

Washburn, State entomologist (1918-43). During the year 1912-13 he served as entomologist of the Pennsylvania Chestnut Blight Commission. In 1940-41 he was chairman of a committee requested by the Bureau of Entomology and Plant Quarantine to evaluate the work on control of the gypsy moth.

Prof. Ruggles was an outstanding teacher who was ever ready to aid his students in their problems, whether scholastic or personal. Many of the leaders in agriculture throughout the state recall with deep appreciation their contacts with him during their student days.

Responsible for details of regulatory work, as he was almost from the beginning of his appointment at Minnesota, his approach was primarily that of an educator rather than as an officer of the law. Genuinely interested in the problems and frank and open in his approach, he won the cooperation of those with whom he had to deal. This was manifest in his enforcement of the State Nursery Inspection laws, in the development of the bee inspection work, and in the orchard clean-up campaign which he initiated in cooperation with the growers.

Prof. Ruggles was a member of the AAAS, the American Association of Economic Entomologists (president, 1923), and the Entomological Society of America (first vice-president, 1937) and was permanent president of the International Great Plains Entomological Conference from 1935 to 1946. He had a genuine love for growing plants and was an active member of the State Horticultural Society.

Although he published numerous papers in the *Journal of Economic Entomology* and in various agricultural and horticultural journals, his chief contributions were in the form of timely bulletins and circulars of the Minnesota Agricultural Experiment Station and in the Reports of the State Entomologist. As a colleague, Arthur Ruggles was always consulted on departmental matters, for his prime consideration was the best interest of the department rather than sectional. Through his friendly nature, his live interest in entomological problems, and his cooperative spirit he won a host of friends who mourn his departure.

WILLIAM A. RILEY

University of Minnesota

NEWS and Notes

Raymond A. Paynter, Jr., zoologist of the Peabody Museum of Natural History, Yale University, has left on a one-man scientific expedition to the Yucatan Peninsula, British Honduras, and Guatemala. Mr. Paynter's objective will be the collection of more than 1,000 bird and mammal specimens from little-known areas of Middle America during the next 6-8 months. In addition to his zoogeographic studies, Mr. Paynter plans to investigate the ancient Mayan Indian ruins and to record his findings in motion-picture film and photographs. The Yale Middle America Expedition is being financed by the Peabody Museum, the Society of the Sigma Xi, and by Mr. Paynter, who will use the collected materials of his trip for a Ph.D. dissertation on the zoogeography of the Yucatan Peninsula.

David D. Whitney, professor and chairman of the Zoology Department

at the University of Nebraska, has become professor emeritus of zoology. He will continue to live in Lincoln.

G. E. F. Lundell recently retired as chief of the Chemistry Division, National Bureau of Standards, a position he has held since 1937. Dr. Lundell will remain on the Bureau staff as consultant to the Division. **Edward Wichers**, former assistant chief, has been appointed Division chief, while **William Blum**, former head of the Electrodeposition Section, will become the new assistant chief.

Theodore L. Jahn, formerly associate professor of zoology at the State University of Iowa, has recently been appointed professor of zoology at the University of California, Los Angeles.

Perley Spaulding recently retired from the position of principal pathologist in charge of the field laboratory, Division of Forest Pathology, Bureau of Plant Industry, Soils, and Agricultural Engineering, USDA, at New Haven, Connecticut. Dr. Spaulding, who this year received a Distinguished Service Award from the USDA for his unusually productive research and outstanding contributions to the

science of forest pathology, will continue special lines of work for the Bureau as a collaborator. **J. R. Hansbrough** has succeeded Dr. Spaulding as head of the Division's laboratory at New Haven.

Albert Einstein, of the Institute for Advanced Study, Princeton, New Jersey, has been elected to serve on the Advisory Board of Roosevelt College, Chicago.

J. Roy Doty, a member of the staff of the American Dental Association since 1943, has just been made director of the Association's Bureau of Chemistry. In his new position Dr. Doty will be in charge of research in the Association's laboratories in Chicago, where various chemicals and drugs used by the dental profession are examined.

Frank D. Fackenthal, formerly provost and acting president of Columbia University, has been named educational consultant on college administrative problems during the coming year for the Carnegie Corporation of New York. According to Charles Dolard, president of the Corporation,

Dr. Fackenthal will visit campuses throughout the country and will also be available for consultation by appointment at the Corporation's New York headquarters, 522 Fifth Avenue.

Alfred Lewin Copley, of the Department of Biology, New York University, has been giving a series of lectures in Holland. These included "Rheological Problems in Biology," presented before the International Rheological Congress at Scheveningen; "Theories of Intravascular Blood Clotting," given at the University of Leiden; and "Mechanisms of Hemorrhage and Hemostasis," presented at the Genootschap ter Bevordering van Natuur-, Genees-, en Heelkunde in Amsterdam.

Elizabeth Roboz, formerly of the Sugar Research Foundation, Cornell University, has joined the Food Research Laboratories of the Stanford Research Institute.

Donald Flanders recently joined the staff of the Theoretical Nuclear Physics Division, Argonne National Laboratory, as a senior physicist. Dr. Flanders, formerly of the Theoretical Physics Division at the Los Alamos Scientific Laboratory, had been associated with New York University from 1929 through July 1948.

Roy L. Swank, formerly of the Department of Neurology, Harvard Medical School, was recently appointed assistant professor of experimental neurology in the Department of Neurology and Neurosurgery at McGill University. Dr. Swank will conduct a program of experimental and clinical research on multiple sclerosis and related problems at the Montreal Neurological Institute.

Grants and Awards

The **Albert and Mary Lasker Foundation 1948 awards** to a group of three scientists and four public health administrators were recently made public at a meeting of the New York Academy of Medicine by George Baehr, chairman of the committee of the American Public Health Association that selected the recipients. Formal presentation of the awards will be made during the meeting of the Amer-

ican Public Health Association in Boston on November 11.

Individual scientific awards, consisting of \$1,000 and a gold statue, will be made to Selman A. Waksman, of Rutgers University; Rene J. Dubos, of the Rockefeller Institute; and Vincent du Vigneaud, of Cornell University Medical College. Dr. Waksman and Dr. Dubos were jointly cited for their studies of the antibiotic properties of microorganisms in the soil. Dr. Vigneaud was cited for his contribution to the chemistry of vitamins and nutrition and for leading a research team that first produced a synthetic penicillin.

Awards for administrative achievement go to Martha M. Eliot, of the U. S. Children's Bureau, Washington, D. C., and to Rolla E. Dyer, of the National Institutes of Health. Dr. Eliot will be honored for organizing and operating medical centers for the families of servicemen during the war, while Dr. Dyer is cited for his work in allotting medical research funds. For its efficient program of medical care for veterans the Department of Medicine and Surgery of the Veterans Administration will receive the Group Award, consisting of a silver statuette, with particular honor to Paul R. Hawley, former medical director, and Paul B. Magnuson, present medical director.

The **Chemical Industry Medal for 1948**, conferred annually by the American Section of the Society of Chemical Industry for outstanding application of chemical research to industry, will be presented to James A. Rafferty, vice-president of Union Carbide and Carbon Chemicals Corporation, New York City, at a dinner meeting in the Waldorf Astoria Hotel, New York City, on November 5. Mr. Rafferty was cited particularly for his leadership in developing the billion-dollar synthetic aliphatic industry, strategic field of chemical production vital to the national economy. During World War II, Mr. Rafferty was executive officer in charge of the Union Carbide operations in connection with the Government's synthetic rubber and atomic energy projects.

Harold M. Chase, director of research and superintendent of dyeing at the Dan River Mills, Inc., of Dan-

ville, Virginia, was recently named winner of the 1948 Olney Award for outstanding achievement in the field of textile chemistry. Presentation of the medal to Mr. Chase will take place during the 27th national annual convention of the American Association of Textile Chemists and Colorists now being held in Augusta, Georgia.

The **School of Mathematics, Institute for Advanced Study**, will allocate a small number of stipends to gifted young mathematicians and mathematical physicists to enable them to study and do research work at Princeton during the academic year 1949-50. Candidates must have given evidence of ability in research comparable at least with that expected for the Ph.D. degree. Blanks for application may be obtained from the School of Mathematics, Institute for Advanced Study, Princeton, New Jersey, and are returnable by February 1, 1949.

The **National Committee on Award for Grants-in-Aid from the Sigma Xi Research Fund** has announced the following grants amounting to \$4,150:

\$200 to Roland H. Alden, University of Tennessee, for aid in studies of the histochemistry and growth of trophoblast cells and implantation of the rat embryo.

\$400 to Max E. Britton, Northwestern University, for a microclimatic study of a Michigan peat bog.

\$250 to Victor H. Dropkin, Roosevelt College, for a study of genetics of *Neoplectana glaseri*.

\$400 to Taylor Hinton, Amherst College, for a study of dietary effects on gene manifestation in *Drosophila*.

\$250 to Charles A. Leone, Rutgers University, for a study of systematic serology of the Crustacea.

\$250 to Raymond A. Paynter, Jr., Yale University, to aid in studies of the birds of southern Yucatan, Mexico.

\$100 to Robert B. Platt, University of Pennsylvania, to aid in an ecological study of the shale barrens of the mid-Appalachian Mountains.

\$250 to Reinhold Rudenberg, Harvard University, to aid in an investigation of the focal properties of cathode-ray guns and illuminators.

\$150 to Frank R. Shaw, University of Massachusetts, for a study of phylogeny of the *Mycetophilidae*.

\$250 to C. S. Smith, Case Institute of Technology, for a study of the structure of cobalt at elevated temperatures.

\$300 to Wilhelm Solheim, University of Wyoming, to aid in the collection and study of parasitic Rocky Mountain fungi, with reference to antibiotics.

\$300 to Pierre Van Rysselberghe, University of Oregon, for a study of the application of the cathode-ray oscillograph to polarography.

\$300 to Floyd G. Werner, Harvard University, to aid in the collection and study of Anthicidae in Mexico.

\$250 to Philip L. Wright, Montana State University, to aid in histochemical analyses of weasel uteri.

\$500 to Albert C. Zettlemoyer, Lehigh University, for a study of adsorption of gases on organic surfaces.

Colleges and Universities

A cooperative expedition to excavate the ruins of Nippur (Iraq), a project begun 50 years ago by an expedition sent out by the University of Pennsylvania, will get under way this fall with excavation work concentrated on two sites—the temple of Enlil and the temple library. The work is being resumed by the Oriental Institute of the University of Chicago and the University of Pennsylvania Museum. Donald E. McCown, associate professor of archeology at Chicago, who has just recently returned from an expedition to Iran, will be in charge and will be assisted by Francis Steele, University of Pennsylvania epigrapher, Joseph Caldwell, archeological architect of the Smithsonian Institution, and Mrs. McCown. The archeologists hope to recover from the library ruins literary and mythological texts which will reveal Sumerian thought. Excavation of other important temples and palaces will be undertaken in the future.

A lecture course on the Genetics of Microorganisms is being offered in the Department of Botany and Microbiology, Yale University, during the first term of the present academic

year. Course lectures are to be given by members of the staff and by a number of visiting biologists, including M. Demerec, R. Emerson, A. Frey-Wissling, A. D. Hershey, N. L. Horowitz, J. Lederberg, C. C. Lindegren, S. E. Luria, M. McCarty, W. J. Nickerson, J. Preer, K. Roberts, F. J. Ryan, J. Singleton, T. E. Sonneborn, A. Srb, E. C. Stakman, and L. J. Wickerham. The lectures, which will cover genetic problems in the fields of viruses, bacteria, protozoa, fungi, and algae, will be given on Tuesdays and Thursdays at 4:30 P.M. Anyone interested in this field may attend.

A modern seismograph, known as the Sprengnether seismometer, is being readied for use at the University of Washington within a few months, according to George E. Goodspeed, head of the Geology Department. The new apparatus, which will supplement a Japanese-designed unit which has recorded quakes since 1907, will permanently record earthquake locations and intensities on a continuous photographic film, including vertical vibrations as well as east-west and north-south vibrations. In addition to the photographic records, visible graph lines will be transmitted to an indicator in the geological offices. Eijo E. Vesanen, prominent Finnish seismologist, who recently joined the staff of the Geology Department as an assistant professor of seismology, is in charge of installing the quake-detecting apparatus.

The University unit is the first of three seismograph stations in the State of Washington which, on completion in the spring of 1949, will help make the California-to-Alaska coast section one of the world's most highly observed earthquake areas, Prof. Goodspeed reports. Reports from the three Washington stations will be coordinated with those of stations in California, British Columbia, and Hawaii to locate quake centers thousands of miles away.

Iowa State College recently held formal opening ceremonies for a new laboratory designed to furnish research and teaching facilities in food processing and food technology. According to its director, R. G. Tischer, the laboratory equipment compares

favorably with any similar laboratory in the country. The two-story, 30' x 90' building includes storage space for holding foods from 65° below zero to 120° above zero, experimental freezers, automatically controlled incubators with recording devices attached, heat-processing retorts, a separate food evaluation laboratory, an analytical laboratory, an instrument room, classrooms, offices, etc.

At Northeastern University's 50th anniversary convocation on October 2, honorary D.Sc. degrees were conferred upon Edmund W. Sinnott, president of the AAAS and director of Yale's Sheffield Scientific School, and Percy L. Julian, director of research and manager of fine chemicals for the Glidden Company. Others receiving honorary degrees included Luis de Florez, Rear Admiral (USNR), consulting engineer and inventor, and Edwin R. Gilliland, professor of chemical engineering, Massachusetts Institute of Technology (Engineering); and James Bryant Conant and Raymond Walters, presidents of Harvard University and the University of Cincinnati, respectively (Laws).

An experiment in the field of cosmic radiation, the first of its kind ever made in Sweden, has just been carried out by a group of physicists from the University of Lund under the direction of Sten von Frisen. According to the American-Swedish News Exchange, 10 balloons, carrying containers with photographic plates, were sent up 70,000 feet into the stratosphere from Torslanda Airport, near Gothenburg. At least three of the containers have been found in neighboring provinces and are being examined at the Institute of Physics in Lund.

Industrial Laboratories

Kurt J. Heinicke recently joined the staff of Ward's Natural Science Establishment, Rochester, New York, as manager of a newly-formed Scientific Instrument Division. Dr. Heinicke was formerly associated with the Bausch & Lomb Optical Company in connection with their instrument development program.

Norris D. Embree, former associate director of research at Distillation Products, Inc., Rochester, New York, was recently appointed director of research. Dr. Embree joined the Research Department at Eastman Kodak in 1934 to work on a project which resulted in the establishment of D.P.I. as a separate company in 1939. The designing of high-vacuum pumps, his initial investigations, later led to the Embree jet, which formed one of the basic steps in modern high-vacuum pump development. For the past several years, Dr. Embree's efforts have included a vigorous program of vitamin research; in addition, he was responsible for the development of D.P.I.'s New Products Department.

Meetings and Elections

A Symposium on Medicolegal Problems is being sponsored by the Institute of Medicine of Chicago, the Chicago Medical Society, and the Chicago Bar Association, beginning Tuesday, October 26, at the Chicago Bar Association, 29 South LaSalle Street, Chicago. Meetings will be held on consecutive Tuesday evenings, with the exception of Thursday, December 2, at 7:30 P.M., preceded by dinner at 6:00 P.M. Among the topics to be discussed by authorities in both the medical and legal professions are: October 26, "Mental and Chronological Age Problems in Law and Medicine"; November 2, "Sex Offenses and Sex Offenders"; November 9, "Modern Methods of Crime Detection"; November 16, "Income Tax Discrimination Against the Professions"; November 23, "The Problem of Alcoholism: Medical and Industrial Aspects"; and December 2, "How Can the Constitutional Office of Coroner Serve Modern Needs?" All lawyers, physicians, students, and others interested in medicolegal problems are cordially invited to attend.

An Illinois Forestry Congress will be held October 28-29 at the University of Illinois, under the sponsorship of the Illinois Technical Forestry Association in cooperation with the University, according to J. N. Spaeth, general chairman. It is expected that the Congress will provide the first opportunity for all groups concerned with the timberland resources to consider

ways and means of developing the forests of Illinois to serve all their interests fully.

Speakers appearing on the program, together with their topics, are: Chester C. Davis, former director of Federal farm and economic programs, "Economic Opportunities in Proper Land Use"; Charles B. Shuman, Illinois Agricultural Association, "Forest Land Management in the Farm Program"; H. P. Rusk, College of Agriculture, University of Illinois, "Land Use Problems in Illinois"; F. W. Gottschalk, American Lumber and Treating Company, "Industry and Illinois' Forest Resources"; George Brooks, AFL, "Labor's Stake in Forest Land Management"; Kenneth A. Reid, Izaak Walton League of America, Inc., "Conservation in a Democracy"; Jay H. Price, U. S. Forest Service, "Responsibilities of a State in the National Forestry Program"; and A. G. Hall, American Forestry Association, "The Place of a State Forestry Association in Promoting an Adequate State Program." Congress meetings will be held in the auditorium of the University of Illinois and will be followed by a field trip to Allerton Park. The public is invited to attend. Reservations should be placed with R. W. Lorenz, 219 Mumford Hall, Urbana, Illinois.

The fall meeting of the Indiana Academy of Science will be held October 28-30 at Indiana University, Bloomington. Papers will be read in the 11 divisions of the Academy. Konrad Birkhang, of the Division of Laboratories and Research of the New York State Department of Health, will be guest speaker before the Bacteriology Section and will talk on "The Proper Place of BCG Vaccination in the Control of Tuberculosis." Winona Welch, of DePauw University, will give the presidential address. Her subject will be "Mosses and Their Uses."

The Springfield Chapter of the AAAS is holding a meeting on November 4 which will include an afternoon session (1:30 for students, 3:15 for teachers and students) and an evening session (8:15), both to be held at the Technical High School on Springfield Street. Wm. H. Ross, of Am-

herst College, and Cyril H. Brown, of Tracerlab, will speak at the afternoon session. The evening meeting will feature a talk by Dr. Nims, of Brookhaven National Laboratory. Local members wishing to make reservations for the dinner preceding the evening session (Blake's, 6:15) may do so through Philip H. Cinis, 633 Chestnut Street, Springfield 7, Massachusetts.

The American Association of Pathologists and Bacteriologists has announced that its forthcoming annual meeting will be held in Boston, Massachusetts, April 15-16, 1949. Further information regarding the meeting may be obtained from the Association secretary, Howard T. Karsner, 2085 Adelbert Road, Cleveland, Ohio.

At the opening session of the Congresso Nazionale dell'Unione Matematica Italiana at the University of Pisa on September 23, two degrees *Honoris causa* were conferred. The recipients of these D.Sc. degrees were Elie Cartan, professor of Mathematics at the University of Paris, and Marston Morse, professor of mathematics at the Institute for Advanced Study, Princeton, New Jersey. The presentation was made by the Minister of Public Education of Italy. Prof. Morse gave one of the three opening addresses of the Congress.

The American Chemical Society's Division of Petroleum Chemistry has elected the following officers for the 1948-49 term: Wayne E. Kuhn, manager of the Technical and Research Division, The Texas Company, New York City, chairman; Arlie A. O'Kelly, associate director of research, Socony-Vacuum Oil Company, Paulsboro, New Jersey, vice-chairman; and Bernard H. Shoemaker, assistant research director, Standard Oil Company of Indiana, Whiting, Indiana, and L. U. Franklin, assistant chief chemist of the Gulf Oil Corporation, Port Arthur, Texas, new members of the Executive Committee. Chalmer H. Kirkbride, laboratory director of the Houdry Process Corporation of Pennsylvania, Marcus Hook, was re-elected secretary-treasurer.

The Genetics Society of America recently elected for following officers to serve for the 1949 term: T. M. Sonneborn, Indiana University, president; and Curt Stern, University of California, vice-president. M. R. Irwin, of the University of Wisconsin, will continue to serve as secretary-treasurer.

Deaths

William F. Hand, 74, emeritus dean of the School of Science and professor of chemistry at Mississippi State College, died at his home in State College, Mississippi, on September 25, following a long illness. At the time of his death Dr. Hand was serving as vice-president of Mississippi State.

Joseph A. Ambler, 59, organic chemist at the Southern Regional Research Laboratory, died October 6 in New Orleans, Louisiana. Dr. Ambler had served with the USDA for 31 years.

Horace Terhune Herrick, 61, a leading authority on the industrial utilization of agricultural commodities, and special assistant to the chief of the Bureau of Agricultural and Industrial Chemistry, USDA, died at his home in Washington, D. C., October 7.

Construction has begun on the Clinical Center of National Institutes of Health to be located at Bethesda, Maryland, and it is hoped that the building will be completed within 3 years. The 13-story building will house the National Institute of Mental Health and hospital facilities of the National Cancer Institute, the National Heart Institute, and the National Institute of Dental Research, as well as services for studying patients with infectious and tropical diseases. Thus, there will be combined within a single structure both hospital and laboratory facilities, including the usual features of a 500-bed general hospital together with medical and psychiatric social service, physical and occupational therapy, and rehabilitation services. Patients from all parts of the country will be referred to the Clinical center by physicians, hospitals, and other health agencies on the basis

of problems being studied at various times. The scientific laboratories will occupy two-thirds of the building. In the planning and construction of the building the advice and guidance of many of the most prominent hospital experts, architects, and scientists have been sought; consequently, the new building will be of ultramodern design, entirely air-conditioned, and will have a two-corridor plan permitting close relationship between clinical care and investigative areas. The Center will collaborate closely with other government and voluntary agencies in a concerted attack on chronic diseases.

Standard strains of the tubercle bacillus are being supplied to qualified investigators in all parts of the world through a Culture Bank maintained by the National Tuberculosis Association at the Trudeau Laboratory, Trudeau, New York. This service, provided as part of NTA's medical research program, is designed to encourage scientists to use strains of known origin, type, and virulence. Since the Bank was established in 1946, requests from 18 foreign countries and various parts of the United States have been filled.

"Our Presidents and Science" is the title of a display set up at the Library of Congress in celebration of the first 100 years of the AAAS. No President is represented by fewer than two items indicating the connection which existed between each Chief Executive and the advancing science and technology of his day. Foremost of the Presidents with individual scientific achievements was Thomas Jefferson. Among the Jefferson pieces on display are a notebook kept by him at Monticello for over 44 years and containing meteorological and other scientific observations; a paper which he read before the American Philosophical Society in 1797, dealing with an extinct giant sloth; a broadside amplifying his invention of a mould board, an improvement in the plough; and his detailed contribution to American geography, *Notes on Virginia*, published in London in 1787. Other Presidents in this group include George Washington, who was interested in scientific agriculture; John Quincy Adams, whose voluminous *Report on*

weights and measures (1821) is exhibited; William Henry Harrison, who contributed to the field of archeology through publication of his *Discourse on the Aborigines of the Valley of the Ohio* (1838); Theodore Roosevelt, practical naturalist and explorer; and Herbert Hoover, distinguished mining engineer and author of a textbook, *Principles of mining*.

This most interesting exhibit will be open to the public until the end of November.

Fossil remains of clawed creatures, probably relations of the remote ancestors of hoofed animals, were obtained this summer by Charles L. Gazin, curator of Vertebrate Paleontology at the Smithsonian Institution, from deposits in western Wyoming. Dr. Gazin also found in these Eocene deposits an excellent skull of *Hyracotherium*, the "drawn horse," which, although the size of a small dog, belongs in the general ancestral line of the horses. Near Pipestone Springs, Montana, he collected bones of small mammals of the so-called Oligocene geological period, including those of primitive rodents, carnivores, and insectivores. All of the specimens collected will be added to the paleontological collections of the U. S. National Museum.

Make Plans for—

National Committee for Mental Hygiene, 39th annual meeting, November 3-4, Hotel Pennsylvania, New York City.

American Institute of Electrical Engineers, November 3-5, Birmingham, Alabama.

Symposium on "Yeasts in Feeding," November 8-10, Hotel Pfister, Milwaukee, Wisconsin.

American Public Health Association, 76th annual meeting, November 8-12, Boston, Massachusetts.

National Academy of Sciences, autumn meeting, November 15-17, University of California, Berkeley.

American Oil Chemists' Society, fall meeting, November 15-17, Pennsylvania Hotel, New York City.