The regular season for investigators opens in June when the summer laboratories will be ready for occupancy.

The Carnegie Institution has subscribed for twenty rooms for the season of 1905. Applicants for the use of these rooms should address the president of the Carnegie Institution, Washington, D. C., stating the general character of the work they propose to do, and the period for which the room is desired. Applications should be made as early as possible, as the rooms are generally all in use during July and August. Thirty-five other private rooms are reserved for investigators. Applications for these rooms should state the time of desired occupancy and any special needs, and should be sent to the director before May 1. All private rooms are supplied with reagents, glassware, etc., and carry with them the usual privileges in regard to supplies and aquaria and assistance in collecting material.

The regular session for students will begin on Wednesday, June 28, and will continue for six weeks. Courses in invertebrate zoology, in the life histories of marine animals, in physiology and in botany are offered. The annual announcement for 1905 will be ready on or before March 1, and may be procured from Professor Frank R. Lillie, the University of Chicago, Ill.

SCIENTIFIC NOTES AND NEWS.

PROFESSOR RAPHAEL PUMPELLE was elected president of the Geological Society of America at the recent Philadelphia meeting.

THE officers of the American Anthropological Association for the ensuing year are: *President*, Professor Frederic W. Putnam, of Harvard University; *Secretary*, Mr. George Grant MacCurdy, of Yale University; *Treas-*

urer, Mr. B. T. B. Hyde, of New York; *Editor*, Mr. F. W. Hodge, of the Smithsonian Institution.

THE annual meeting of the National Geographic Society was held at Washington on January 13. Eight members of the board of managers were elected to serve for three years as follows: Alexander Graham Bell, Alfred H. Brooks, Henry Gannett, General A. W. Greely, Gilbert H. Grosvenor, Angelo Heilprin, O. H. Tittmann and General John M. Wilson. The report of the secretary, Hon. O. P. Austin, showed that the present membership of the society is 3,400, of whom 1,125 are residents of Washington and 2,275 distributed throughout the United States, Alaska, Philippines, Europe, Asia and Africa. The net gain in membership for 1904 was 789. During 1904 the society held twelve scientific meetings, sixteen special meetings, and four field meetings.

PROFESSOR E. WARBURG, director of the physical laboratory of the University of Berlin, has been appointed president of the Reichsanstalt.

DR. LIVINGSTON FARRAND, professor of anthropology at Columbia University, has been placed in charge of the work of the National Association for the Study and Prevention of Tuberculosis.

DR. MILTON J. GREENMAN, assistant director of the Wistar Institute of Anatomy and Biology of the University of Pennsylvania, has been elected director to succeed Dr. Horace Jayne.

THE Russian Geographical Society has conferred its Count Lütke medal on Sir John Murray.

PROFESSOR WILLIAM H. BURR and Mr. William Barclay Parsons, members of the Isthmian Canal Commission, have sailed for Panama on the steamer *Orizaba*.

DR. CHARLES M. CHILD, of the department of zoology of the University of Chicago, is spending the winter quarter in research at Hopkins Seaside Laboratory of Stanford University, Pacific Grove, Cal., and at the San Diego Laboratory of the University of California.

DR. G. R. PARKIN has returned to superintend the election of Rhodes scholars for 1905 throughout the United States and Canada.

PROFESSOR BOYCE and the members of the malarial expedition who left Liverpool for West Africa some time ago are returning on a steamer, which left Sierra Leone on January 8 for Liverpool.

PROFESSOR FRIEDRICH BRAUER, director of the Zoological Department of the Natural History Museum at Vienna, and Professor T. H. Fuchs, director of the Geological and Paleontological Department, have retired.

At a meeting of the Institution of Civil Engineers, on January 10, Sir William White gave an account of the visit paid to the United States and Canada by the institution last year during his term of office as president.

A CONFERENCE on school hygiene has been arranged by the Royal Sanitary Institute to be held under the presidency of Sir Arthur Rücker in the University of London from February 7 to 10.

DR. WESTBROOK, of Minneapolis, was elected president of the American Public Health Association at the recent Havana meeting.

DR. HANS H. MEYER, professor of pharmacology in the University of Vienna, has accepted an invitation to deliver the second course of Herter lectures at the Johns Hopkins Medical School next October.

MR. JOSEPH CHAMBERLAIN will preside at the banquet of the Liverpool School of Tropical Medicine to be held on May 10.

DR. L. COURVOISIER, assistant in the observatory near Heidelberg, has been appointed observer in the Royal Observatory at Berlin.

THE deaths are announced of Dr. Carl Otto Weber, an authority on the chemistry of india-rubber; of Mr. George H. Harris, an agent of the Division of Entomology, U. S. Department of Agriculture; of E. G. T. Lueder, a botanist, and of Professor Frank A. Leach, a teacher of science.

THE deaths are reported of Dr. Anton Müttrich, professor of physics at the School of Forestry at Eberswalde, at the age of seventy-one years, and of Dr. Jacob Walz, pro-

fessor of botany at Odessa, at the age of sixty-three years.

WE learn from *Nature* of the deaths of Mr. G. W. Hemming, a mathematician, at the age of eighty-four years, and of Mr. Robert Harris Valpy, geologist, at the age of eighty-five years.

THE French government has recommended an appropriation of \$200,000 for the International Congress of Tuberculosis to be held shortly in Paris.

THE third International Congress of Philosophy will be held at Heidelberg in 1908.

AN International Association of Anatomists will be established at a meeting to be held at Geneva from August 7 to 10 of the present year. The initiative has been taken by the anatomists of the Swiss universities and has the support of the anatomical societies of Germany, Great Britain, France, Italy and America.

THE German Astronomical Society offers a prize of 1,000 Marks for the most exact calculation of the next appearance of Halley's comet. The paper may be written in English and need not be presented until the end of the year 1908.

THE Henry Saxon Snell prize was founded to encourage improvements in the construction or adaptation of sanitary appliances, and is to be awarded by the council of the Royal Sanitary Institute at intervals of three years, the funds being provided by the legacy left by the late Mr. Henry Saxon Snell. The first prize, which will consist of £50 and a medal of the institute, is offered in the year 1905 for an essay on 'Domestic sanitary appliances, with suggestions for their improvement.'

THE U. S. Civil Service Commission announces examinations on January 30 for positions under the Isthmian Canal Commission, including those of assistant civil engineer at salaries of \$200, \$225 and \$250 per month.

ACCORDING to *Terrestrial Magnetism and Atmospheric Electricity*, the efforts of Professors Beattie and Morrison towards securing magnetic data in South Africa are receiving adequate recognition. The magnetic survey was

originally started by them in the summer of 1897-8 at their own expense. Since then grants have been received from various sources and assistance has been rendered by various organizations and persons. The work has been zealously prosecuted so that there are now 362 stations distributed over Cape Colony, Transvaal, Orange River Colony, Natal and Rhodesia. There still remained, however, the northwest of Cape Colony and for the completion of this work the Cape government voted for the current year £200 and the Royal Society of London £250.

THE library of the American Museum of Natural History has been given the private scientific library of Professor H. C. Bumpus, the director of the museum, amounting to more than three hundred volumes and twenty-seven hundred pamphlets. This collection is especially rich in works in comparative anatomy and brings to the library many valuable works and rare reprints not heretofore owned by the museum.

MEDICAL papers state that with the advance of the cold weather, plague is again growing worse in Upper India. For the week ending December 3 the United Provinces had 4,425 deaths, an increase of 1,000 on the total of the previous week; the Punjab, 2,446, an increase of 400; Mysore, 1,157, an increase of nearly 600; Hyderabad State, 768, an increase of 200. In the Bombay Presidency there were 6,770 deaths, an increase of 300. Elsewhere throughout India the disease remains about as before.

At Cornell University, January 17, before the conference or seminary of the department of neurology and vertebrate zoology, Mr. A. H. Wright, '04, gave an account of his collections and observations as to the fish fauna of Monroe County during the past two summers. Notwithstanding a previous survey, Mr. Wright has added eight species to the seventy-four already known from the Ontario basin, and thirty-two to the forty-two previously recorded for Munroe County. There was shown a combined table and diagram exhibiting, for a single creek eleven miles long, the varying conditions, mile by mile, as to the depth of

the water, the contour and nature of the bottom, the rapidity of the current, and the range of the twenty-six species found in it. It appeared that in a given stream the lower, more sluggish and muddy portions are frequented by the larger and less active fish, while the smaller and more active live in the upper portions where the current is swifter and the bottom gravel or sand.

MR. MORRIS K. JESUP, president of the Peary Arctic Club, by order of the board of directors, has issued the following appeal for funds to aid in the equipment of the new expedition which is to start under command of Commander Peary next summer:

There is an opportunity, offering strong probabilities of success, of securing for the country and this city, the honor and enduring fame of accomplishing a work of large and world-wide interest and value.

The Peary Arctic Club has been incorporated under the laws of the State of New York, for the purpose of aiding Commander Peary in his persistent efforts to complete the geographical conquest of the large unknown area of the North Polar basin, and secure for this country, if possible, the honor of attaining the extreme top of the earth.

The club has had subscribed, principally from its own membership, about \$55,000, and, in order to avoid delay which would be fatal, has assumed the responsibility of contracting for, and is now building, a special ship of exceptional strength and powerful engines, to be completed about March 1, 1905.

This ship is the first ever constructed in this country for Arctic discovery.

Additional funds to the amount of \$100,000 are necessary for the completion of the ship and equipment of the expedition, and it is not believed that the public-spirited men of means in this great country, and particularly this city, from which the expedition will start, will permit so broad and laudable an enterprise to fail for lack of so comparatively small an amount of money. The club cordially invites your cooperation in this enterprise, and hopes that you will contribute to the funds needed. Subscriptions for any amount will be gladly received.

Very respectfully,

MORRIS K. JESUP,
President Peary Arctic Club.

THE American Forest Congress, which met at Washington from January 2 to 6, passed resolutions as follows: Urging on Congress and all legislative bodies full protection and preservation of the forest, especially protection from fire; advising reduction of taxation on lands held for forest reproduction, so as to induce forest conservation; urging the repeal of the timber and stone act; advising the guarded sale of timber-growing on public lands; favoring in case of lieu land selections an exchange for lands of equivalent value or of similar condition of forest growth; advocating the immediate consolidation of all government forest work, including the administration of the National Forest Reserves, in the Department of Agriculture; favoring the passage of a law which will authorize the sale of all non-mineral products of the forest reserves, the proceeds to be applied to the management and protection of the reserves and to road and trail construction within them; that Congress appropriate adequate sums for the promotion of forest education and experiment work in all agricultural colleges and experiment stations in the United States; that opportunities be increased for general forest education in schools and colleges, and for professional training in post-graduate schools; urging the establishment of national forest reserves in the Southern Appalachians and in the White Mountains; that Congress declare forfeited all right-of-way permits not exercised promptly on issuance, and secure to all industries engaged in lawful business and which will promptly use their permits, the possession of necessary rights of way similar to those of railroads and irrigation companies, reasonable payment to be exacted for the use of rights of way on forest reserves and other public lands; that all state legislatures provide laws and financial aid to consolidate the rural schools in units sufficiently large that forestry, agriculture and home economics may be successfully taught by precept, example and practical work; and protesting against the attempted reduction of

the area of the Minnesota National Forest Reserve.

UNIVERSITY AND EDUCATIONAL NEWS.

MR. HIRAM W. SIBLEY, of Rochester, has given \$5,000 to Hobart College.

By the will of the late W. H. Baldwin, Jr., Harvard University receives \$2,000 and Tuskegee Normal Industrial Institute \$1,000.

A CHINESE viceroy has provided five scholarships for Chinese students at the University of California.

MCGILL UNIVERSITY, Montreal, received during 1904 from a friend resident in the United States renewal of his donation of \$400 for a fellowship in electricity.

THE University of Missouri has issued a bulletin showing the growth of the university from December 31, 1890, to December 31, 1903. The statistical summary is as follows:

	1890.	1903.
Seminary fund (endowment).....	\$540,000	\$1,240,000
From U. S. Government (yearly)	\$29,150	\$38,438
Annual income (for all purposes).....	\$122,255	\$479,835
Buildings, books, and equipment.....	\$360,000	\$1,600,000
Students enrolled.....	510	1,649
Professors, Assistant Professors, and Instructors.....	38	100

DR. JAMES B. ANGELL, president of the University of Michigan, has presented his resignation to the regents of the university, but they have unanimously declined to accept it and offer to supply him with such assistance as he may need. Dr. Angell, celebrated his seventy-sixth birthday on January 7.

DR. PAUL L. SERREL has been appointed to an assistant professorship of mathematics at the College of the City of New York.

PROFESSOR G. BODLÄNDER, of the Technological Institute of Brunswick, has been called to the chair of physical chemistry at Göttingen, vacant by the removal of Professor Nernst to Berlin.

PROFESSOR JOSEPH PARTSCH, professor of geography at Breslau, has been called to Leipzig.

DR. EMIL Wiechert has been promoted to a professorship of geophysics at Göttingen.