

December 5—*Fuels*: DR. S. W. PARR, University of Illinois, Urbana.

December 19—*Vitamins and ultra-violet light*: DR. ETHEL LUCE, University of Rochester Medical School.

January 9—*Smoke*: DR. G. T. MOORE, Missouri Botanical Gardens, St. Louis.

January 23—DR. K. C. D. HICKMAN, Eastman Kodak Company.

February 6—*Band spectra and molecular structure*: DR. SAUL DUSHMAN, General Electric Company.

February 20—*The discovery of the ovum*: DR. G. W. CORNER, University of Rochester Medical School.

March 5—*Pharmacology*: DR. A. D. HIRSCHFELDER, University of Minnesota, Minneapolis.

March 19—DR. S. E. SHEPPARD, Eastman Kodak Company, Rochester.

April 2—DR. O. MAASS, McGill University, Montreal, Canada.

April 16—*Wood distillation*: MR. I. N. HULTMAN, Eastman Kodak Company, Rochester.

May 7—Some speaker on *Anti-knock fuels*.

May 21—*Electro-metric measurements*: DR. H. C. PARKER, Leeds & Northrup, Philadelphia.

Lectures at the New York Botanical Garden, during September and October, are given on Saturday afternoons at 4:00 o'clock. The program follows:

The big trees of California: DR. H. A. GLEASON.
Rarer wild flowers of New York City and vicinity: MRS. N. L. BRITTON.

Some successional aspects of the local vegetation: PROFESSOR GEORGE E. NICHOLS.

The Westchester County Park System: MR. JAY DOWNER.

Dahlias (exhibit of living collection): DR. MARSHALL A. HOWE.

In Southern California: MR. HOWARD H. CLEAVES.

Autumn coloration: DR. A. B. STOUT.

The campaign against diseases of our food plants: MR. F. C. MEIER.

The flora of the Catskill Mountains: PROFESSOR OLIVER P. MEDSGER.

SCIENTIFIC NOTES AND NEWS

THE regular fall meeting of the executive committee of the American Association for the Advancement of Science will be held on Sunday, October 16. Matters to be considered by the committee should be in the hands of the permanent secretary in Washington a few days before the meeting.

PROFESSOR E. W. BROWN, of Yale University, has accepted the invitation of the American Mathematical Society to give the fifth Josiah Willard Gibbs lecture in connection with the meetings of the society and of the American Association for the Advancement of Science at Nashville, Tennessee, in December, 1927.

DR. ROBERT A. MILLIKAN, director of the Norman

Bridge Laboratories of the California Institute of Technology, will give a course of six Lowell lectures in Boston beginning on April 13, 1928. His subject will be "Twentieth Century Discoveries in Physics."

A COURSE on "Recent Progress in Medicine and Surgery" will be given during the autumn at the New School for Social Research, New York City. The opening lecture will be by Dr. Simon Flexner, director of the Rockefeller Institute for Medical Research; other lectures will be by Drs. Walter B. Cannon, professor of physiology, Harvard Medical School, Boston; Dr. Lewellys Barker, emeritus professor of medicine, the Johns Hopkins University Medical School, Baltimore; Dr. Francis Carter Wood, Columbia University College of Physicians and Surgeons; Dr. Charles V. Chapin, Providence, president of the American Public Health Association, and Dr. Louis I. Dublin, of the Metropolitan Life Insurance Company. The lectures are intended for laymen, most of whom will be college graduates and some of them physicians and nurses.

WE learn from *Nature* that Professor Edward Westermarck has accepted an invitation to deliver the Frazer Lecture at Glasgow in 1928. It will be remembered that the lectureship is vested in four universities in Great Britain in rotation and this time the election falls to Glasgow. In view of the fact that the British Association will be meeting in Glasgow in 1928, the date of the lecture will be arranged to coincide with the date of the meeting.

DR. HOWARD T. KARSNER, professor of pathology in the school of medicine of Western Reserve University, has been appointed chairman of the division of the medical sciences of the National Research Council, Washington, D. C., for one year from September 16.

DR. PAUL EHRENFEST, professor of theoretical physics in the University of Leiden, has been elected a corresponding member of the Academy of Sciences at Göttingen.

M. LOUIS RAVAZ, director of the National School of Agriculture at Montpellier, has been elected a correspondent in the section of rural economics of the Paris Academy of Sciences, to succeed the late M. A. Balland.

DR. REINHARD BRAUNS, professor of mineralogy and petrography in the University of Bonn, has been elected a foreign member of the Norwegian Academy of Sciences at Oslo.

THE Russian Academy of Sciences at Leningrad has elected to membership Dr. Heinrich Zeiss, professor of tropical medicine at Moscow.

DR. HIDEYO NOGUCHI, of the Rockefeller Institute for Medical Research, was elected an honorary member of the "Société Dermatologique et Vénérologique d'Odessa" at its meeting of May 15, when the twenty-fifth anniversary of the founding of the society was celebrated.

At the celebration of the five hundredth anniversary of the founding of the University of Louvain, the honorary degree of doctor of medicine was conferred upon Dr. James B. Murphy, of the Rockefeller Institute for Medical Research.

DR. ARTHUR D. BUSH, Decatur professor of pharmacology, Emory University School of Medicine, Atlanta, since 1923, will retire at the beginning of the autumn term on account of ill health. His successor has not yet been appointed.

DR. HAROLD E. JONES, assistant professor of psychology at Columbia University, has been appointed director of research at the newly-created Institute of Child Welfare, of the University of California.

THE vacancy in the position of medical officer of the drug-control laboratory of the food, drug and insecticide administration, caused by the resignation of Dr. J. S. Jamieson, has been filled by the appointment of Dr. Paul McC. Lowell.

F. A. ERNST, acting chief of the Fertilizer and Nitrogen Fixation Investigations and for some time a member of the Fixed Nitrogen Research Laboratory staff, has resigned to join the engineering staff of the Atmospheric Nitrogen Corporation, at Syracuse, N. Y.

WE learn from *Nature* that Mr. Geoffrey Evans has been appointed principal of the Imperial College of Tropical Agriculture at Trinidad. Mr. Evans was in the Indian Agricultural Service from 1906 until 1926. He was for a time attached to the Queensland Government in Australia as director of cotton culture, and during this period he also worked in Fiji, Papua and New Guinea.

PROFESSOR L. BOEZ, of the hygienic institute of the University of Strasbourg, has been appointed director of the Pasteur Institute at Saigon, French Indo-China.

PROFESSOR LEON W. COLLET, of the University of Geneva, will be visiting lecturer on geology at Harvard University during the first half of the school year beginning on September 26. Professor Collet will offer a course on the "Geology of the Alps," as well as a series of lectures on "The Principles of Geology."

DR. WILLIAM F. DURAND, past-president of the American Society of Mechanical Engineers, sailed on

August 16 as the official United States delegate on the International Advisory Committee on Prime Movers of the International Electrotechnical Commission. The meetings were held at Bellagio, on Lake Como, Italy, September 4 to 24. Dr. Durand also served as acting delegate on the Rating of Rivers in the place of N. C. Grover, of the Department of the Interior, the official delegate, who was unable to attend the sessions.

DR. E. HORNE CRAIGIE, who since the beginning of the year has been working in the laboratories of the Instituto Cajal in Madrid and of the Central Institute for Brain Research in Amsterdam, is in Budapest for the tenth International Congress of Zoology. At the close of the congress Dr. Craigie will return to Toronto.

BROTHER LEÓN, professor in the Collège of La Salle, Havana, who came to New York to receive the honorary degree of doctor of science from Columbia University at the commencement exercises in June, spent parts of June and July at the New York Botanical Garden, in continuation of studies of the Cuban flora, which, in cooperation with members of the garden staff, have extended over more than fifteen years.

DR. EUGENE ALLEN SMITH, emeritus professor of mineralogy and geology in the University of Alabama and state geologist since 1873, died on September 7, aged eighty-six years.

DR. WILLIAM LIBBEY, professor of physical geography at Princeton University from 1883 to 1923, died on September 6, aged seventy-two years.

JUERGEN HERMAN PAARMANN, curator of the Davenport, Iowa, Public Museum since 1902, died recently. Mr. Paarmann was born in Davenport in 1870 and was graduated from the State University of Iowa in 1901.

DR. CHARLES C. GODFREY, president of the American Association of Variable Star Observers, conducted in cooperation with the Harvard Observatory, died at Bridgeport, Connecticut, on August 31, aged seventy-one years.

RAY P. TEELE, chairman of the special advisory committee appointed by the Secretary of the Interior to investigate economic conditions of Indian irrigation projects in the West, died while investigating the Uintah irrigation project at Myton, Utah, on September 1 at the age of fifty-nine years.

DR. VICTOR G. KIMBALL, assistant professor in the veterinary school of the University of Pennsylvania, died on September 9.

THE twelfth annual meeting of the Optical Society

of America will be held at Union College, Schenectady, N. Y., October 20, 21 and 22. Headquarters will be at the Van Curler Hotel.

THE United States Civil Service Commission states that there is a vacancy in the position of senior aeronautical engineer at the Langley Memorial Aeronautical Laboratory, Langley Field, Va., at a salary of \$5,000 a year, and that in view of the importance of the position in the field of aeronautical research, and in order to secure the appointment of a thoroughly qualified man for the work, an unusual method of competition will be followed to fill the vacancy. Instead of the usual form of civil service examination, the qualifications of candidates will be passed upon by a special board of examiners, composed of Dr. G. W. Lewis, director of aeronautical research, National Advisory Committee for Aeronautics; Dr. F. C. Brown, acting director of the Museums of the Peaceful Arts; Mr. Starr Truscott, aeronautical engineer, National Advisory Committee, and Messrs. A. S. Ernest and A. W. Volkmer, examiners of the Civil Service Commission. For the purpose of this examination the persons named will be examiners of the Civil Service Commission. Applications should be received not later than October 4.

APPLICATIONS for pharmacologist in the Hygienic Laboratory, Public Health Service, Washington, D. C., and vacancies occurring in positions requiring similar qualifications, must be on file with the Civil Service Commission at Washington, D. C., not later than October 11. The entrance salary is \$3,600 a year. The work will be to carry on pharmacological and toxicological investigations and research. Competitors will not be required to report for examination at any place, but will be rated on their education, training, experience and fitness, and publications or thesis to be filed with the application.

A MOTION picture machine which will take 48,000 exposures a second and which will be useful in scientific and experimental work has been invented and patented in Germany. There are certain very fast operations beyond the human eye and ordinary film photography, where a scientific investigation at such high speeds has created an actual need for high-speed photography. Among these operations may be mentioned the investigation of electric discharges, electrical switching apparatus, the determination of the speed of bullets, the operation of high-speed looms and sewing machines, investigations of mental working machinery and oscillations and vibrations on almost every kind of machine, etc.

Erratum.—In the review of Eddington's book on "The Internal Constitution of the Stars," by Dr. H.

H. Plaskett, printed in the issue of SCIENCE for July 22, several lines were misplaced at the bottom of the right-hand column on page 82. The passage should read:

Of the several quantitative predictions furnished by Eddington's model, none is more striking or more general than this relation that the luminosity of a star, apart from a small factor depending upon the surface temperature, is a single-valued function of its mass. The relation contains but one disposable constant (the proportionality constant of Kramers's absorption law), and this is fixed from the mass, luminosity and effective temperature of a single star (Capella). It is then found that all thirty-seven stars of known mass and luminosity, both giants and dwarfs, lie on Eddington's mass-luminosity curve with the average residual of the order of half a magnitude.

UNIVERSITY AND EDUCATIONAL NOTES

KEUKA COLLEGE, at Penn Yan, N. Y., has received a gift of \$150,000 from Ball Brothers, glass manufacturers, of Muncie, Ind. This makes a total sum of \$250,000 which they have given to the college.

A CHAMBER OF COMMERCE committee in Cambridge, Mass., has reported that Cambridge property is \$30,000,000 underassessed, chiefly because of the big holdings of its colleges. A conference is recommended with officials of Harvard University and the Massachusetts Institute of Technology to see what steps might be taken to halt the continuous acquisition of property by these institutions. It is asserted that as holdings were diverted to educational uses, they automatically came off the tax list, forcing up the tax rate and discouraging new developments.

PROFESSOR A. F. KUHLMAN, who has been on leave of absence during the second semester of the present academic year, working for the Social Science Research Council, resumes his work in the University of Missouri at the beginning of the academic year and will act as chairman of the department during the absence of Professor Ellwood.

DR. HARRY F. WILKINSON has been appointed assistant professor in the department of surgery, in charge of work in otolaryngology at the medical school of the University of Chicago. Dr. Wilkinson has been a fellow in otolaryngology at the Mayo Clinic for about three years.

DR. RICHARD H. MEADE, of Richmond, Virginia, has been appointed assistant professor of surgery in the University of Virginia.

M. ROUCIERE has been appointed professor of anatomy at the University of Paris, to succeed M. Nicolas; M. Loeper, professor of therapeutics, to succeed M.