lace-making and embroidery, and they have ascertained that the demand for the kind of work their children can turn out is practically unlimited. In an effort to increase the available supply of teachers for the work, courses in lace-making and embroidery have been offered in the Philippine Normal School since 1910, and also in the various vacation assemblies of teachers.

The first thing a Filipino girl does in the sewing class in school is to make for herself a complete outfit of clothing. This work she usually begins in the second grade, but sometimes in the first or third. Armed with an embroidery frame and other apparatus (in most cases made by the boys in the same school), she advances in proficiency through the various grades; hemming and embroidering cotton squares, fine linen, handkerchiefs, waists, and so on. The more expert girls turn out masterpieces in French net and embroidery. In lace they make all varieties of "pillow lace," including "torchon" (Spanish lace), Maltese, Ceylon or Indian, Irish crochet, etc. Battenburg is also made for local use, but it is not encouraged for export, because the Japanese can make it more cheaply.

An idea of the extent of industrial education in the Philippines may be gained from the fact that nearly 400,000 school pupils are engaged in some kind of industrial work. For the past four years industrial instruction has been prescribed in the primary course for both boys and girls, and the work is systematically carried on in an advanced stage in the intermediate schools. Twenty-six well-equipped trade schools have been established in Manila and the various provinces; there is a college of agriculture at Los Banos, and a college of engineering has been added to the University of the Philippines. The Filipinos take to the educational program, industrial and otherwise, quickly and profitably; and the civil government finds its duties much less onerous now that the military invasion of the islands has been superseded by the educational.

GRADUATES FROM AMERICAN COLLEGES AND UNIVERSITIES

THE Boston *Transcript* has printed an article by Mr. Henry T. Claus, who gives the number of degrees conferred by 47 colleges and universities as follows:

College	Total No. Degrees in 1912	Total in 1902	Total in 1911
Allegheny	63	35	64
Amherst	95	97	96
Bates	91	57	92
Bowdoin	98	55	85
Brown	210	187	193
Bryn Mawr	77	68	70
Carnegie Tech	242	..	189
Clark	58	..	35
Colby	69	38	38
Colgate	72	37	48
Columbia	1,504	788	1,334
Grinnell	76	51	83
Hamilton	47	..	30
Harvard	1,000	1,033	1,003
Indiana University	372	124	347
Lehigh	85	45	95
M. A. C.	83	22	43
Middlebury	55	19	55
M. I. T.	286	200	253
Mount Holyoke	167	101	134
New York University	583	339	545
Northwestern	591	506	574
Ohio State	501	141	422
Penn State	266	28	247
Princeton	327	291	268
Radcliffe	117	100	84
Rensselaer	118	21	71
Rutgers	75	72	73
Simmons	95	..	73
Smith	372	229	360
Swarthmore	63	52	68
Syracuse University	480	207	417
Trinity	36	29	36
Tufts	238	137	214
Union	60	38	49
University of Cincinnati	191	121	158
University of Illinois	858	511	798
University of Maine	109	67	133
University of Michigan	1,143	858	1,093
University of Missouri	432	153	383
University of Pennsylvania	828	521	850
University of Pittsburgh	284	170	260
University of Vermont	96	80	109
Wellesley	299	155	289
Williams	93	67	97
Worcester Polytechnic	77	44	77
Yale	855	583	904

THE HARPSWELL LABORATORY

THE following persons have carried on investigations during the summer of 1912 at the Harpswell Laboratory:

Franklin D. Barker, associate professor of zoology in the University of Nebraska.

George A. Bates, professor of histology, Tufts College Medical School.

Henry B. Bigelow, assistant in the Museum of Comparative Zoology, Harvard University.

Margaret H. Cook, instructor in zoology, Wellesley College.

Ulric Dahlgren, professor of biology, Princeton University.

Charles H. Danforth, instructor in anatomy, Washington University.

Vincent Gregg, preparator in histology, Princeton University.

Robert W. Hall, professor of biology, Lehigh University.

Duncan S. Johnson, professor of botany, Johns Hopkins University.

W. O. Redman King, demonstrator in zoology, University of Leeds, England.

J. S. Kingsley, professor of zoology, Tufts College.

F. D. Lambert, associate professor of biology, Tufts College.

H. V. Neal, professor of biology, Knox College.

H. D. Senior, professor of anatomy, University and Bellevue Medical College.

L. E. Thacher, student, Tufts College.

Caroline B. Thompson, associate professor of zoology, Wellesley College.

Hardolph Wasteneys, assistant, Rockefeller Institute for Medical Research.

SCIENTIFIC NOTES AND NEWS

Sir W. H. White has been elected president of the British Association for the Advancement of Science for the meeting to be held next year in Birmingham.

Fordham University has conferred the honorary degree of LL.D. on Drs. Henry Head, of London, Carl Jung, of Zurich, Nicolas Achucarro, of Madrid, and H. R. Storer, of Newport, R. I.

On Thursday afternoon, September 12, 1912, at the Brooklyn Botanic Garden, a sweet gum tree (*Liquidambar Styraciflua*) was planted in the local flora section of the garden, by Professor Hugo de Vries, of Amsterdam. About one hundred invited guests were present at the exercises. A dinner was given in Professor de Vries's honor at 6 o'clock, and in the evening he delivered a lecture, under the joint auspices of the garden and the department of botany of the Brooklyn Institute of Arts and Sciences, on "Plant Breeding in the Botanic Garden of Amsterdam."

Dr. George Santayana, professor of philosophy at Harvard University, has resigned.

Mr. A. Wendell Jackson, who has arranged a loan of $50,000,000 to China, in opposition to the offers of the financiers of the six great powers, is a mining engineer who was formerly professor of mineralogy and economic geology at the University of California. He is a fellow of the American Association for the Advancement of Science and a fellow of the Geological Society of America.

Dr. Jean Mascart, of the Observatory at Paris, has been appointed director of the Observatory at Lyons, as successor to M. André.

Dean Milo S. Ketchum, of the College of Engineering of the University of Colorado, was recently elected president of the Colorado Association of Members of the American Society of Civil Engineers.

At the meeting of the Missouri Section of the American Chemical Society, held Friday evening, July 26, in the chemistry lecture room, University of Missouri, Mr. N. W. Arthur, research chemist of the General Electric Co., Schenectady, N. Y., spoke on a new electric furnace and new electric furnace products as SiO-monax and monas.

Dr. W. J. G. Land, of the botanical staff of the University of Chicago, sailed from San Francisco on August 27, for a trip of four months in the Hawaiian, Samoan, Fiji and Tongo Islands, with probably an extension through the New Hebrides to Australia. The chief purpose of the trip is to investigate the bryophytic flora and to secure critical material of it for morphological study. Incidentally, research material in other groups also will be secured.

Mr. and Mrs. C. William Beebe have returned from a three months' trip to Europe in the course of which the pheasants in the