

tional finance, Princeton University, "The International Character of Economics."

Lloyd R. Watson,¹ professor of chemistry, Alfred University, "Economic Aspects of Controlled Mating of Honeybees."

Charles R. Anderson,¹ associate professor of American literature, the Johns Hopkins University, "The Centennial Edition of Sidney Lanier."

Charles de Tolnay,¹ Institute for Advanced Study, "Theory of Drawing in Italy and France During the Renaissance and Baroque."

THE CHARLES L. MAYER AWARD OF THE NATIONAL ACADEMY OF SCIENCES

MANUSCRIPTS and published articles submitted for the 1943 Charles L. Mayer Prize are being received by the National Science Fund of the National Academy of Sciences, 515 Madison Ave., New York 22, N. Y. The closing date for the receipt of contributions is January 15, 1944.

The award will be made for an outstanding contribution to present-day knowledge of factors affecting the growth of animal cells with particular reference to human cancer, and the advisory committee assisting the National Science Fund in administering the award is prepared to consider contributions published during

1943 or in manuscript. In addition, the committee requests recommendations from scientists or persons whose present work comes within the field for which the award is offered and who are achieving outstanding results.

The donor of the Charles L. Mayer Award had in mind the vast possibilities offered for research on the action of chemical agents and physical factors in stimulating or retarding cell growth, and the committee is interested primarily in fundamental studies on the factors influencing the growth of animal cells rather than applications to any particular aspect of normal or abnormal growth. The 1942 award was made to Dr. Charles Huggins, of the University of Chicago, for his work on endocrine control of prostatic cancer.

The advisory committee in charge of recommendations for the 1943 Charles L. Mayer Award includes Dr. Alan Gregg, director for the medical sciences, Rockefeller Foundation; Dr. George H. Whipple, dean of the School of Medicine and Dentistry of the University of Rochester; Dr. Peyton Rous, the Rockefeller Institute for Medical Research; Dr. R. R. Williams, chemical director of the Bell Telephone Laboratories, and Elihu Root, Jr.

SCIENTIFIC NOTES AND NEWS

THE autumn meeting of the National Academy of Sciences will be held in the Academy Building, Washington, D. C., on Monday, November 22. Registration will be at 9 A.M. The meeting will be for members only. It will be confined to academy business and reports from members who are actively engaged in the war effort. It is expected that the session will be limited to one day, beginning at 9:30 A.M. Luncheon, limited to members, will be at 1 P.M. at the Roger Smith Hotel.

THE Board of Directors of City Trusts of Philadelphia announces the conferring of the John Scott Awards on Dr. Otto Stader, veterinary surgeon, Ardmore, Pa., for the invention of the reduction and fixation bone splint; on John C. Garand, chief engineer of ordnance, Springfield Armory, for the invention of the U. S. Rifle Cal. .30 M. 1, and, as already announced in SCIENCE, on Dr. Richard E. Shope, of the Rockefeller Institute for Medical Research at Princeton, N. J., Lieutenant Commander, U. S. Naval Reserve, for the discovery of the complex etiology of swine influenza. The awards will be presented on Thursday evening, November 18, at 8:30 o'clock in the Hall of the American Philosophical Society.

DR. FREDERICK L. HOFFMAN, of the Biochemical Foundation of the Franklin Institute, now retired and

living in San Diego, Calif., who was influential thirty years ago in founding the American Society for the Control of Cancer, was on November 2 at the seventeenth annual dinner of the New York City Cancer Committee awarded *in absentia* the "Clement Cleveland Award for 1943." The medal, which is presented annually "for outstanding service in the cause of cancer control," was accepted for Dr. Hoffman by Dr. Howard C. Taylor, attending surgeon at the Roosevelt Hospital. The presentation was made by Mrs. Robert G. Mead, daughter of the late Dr. Cleveland, in whose memory the award was established. This year's dinner of the New York Committee was given in honor of the founders of the American Society for the Control of Cancer. Dr. Clarence C. Little, managing director, reviewed the history of the organization. There was an exhibit showing the advance in cancer control that has taken place during the past thirty years.

THE Philadelphia College of Pharmacy and Science conferred at commencement on November 3 the degree of doctor of science on Dr. Theodore G. Klumpp, president of the Winthrop Chemical Company, in recognition of "distinguished services in medicinal chemistry."

DR. CURTIS SAUNDERS, master sergeant, division of

parasitology and tropical medicine of the Army Medical School, Washington, D. C., was elected on October 12 a member of the Royal Institute of Public Health and Hygiene, London.

DR. LEASON H. ADAMS, director of the Geophysical Laboratory of the Carnegie Institution of Washington, has been nominated as president-elect of the American Chemical Society.

DR. HENRY T. HEALD, president of the Illinois Institute of Technology, was elected president of the Association of Urban Universities at its twenty-ninth annual meeting in Chicago; Dr. David D. Henry, executive vice-president of Wayne University, was elected vice-president. Dr. F. W. Shockley, director of the extension and evening divisions and of the summer session of the University of Pittsburgh, will continue as secretary-treasurer.

F. MALCOLM FARMER, vice-president and chief engineer of the Electrical Testing Laboratories, has been elected president of the United Engineering Trustees, Inc., the joint agency of the four national societies of civil, mining and metallurgical, mechanical and electrical engineers.

CLYDE G. CONLEY, of the Mt. Vernon Bridge Company, Ohio, has been elected president of the American Institute of Steel Construction.

GEORGE ROBERTS, head of the department of agronomy of the University of Kentucky and agronomist at the experiment station for nearly forty years, retired on July 1 with the title professor of agronomy emeritus. He has been succeeded by Edmund J. Kinney, professor of farm crops and agronomist in charge of tobacco and cereal investigations.

It is reported in the *Journal* of the American Medical Association that Dr. Harold W. Brown has resigned as dean of the School of Public Health of the University of North Carolina, to become professor of parasitology in the newly established department of tropical medicine of the Columbia Presbyterian Medical Center. He is also the first member of the faculty for training and research in tropical diseases, which will function under the immediate direction of the DeLamar Institute of Public Health, a division of the medical school. The project was made possible by a grant of \$150,000 from the Josiah Macy Jr. Foundation, which will also defray a concentrated five-year program of research and teaching.

DR. PAUL HERGET, absent on leave from the Observatory of the University of Cincinnati to fill a war position at the U. S. Naval Observatory, Washington, has been appointed director of the observatory at Cincinnati. He succeeds the late Dr. Elliott Smith, who died on September 29. Dr. Everett I. Yowell,

professor emeritus of astronomy, will continue as acting director until Dr. Herget can be released by the Naval Observatory.

RONALD MARTIN FOSTER, until recently a research mathematician in the Bell Telephone System, has joined the faculty of the Polytechnic Institute of Brooklyn as head of the department of mathematics.

LOWELL E. WALTERS, instructor in animal industry at the Louisiana State University, has been appointed assistant professor of animal husbandry at the Massachusetts State College.

DR. ROBERT I. WISE, formerly director of the Public Health Laboratory of Houston, Texas, has become assistant professor of bacteriology in the Medical School of the University of Texas. Dr. Glenn Drager, formerly of the department of anatomy of the Medical School of the West Virginia University, has been appointed assistant professor of anatomy.

FREDERIC H. MILLER, associate professor of mathematics and acting head of the department at Cooper Union, New York, has been appointed professor of mathematics and head of the department. He succeeds Professor H. W. Reddick, who has resigned.

DR. WILLIAM A. HOOKER, senior economic zoologist of the U. S. Department of Agriculture, has retired after serving for forty years.

C. KENNETH BULLOCK, Chautauqua County, N. Y., agricultural agent since 1930, has been appointed assistant secretary to Earl C. Foster, executive secretary of the New York State Emergency Food Commission.

DR. EDWARD I. SALISBURY, known for his work in tropical medicine, has been made medical director of the United Fruit Company to succeed Dr. Roland C. Connor, executive vice-president.

DR. J. C. HOSTETTER has resigned as vice-president and director of research and development of the Hartford Empire Company, Connecticut, to become president of the Mississippi Glass Company, St. Louis.

THE War Department, Washington, D. C., announced on October 21 the appointment of Colonel Stanhope Bayne-Jones, M. C., A.U.S., as director of the United States of America Typhus Commission. According to the *Journal* of the American Medical Association, Colonel Bayne-Jones succeeds Brigadier General Leon A. Fox, U. S. Army, who asked to be relieved as director and appointed field director in order to give all his time to the field work of the commission, which has been operating abroad, particularly in the Middle East, since the first of this year. Colonel Bayne-Jones takes over the directorship in addition to his work as assistant director of the Preventive

Medicine Division, Office of the Surgeon General, where the main office of the commission has been established. Colonel Bayne-Jones was formerly dean of the Yale University School of Medicine and was professor of bacteriology when ordered to active duty early in 1942.

FOLLOWING the death of Dr. Wilmon Newell, provost for agriculture at the University of Florida, director of the Agricultural Experiment Station and Extension Service, plant commissioner, State Plant Board, the following appointments, effective on November 1, have been announced: H. Harold Hume, dean of the College of Agriculture, provost for agriculture and dean of the College of Agriculture; Associate Director Harold Mowry, director of the Agricultural Experiment Station, and Associate Director A. P. Spencer, director of the Agricultural Extension Service. Assistant State Plant Commissioner A. C. Brown has been appointed plant commissioner to succeed Dr. Newell. The plant board is not connected with the University of Florida. The appointment by the Board of Control of Dr. P. J. Westgate as associate horticulturist, for duty with the Sub-Tropical Experiment Station, Homestead, was also announced.

THE *Experiment Station Record* reports that Dr. A. L. Deering, dean of the College of Agriculture of the University of Maine and director of the extension service, has also been given supervision over the Experiment Station in a program to coordinate the three branches of agriculture in the university. Because of the decreased student enrolment, several members of the college faculty have been transferred temporarily to the station for research on a full-time or a part-time basis. Dr. Arthur Hawkins, assistant agronomist of the station, has resigned to accept an appointment with the Bureau of Plant Industry, Soils and Agricultural Engineering of the U. S. Department of Agriculture, but will remain in Maine to carry on research in cooperation with the station.

DR. D. T. MACDOUGAL, of Mt. Carmel, Calif., has resigned as a member of the Board of Managers of the New York Botanical Garden. He is succeeded by Edwin De T. Bechtel. The *Bulletin* of the garden states that Dr. MacDougal's association with the garden began in 1899 when he was appointed director of the laboratory and first assistant. In July, 1904, he was made assistant director, continuing also in charge of the laboratory until he severed his connection at the end of 1905. From 1929 until 1933, he was one of its scientific directors, and was then elected to the board of managers. Dr. MacDougal has been a member of the corporation since the beginning of 1930.

DR. BASSETT MAGUIRE, who returned to New York

in August after a summer spent exploring in the mountains of Utah and western Nevada, has been appointed non-resident professor of botany at the Utah State Agricultural College, where he taught for twelve years before accepting his appointment as curator at the New York Botanical Garden, in recognition of services rendered to the college.

DR. JOHN J. BOURKE, regional medical officer attached to the New York Regional Office of Civilian Defense, has been promoted from the rank of major in the U. S. Public Health Service to that of lieutenant colonel. He was formerly chief medical officer for the New York State War Council.

DR. OSCAR IVANISSEVICH, professor of surgery and director of the Surgical Institute at the University of Buenos Aires, exchange professor of surgery at Stanford University for the months of October and November, will give the Morris Herzstein Medical Lectures for 1943 in San Francisco on November 15, 17 and 19. He will speak on "Echinococcosis." The Herzstein Lectures were established in 1929 by the late Dr. Morris Herzstein, of San Francisco, to be given under the direction of the medical schools of Stanford University and the University of California. They are given on alternate years by scientific men of outstanding achievement and are open to the public as well as to the medical profession.

It is reported in *Nature* that the Parsons Memorial Fund, which is administered by the Royal Society, made provision for a memorial to the late Honorable Sir Charles Parsons in Westminster and for an annual Parsons Lecture to be given in turn under the auspices of eight specified institutions and societies, concerned with the subjects most closely associated with his name. In accordance with the terms governing the appointment of the lecturers, the 1943 lecture, which is the eighth of the series, was given under the auspices of the Physical Society. It was delivered at the meeting of the society at the Royal Institution, on October 15, by the Right Honorable Lord Rayleigh, whose subject was "Optical Topics, in Part Connected with Charles Parsons." Previous lecturers have dealt more especially with other aspects of his work.

BECAUSE of information received that it will not be possible for St. Louis to provide adequate hotel accommodations, the date of the meeting of the annual session of the American Medical Association, which had been scheduled to be held in St. Louis, has been changed by the Board of Trustees. It will now be held in Chicago from June 12 to 16.

THE spring convention of the Electrochemical Society will be held at Milwaukee from April 12 to 15, 1944.

THE forty-ninth summer meeting of the American Mathematical Society and the twenty-fifth colloquium were held in September at the New Jersey College for Women, Rutgers University. The Mathematical Association of America and the Institute of Mathematical Statistics met in conjunction with the society. There was an attendance of about three hundred, including two hundred and forty-two members of the society. The program consisted of three colloquium lectures on "Existence Theorems in the Calculus of Variations," by Professor E. J. McShane; two addresses, "The Complex Method of the Theory of Trigonometric Series," by Professor Antoni Zygmund, and "Finite Deformations of an Elastic Solid," by Professor F. D. Murnaghan. There were six sections for contributed papers, one of which was a joint session with the Institute of Mathematical Statistics. Eighty-eight papers were presented either in person or by title.

THE National Research Council announces that fellowships in mathematics, astronomy, physics, chemistry, geology, paleontology, physical geography, zoology, botany, agriculture, forestry, anthropology and psychology will be available for the year 1944-1945. These fellowships are awarded as a rule to persons under thirty-five years of age who are citizens of the United States or Canada, and who have met

all the requirements for the doctor's degree. Applications must be filed on or before December 31, on forms obtainable from the secretary of the Fellowship Board in the Natural Sciences, National Research Council, 2101 Constitution Avenue, Washington 25, D. C. A handbook describing the fellowships—stipends, conditions and tenure—will be furnished upon request.

SCIENCE SERVICE announces that the membership in Science Clubs of America has increased 300 per cent. since this time last year. The third annual science talent search, sponsored by Science Clubs of America and offering \$11,000 in Westinghouse science scholarships, is now under way. Entries must be completed by December 27. Over 15,000 high-school seniors competed in a similar contest last year, and it is expected that more than that number will enter this third search for talented science students worthy of financial assistance for higher education.

THE State Legislature of Alabama has made an appropriation making possible the inauguration of a state-wide program of cancer control. For the first year \$30,000 has been set aside and for the second year \$50,000 to finance the project, which will be administered by the State Board of Health. A cancer control committee has been named by the Medical Association of the State of Alabama.

DISCUSSION

A POSSIBLE RELATIONSHIP BETWEEN THE WALNUT ERINOSE MITE AND WALNUT BLIGHT

IN the late summer of 1942, successful isolation of the walnut blight organism, *Phytophthora juglandis* (Pierce) Bergey *et al.*, responsible for huge annual losses of English walnuts all over the world, was made from a walnut erinose mite, *Eriophyes tristriatus* Nalepa var. *erinea* Nalepa, found hibernating beneath the scales of a healthy, dormant bud on an English walnut tree. Transferred to the surface of a plate of beef agar, colonies of bacteria in mixed culture, including the blight organism, developed from one of a small number of mites so treated. After purification of the cultures, needle puncture inoculations were made on the main stems of young seedling walnuts forced in the greenhouse. Small but characteristic lesions of the disease developed before the trees went dormant and the tissue hardened.

In 1943, young shoots and nuts on mature trees inoculated by the needle puncture method likewise developed characteristic lesions. Similarly, broth suspensions of the bacteria atomized on unwounded nuts produced numerous lesions. Corresponding controls in all the experiments referred to remained healthy.

Smith¹ pointed out over thirty years ago that flies attracted to the black, slimy sap that often oozes from blight lesions and which teems with the bacteria may become contaminated. Since wounds or abrasions of the epidermis of susceptible tissue are not necessary for infection, he assumed that flies disseminate the disease by simply tracking the bacteria over susceptible surfaces, or on their mouth parts. It must be recognized that flies are not obligate parasites² of the walnut and their presence in a tree is casual or accidental. Thus the role they play in the dissemination of the disease must be a variable one if they actually constitute a factor at all.

The successful isolation of the blight bacteria from the walnut erinose mite marks the first instance that a strictly obligate parasite of the English walnut has been found to harbor the organism. Whether the walnut erinose mite can actually transmit the disease to the nuts is not yet proved, but it does not seem im-

¹ C. O. Smith, *Calif. Agr. Exp. Sta. Bul.* 231, 1912.

² Even the walnut husk fly, a serious parasite of walnuts in Southern California, is not an obligate parasite of the walnut. The first authentic report of its presence in the state occurred as late as 1926, consequently the flies C. O. Smith worked with were entirely different and probably not parasites on walnuts at all.