

Princeton has undisputed first place on a list of the institutions at which the fellowship-holders elected to study. These are the figures for certain of the leading institutions in the three sciences:

PLACE SELECTED FOR ADVANCED RESEARCH

Past and Active Fellows

Princeton	104	Hopkins	17
Harvard	85	Yale	15
C. I. T.	79	Wisconsin	12
Chicago	52	Cornell	9
California	40	Columbia	8
M. I. T.	33	Michigan	8

The two tables above can be combined to give an approximate statement of the universities' standing. There are rarely duplications between the two lists:

COMBINED TABLE

Past and Active Fellows

Princeton	147	M. I. T.	47
Harvard	120	Yale	37
C. I. T.	110	Wisconsin	35
Chicago	97	Cornell	25
California	77	Columbia	24
Hopkins	48	Michigan	22

Counting only the fellows active at the present time, Princeton also enjoys first position, indicating that the record of the past is being maintained.

COMBINED TABLE

Active Fellows

Princeton	18	Wisconsin	5
Harvard	12	Chicago	4
California	11	N. Y. U.	4
C. I. T.	11	Columbia	3
M. I. T.	11	Cornell	3
Hopkins	8	Brown	2
Illinois	6	Iowa	2
		Yale	2

California has the best record in physics among this year's fellows, three of its doctors holding fellowships at other universities, and four men from elsewhere having elected to study at Berkeley. Second place in physics this year goes to California Institute of Technology, and third to Massachusetts Institute of Technology. Princeton, New York University and Wisconsin are tied for fourth.

The Massachusetts Institute of Technology is first in chemistry and is followed by California Institute of Technology, Harvard, California, Princeton and Wisconsin.

In mathematics Princeton is followed by Brown, Harvard, Hopkins and Chicago.

ENGINEERING IN THE SUMMER SESSION OF COLUMBIA UNIVERSITY

DURING the thirty-sixth Summer Session of Columbia University, which begins on July 8 and continues until August 16, instruction will be given in chemical, civil, drafting, electrical and household engineering.

Professor Arthur W. Hixson will be in charge of work in chemical engineering. With Professor Lincoln T. Work he will supervise a chemical engineering laboratory in which a thorough experimental study will be made of the basic operations employed in chemical manufacturing plants. Professor William D. Turner will conduct a course in the Chandler Laboratories on the application of chemistry in industry. Industries producing chemicals, using chemical methods or involving chemical control of process will be studied. The course is also designed for teachers of general chemistry in high schools and colleges who wish an up-to-date knowledge of practical chemistry as a means of bringing greater human interest into their teaching. Research work will be carried on in the laboratories by advanced students under the direction of Professors Hixson, Work and Turner.

Camp Columbia, at Lakeside, Conn., will be the headquarters for students of civil engineering, who will be under the direction of Professor James K. Finch. A lake adjoins the camp cabins, which are situated in the hills on a ten-acre tract.

Work in electrical engineering will be carried on by Professor F. W. Hehre, while the engineering drafting work will be under the supervision of Professor C. H. Schumann, Jr., who will have charge of engineering drafting. Descriptive geometry, statistical drafting and mechanical drafting will also be studied in this division.

Household engineering, dealing with the fundamental principles of mechanics, heat and electricity and their applications to the home, as well as a course on simple tests of household appliances, will be directed by Professor Carleton J. Lynde, of the department of physics.

A special series of lectures by Dean Joseph W. Barker, of the Columbia School of Engineering, and others will deal with "Science and Mathematics in Engineering." The lectures will be designed to assist teachers in their work of counseling with high-school students concerning vocational careers. Specialists will represent each of the major fields of engineering.

SCIENTIFIC NOTES AND NEWS

THE degree of doctor of science was conferred on June 4 at the commencement exercises of Columbia University on William Slocum Barstow, electrical

engineer, and on Harvey Fletcher, electrical engineer and director of acoustical research in the Bell Telephone Laboratories.

At the one hundred and sixty-ninth commencement of Rutgers University Admiral Richard Evelyn Byrd was granted the honorary degree of doctor of laws in recognition of his "valor in exploration."

At the commencement of the University of Pittsburgh on June 5, the honorary degree of doctor of science was conferred on William A. Hamor, assistant director of the Mellon Institute of Industrial Research.

STEVENS INSTITUTE OF TECHNOLOGY at the sixty-third annual commencement exercises conferred the degree of doctor of engineering on John Castlereagh Parker, president of the Brooklyn Edison Company, formerly professor of electrical engineering at the University of Michigan; on Adolf Meyer, director of the Steam Turbine Department of Brown, Boveri and Company, Switzerland; on Robert C. Stanley, president of the International Nickel Company, and on Walter Kidde, president of Walter Kidde Constructors.

DR. JOHN M. T. FINNEY, professor emeritus of surgery at the Johns Hopkins Medical School, received the honorary degree of doctor of laws at the commencement exercises of the Tulane University of Louisiana.

At the one hundred and thirteenth annual commencement of the Philadelphia College of Pharmacy and Science, held on June 5, honorary degrees were conferred on Dr. William A. Pearson, dean of the Hahnemann Medical College of Philadelphia; on Eli Lilly, president of Eli Lilly and Company, and on John M. Woodside, member of the Pennsylvania Board of Pharmacy and long a retail pharmacist in Philadelphia.

PROFESSOR WILLIAM G. OWENS, of the department of chemistry of Bucknell University, who retires after serving for fifty-five years, was the guest of honor at a formal dinner on June 7, at which President Homer P. Rainey presided.

A TESTIMONIAL dinner to Dr. J. G. Lipman, dean of the College of Agriculture of Rutgers University and director of the New Jersey Agricultural Experiment Station, was held in New Brunswick, N. J., on June 5, by the members of the department of soils and crops and the editorial staff of *Soil Science* in commemoration of his twenty years as editor-in-chief of this journal, which he founded in 1915. The first number of Volume 40, which is dedicated to Dr. Lipman, includes articles concerned with his achievements in soil science and his influence upon research in this field. Papers were contributed by Sir John Russell, Rothamsted Experimental Station, England; Dr. S. A. Waksman and Professor A. W. Blair, New Jersey Agricultural Experiment Station; Dr. R. V. Allison, Bureau of Chemistry and Soils, U. S. Department of Agriculture;

Dr. Oswald Schreiner, Division of Soil Fertility Investigations, U. S. Department of Agriculture; Dr. P. E. Brown, Iowa State College; Dr. S. Winogradsky, Pasteur Institute, France; Dr. A. A. J. De'Sigmond, Budapest, Hungary; Dr. Hendrik Lundegårdh, Experimentalfältet, Stockholm, Sweden, and Dr. W. P. Kelley, University of California.

To commemorate the eightieth birthday of Dr. Alfred Cort Haddon, fellow of Christ's College, Cambridge, and sometime university reader in ethnology, a number of friends under the guidance of Louis Clarke, curator of the Museum of Archeology and Ethnology, paid a tribute to the great services rendered by Dr. Haddon in the study of ethnology at a special gathering recently held in the museum at which a large cabinet to contain hundreds of indexed and catalogued photographs which Dr. Haddon had collected during the past forty years was presented to him. Professor Seligman, a former pupil and a colleague of Dr. Haddon in the Torres Straits Expedition, made the presentation, and in his reply Dr. Haddon announced his intention of handing over the photographs to the Board of Archeology and Ethnology of the university.

DR. HERBERT F. PRYTHERCH, director of the U. S. Fisheries Biological Station at Beaufort, N. C., was recently elected president of the National Shellfisheries Association and chairman of the State Board of Directors of the North Carolina Fishermans Cooperative Association.

OFFICERS of the British Institute of Physics have been elected as follows: *President*, Professor A. Fowler; *Vice-president*, Dr. G. W. C. Kaye; *Honorary Treasurer*, Major C. E. S. Phillips; *Honorary Secretary*, Professor J. A. Crowther; *New Members of the Board*, A. P. M. Fleming and Dr. B. L. Worsnop.

DR. CHARLES SIDNEY BURWELL, dean-elect and research professor of clinical medicine in the Harvard Medical School, formerly professor of medicine at Vanderbilt University, has been appointed to the staff of the Peter Bent Brigham Hospital, Boston, as physician, where he will continue clinical investigations of heart disease.

DR. ROY R. GRINKER, associate professor of neurology in the Graduate School of Medicine, Division of Biological Sciences of the University of Chicago, will be in charge of the new department of psychiatry, the establishment of which was recently made possible by a grant of \$168,000 from the Rockefeller Foundation. Dr. Grinker will return to the university on July 1, after two years abroad spent in research under a fellowship from the foundation.

DR. NICHOLSON J. EASTMAN, acting professor of

gynecology and obstetrics at Peiping Union Medical College, China, has been appointed professor of obstetrics at the Johns Hopkins Medical School and obstetrician-in-chief at the Johns Hopkins Hospital. Dr. Eastman will succeed Dr. J. Whitridge Williams, who died in 1931.

DR. R. E. COKER has been appointed chairman of the Division of the Natural Sciences in the senior college of the University of North Carolina. Under a new plan taking effect next session a senior college is formed with four divisions. The several divisions are concerned with programs of study, but not with administrative matters which remain in the hands of the deans.

COLONEL JAMES HIRAM GRAHAM, Louisville, consulting engineer, who graduated from the University of Kentucky in 1900, has been appointed dean of the College of Engineering.

PROFESSOR J. A. S. RITSON has been appointed to the chair of mining at the University of London, tenable at the Imperial College, Royal School of Mines, from January 1, 1936. Since 1923 he has been professor of mining at the University of Leeds.

THE court of the University of Glasgow has appointed Dr. T. Alty, research professor of physics in the University of Saskatchewan, to the Cargill chair of applied physics, vacant by the death of Professor J. G. Gray.

DR. J. A. MURRAY will retire as director of the British Imperial Cancer Research Fund at the end of the year. He will be succeeded by Dr. William E. Gye, of the National Institute for Medical Research, Hampstead.

THE trustees of the Louis D. Beaumont Trust have allotted \$1,000 to the research department of the Barnard Free Skin and Cancer Hospital of St. Louis, Mo., of which Dr. M. G. Seelig is director. A similar allotment was made last year.

GRANTS awarded by the Committee on Scientific Research of the American Medical Association include a grant to Dr. Harold Jeghers for an investigation of vitamin A deficiencies in certain diseases—Dr. Jeghers will conduct his studies at the Boston City Hospital on the Fifth Medical Service under the auspices of the Department of Medicine of Boston University; to Dr. P. L. Heitmeyer, Portland, Ore., for research on intra-uterine ovarian implants—his work on the problem was begun at the University of Pennsylvania Graduate School of Medicine and is to be continued at the University of Oregon Medical School; and to Dr. Avron Barnett, assistant in medicine at the Brooklyn Jewish Hospital, for researches concerning the mechanisms

involved in impedance angle measurements. The work is to be carried out in the laboratory of pharmacology of Professor George B. Wallace, at the New York University College of Medicine.

DR. WINFRED OVERHOLSER, commissioner of mental diseases of Massachusetts, has appointed a "Departmental Research Committee" the purpose of which is stimulation and coordination of research activities in the State Hospitals of the Commonwealth. The members of the committee are Drs. Abraham Myerson, *chairman*; Douglas A. Thom, R. G. Hoskins, Neil A. Dayton and Harry D. Solomon. The Rockefeller Foundation is supporting research programs in the Worcester State Hospital and the Boston State Hospital as well as an elaborate statistical project of the department at Boston.

CARNEGIE CORPORATION grants to the value of £400 each for the year 1935-36 have been awarded by the executive council of the Universities Bureau of the British Empire to: Professor T. J. Haarhoff, of the University of the Witwatersrand; Professor T. H. Laby, of the University of Melbourne, and Professor Meghnad Saha, of Allahabad University.

DR. WILLIAM BEEBE and four associates, comprising the annual tropical research expedition of the New York Zoological Society, arrived at Hamilton, Bermuda, on June 2.

DR. JOHN FRANKLIN DANIEL, professor of zoology in the University of California, plans a nine-months' world tour of study and investigation during which he hopes to obtain more information on amphibian embryos.

DR. ROSS A. GORTNER, professor of agricultural chemistry at the University of Minnesota and chief of the division at the State Agricultural Experiment Station, will be the George F. Baker non-resident lecturer at Cornell University in the first term of the coming academic year. The general subject of the lectures will be "Colloids with Reference to Biochemical Problems."

THE graduation address at the Buckingham School, Cambridge, Mass., was given on June 7 by Dr. Harlow Shapley, director of the Harvard College Observatory.

DR. GANO DUNN, who is president of the board of trustees of Cooper Union, New York City, gave the commencement address at the union on June 6.

THE three hundredth anniversary of the National Museum of Natural History, Paris, will be celebrated from June 24 to 29.

IN Paris, from September 15 to 23, will take place the first International Congress for the Unity of Science, the general aim of which is to consider all ques-

tions relevant to scientific enterprise as a whole. A preliminary congress concerned with laying plans for the first International Congress was held in Prague, in September, 1934. The report of the preliminary congress is available in the journal *Erkenntnis*, or in book form from Felix Meiner (Leipzig). At that time a temporary committee of organization was formed with the following membership: Carnap (Prague), Frank (Prague), Jørgensen (Copenhagen), Lukasiewicz (Warsaw), Morris (Chicago), Neurath (The Hague), Reichenbach (Istanbul), Rougier (Cairo), Schlick (Vienna). A permanent committee is in process of formation, and acceptances to membership have been received from Bridgman, Cartan, Enriquez, Frèchet, Paul Gautier, Hadamard, Pierre Janet, Kotarbinski, Lashley, C. I. Lewis, C. Nicolle. When completed the committee will be representative of all the main fields of science. Correspondence may be addressed to the secretary, Dr. Otto Neurath, Mundaneum Institute, 267 Obrechtstraat, The Hague, Holland.

A MEETING and dinner of the Institute of Management, a research group of the American Management Association, was held in New York City on May 24. The morning session was devoted to a discussion of wage incentives methods. Dr. Richard Stephen Uhrbrock, head of the research department, Industrial Relations Division, the Procter and Gamble Company, presented the paper—"A Psychologist Looks at Wage Incentives Methods." Dr. Arthur W. Kornhauser, associate professor of business psychology, School of Business, University of Chicago, in collaboration with Paul Lazarsfeld, of the Psychological Institute, University of Vienna, gave the afternoon paper, which was on "The Techniques of Market Research from the Standpoint of a Psychologist." There was a dinner meeting in the evening, when the Henry Laurence Gantt Medal "for outstanding and creative work in the field of industrial relations" was presented to Arthur H. Young. Following the presentation Sumner H. Slichter, professor of business economics at the Graduate School of Business Administration of Harvard University, gave an address on "Current Labor Trends."

THE trustees of the Rockefeller Foundation have appropriated £60,000 towards the cost of the building and equipment of the proposed Institute for the Teaching and Study of Neurology at the National Hospital for Nervous Diseases, London, and a further sum of £60,000 towards the endowment for teaching and research which will have their center in the new building.

THE Regius professor of medicine at the University of Oxford, Sir E. Farquhar Buzzard, has introduced a statute to create an Institute for Medical Research. He pointed out that this was the latest development of a five years' scheme which had its origin in the

purchase by Lord Nuffield from the Radcliffe Trustees of the observatory ground and buildings for the joint benefit of the Radcliffe Infirmary and the Oxford Medical School. The share of the university consisted of the buildings and a small part of the land. The institute will be partly devoted to therapeutic research and partly to x-ray cinematography. It will enable bachelors to do in Oxford the necessary work for the doctor's degree and may lay the foundation for a complete Medical School. It is hoped to establish the institute this year with Professor Gunn as its director and Dr. Franklin in charge of the x-ray cinematography.

THE new buildings of the British Postgraduate School at Hammersmith, associated with the University of London, were opened by the King and the Queen of England on May 13. The school is designed to provide post-graduate medical education for British doctors and for medical men from the Continent and abroad. The dean of the school, Colonel Alfred H. Procter, explained in a statement that for a long while there had been a great need in England for a center where post-graduates might revise and improve their medical knowledge. The school would also be a center where medical men from the Colonies could learn what was being done in London. It was decided in 1921 that a school should be established for qualified doctors and that the best solution to the problem was a separate hospital. A capital grant of £250,000 was proposed, but the financial crisis of 1931 made revision essential and eventually the government decided to make a grant of £100,000. The London County Council agreed to spend an equal amount. The new buildings—three blocks—were completed in January. Already post-graduate students from England, the Colonies and abroad are studying there, and four two-week refresher courses are beginning this month. A staff of professors and readers are at work.

Nature reports that the German government has issued an announcement referring to the work of the German bird migration research stations in Helgoland and at Rossitten where rings are attached every year to the feet of more than 160,000 migratory birds. The rings are inscribed with identification numbers and with the address of one or other of the stations. The stations are anxious to receive reports of the finding of these birds in any part of the world with the view of gaining further information as to bird migration and other phenomena of bird life. They will gratefully acknowledge all such reports, and are prepared to furnish in reply information not only as regards the bird in question, but also as regards their work generally. Reports will be sufficiently addressed if directed to Vogelwarte Helgoland, Germany, or Vogelwarte Rossitten, Germany.