

NEWS and Notes

Merle A. Tuve, director of the Department of Terrestrial Magnetism, Carnegie Institution of Washington, has been elected an honorary fellow of the Geophysical Institute, University of Alaska. Dr. Tuve was cited for his work in the field of electromagnetic wave propagation, his studies in nuclear physics, and his more recent contributions in the field of compressional wave propagation.

Edmund Ezra Day, chancellor of Cornell University, will retire January 31. He has been president of the university from 1937 until last July, when he became chancellor. The office of chancellor was created for Dr. Day when he submitted at commencement last June his resignation as president for reasons of health. A committee of six trustees and five faculty members has been appointed to review and recommend candidates for the presidency to the board of trustees.

Louis A. Pardue, University of Kentucky physicist, became chairman of the Council of the Oak Ridge Institute of Nuclear Studies on January 1. He succeeds **J. Harris Purks, Jr.**, who resigned from Emory University and the council to become associate director of the institute's General Education Board.

Benjamin J. Birdsall, who has been working with the Office of Foreign Agricultural Relations in its technical collaboration program with the western hemisphere republics, left the Department of Agriculture December 31 to serve as tropical agriculturist for W. R. Grace and Company.

S. W. Frost, on sabbatical leave from the Department of Zoology and Entomology, Pennsylvania State College, will sail February 10 to spend three months in Ecuador. He plans to collect insects from the coastal plain, the plateau area, and the upper Amazon Valley of Ecuador.

John G. Kidd, professor of pathology, Cornell University Medical College, and chief pathologist, New York Hospital, will deliver the 14th Christian Fenger Lecture of the Chicago Institute of Medicine and the Chicago Pathological Society on January 27, at the Palmer House, Chicago. His subject will be "Experimental Necrobiosis—A Venture in Cellular Pathology."

Sidney P. Colowick, associate professor in biochemistry, University of Illinois, has been appointed associate professor of biology at the McCollum Pratt Institute of Johns Hopkins University, effective January 1.

Ralph E. Gould retired December 30 after more than 31 years' service with the National Bureau of Standards, where he has been the chief of the Time Section for the past 26 years.

A. A. Bitancourt, director of plant biological research, Instituto Biologico, São Paulo, Brazil, became director general of the institute December 7, 1949. Dr. Bitancourt succeeds **H. da Rocha Lima**, who recently retired.

U. S. scientists invited by Centre National de la Recherche Scientifique to attend the symposium "Ferromagnetism and Antiferromagnetism," to be held at Grenoble July 3-7, include **J. H. Van Vleck**, chairman of the Physics Department, Harvard University; **N. M. Bozorth**, research physicist, Bell Telephone Laboratory; **Roman Smoluchowski**, associate professor of the Metals Research Laboratory, Carnegie Institute of Technology.

Visitors to U. S.

J. A. Böök, heredity researcher at the University of Lund, Sweden, will be engaged in social-medical studies at the University of Minnesota this year.

Recent visitors at the National Bureau of Standards were **P. Grivet**, professor of physics at Ecole Normale Supérieure, Sorbonne, Paris; **L. Shahed** and **Y. E. Wakil**, army dentists to the Egyptian Army Medical Corps; **John Rogers**, resident

lecturer with the School of Mines and Metallurgy, University of Otago, Dunedin, New Zealand.

Grants and Awards

A three-year research fellowship of \$2500 a year, established at the Purdue University School of Pharmacy by **Smith, Kline and French Laboratories of Philadelphia**, has been awarded to **Charles F. Peterson**. Mr. Peterson is working toward his Ph.D. degree in pharmacy, on "A Study of the Rectal Administration of Medicinal Substances."

The fourth annual award of the **Mary Soper Pope Medal** for distinguished accomplishment in botanical science, given by the Cranbrook Institute of Science, was presented at the AAAS annual meeting to a Carnegie Institution of Washington research team. The team, which is working at the Stanford laboratory in California, is headed by **Jens Clausen**, geneticist; the other two recipients are **David D. Keck**, taxonomist, and **William M. Hiesey**, physiologist. The principal joint investigations of the three men, who have worked together over a period of two decades, are in the field of experimental taxonomy, combining the concepts and tools of genetics, cytology, ecology, and geography.

The Pope medal was given last year to **William Vogt** for his work in conservation, especially in Latin America. Previously the medal had been awarded to **C. C. Deam**, Indiana state botanist, and to **Frans Verdoorn**, publisher of *Chronica Botanica*, for his work in improving international relations in plant sciences.

The **Adolphe Wetrem's Prize** in physics and mathematics has been awarded by the Belgian Royal Academy of Sciences, Letters and Fine Arts to **René Bailly**, assistant professor in the Department of Geology, Washington University, St. Louis. This prize of \$3000 is awarded every two years for work of value in science.

T. A. Boyd, of General Motors Research Laboratories, was presented the **Horning Memorial Award** by the Society of Automotive Engineers

on January 11, at the society's annual meeting at Detroit. The award honors Mr. Boyd's outstanding contributions during his 30-year study of fuels and engines.

Fellowships

Six Daniel and Florence Guggenheim Jet Propulsion Fellowships of \$2,000 a year each will be awarded this year. Granted for a period of two years, they are open to qualified applicants for advanced study in the fields of rocket and jet propulsion engineering. Three of the postgraduate fellowships are for work at Princeton University and the other three at the California Institute of Technology at the Jet Propulsion Centers established at the two institutions in 1948 by the Guggenheim Foundation.

The 1950-51 Tau Beta Pi fellowships are available to members doing graduate work in engineering. Each \$1,200 fellowship is payable in ten monthly installments, and at least seven awards will be made. Application blanks and information can be obtained from Paul H. Robbins, Director of Fellowships, 1121 15th Street, N.W., Washington 5, D. C. Applications must be mailed by *February 28*. Awards will probably be announced by March 31.

The establishment of a foundation for encouraging microbiological investigations in France, to be known as the Waksman Foundation, has been approved by the trustees of Rutgers University Research and Endowment Foundation, which holds the patents on streptomycin and other antibiotics developed by Selman A. Waksman of the university's Department of Microbiology. The foundation was launched with an initial contribution of three million francs from Rhone-Poulenc, French chemical concern which has recently been licensed by the Rutgers Research and Endowment Foundation to engage in the manufacture of streptomycin in France. Royalties due the Rutgers Foundation from this company and any other French licensees will be paid to the French foundation. The funds will be used to support research on antibiotics

and other problems in the field of microbiology in France.

Four grants, totaling 2,140,000 francs, were proposed by the Committee of the French Foundation at its first meeting last month. Three of the grants will go to workers at the Pasteur Institute in collaboration with various hospitals in Paris, the other to a staff member of the Biochemical Laboratories of the Ministry of the Colonies. Members of the foundation's executive committee are S. M. Delepine, of the French Institute and the French Academy of Medicine; Jacques Trefouel, member of the French Institute and director of the Pasteur Institute; and R. Paul, scientific director of Rhone-Poulenc.

The Department of Physics of the University of Texas is accepting applications for graduate teaching fellowships for the year 1950-51. These fellowships are open to students with a master's degree or its equivalent who are candidates for the doctorate. They are for a period of nine months and pay \$1,620 for three-fourths time and \$1,080 for half-time teaching. Nonresident students who become appointees may apply to the Dean of the Graduate School for a nonresident tuition scholarship which would remit a large part of the nonresident tuition. Applications stating qualifications and personal data, and including letters of recommendation, should be sent to the chairman of the department. Appointments will be made April 1, 1950.

Colleges and Universities

An intensive search for antiviral substances—substances of microbial origin which may prove effective against viruses—has been inaugurated by the **Rutgers University Department of Microbiology**. The new laboratory, to be known as the Virus Research Laboratory, will be headed by Vincent Groupé, associate professor of microbiology, and staffed by a chemist, a bacteriologist, and a group of graduate students and assistants. The building, which is the first unit of the university's planned Institute of Microbiology, is located on

the grounds of the New Jersey Agricultural Experiment Station and was financed by a grant from the Rutgers Research and Endowment Foundation. The virus investigations were made possible by a grant of \$25,000 from the Kresge Foundation of Detroit.

A course in clinical neurology will be presented at the **University of Minnesota Center for Continuation Study** from January 30 to February 11. The course has been planned particularly for neurologists, psychiatrists, pediatricians, internists, and neurosurgeons. Visiting faculty members include Fred Mettler, Neurological Institute, Columbia University; Walter Klingman, Department of Neurology, University of Virginia Hospital; Harold Voris, Neurological Surgery, Mercy Hospital, Chicago; Earl Walker, Neurological Surgery, Johns Hopkins University.

Meetings and Elections

The Injection Molding of Polystyrene will be the subject of a symposium to be held by the Institute of Polymer Research at the Polytechnic Institute of Brooklyn January 28, with Turner Alfrey, Jr. as chairman.

A seminar on the status of fundamental research in the psychophysiology of vision will be held at Columbia University, January 30-31, under the sponsorship of the Office of Naval Research and directed by Henry A. Imus, head of the Psychophysiology Branch. Clarence H. Graham, professor of psychology at Columbia University and a member of the ONR Advisory Panel for Psychophysiology, will lead the discussion. Lyle Lanier, of New York University, will represent the Panel on Human Engineering and Psychophysiology of the Research and Development Board. Donald G. Marquis, executive secretary, will represent the Armed Forces-NRC Vision Committee.

The American Chemical Society will open its 117th national meeting in Houston, Texas, on March 26. The Houston session will continue until March 30; the second session

will be held in Philadelphia April 9-13; and the third in Detroit April 16-20. More than ten thousand American chemists and chemical engineers are expected to attend the three sessions. "Chemicals from Petroleum" will be the theme of one of the principal symposia at the Houston meeting. The role of vitamin B₁₂ in animal and human nutrition, new insight into the molecular structure of matter, and recent discoveries in the physical chemistry of bone are among other subjects to be discussed in several hundred papers during technical session held under the sponsorship of 18 professional divisions of the society.

A conference on the teaching of the earth sciences in secondary schools will be held at Boston University March 17-18. C. W. Wolfe, chairman of the Geology Department at Boston University, is chairman of the conference, which is being sponsored by the Earth Science Institute. Information and material may be had by writing to the Executive Secretary, The Earth Science Institute, Revere, Massachusetts.

L. M. Graves, of the University of Chicago, was elected first vice president of the **Mathematical Association of America** at its annual meeting held at Columbia University on December 30. He succeeds Saunders MacLane, also of the University of Chicago. Continuing in office are R. E. Langer, University of Wisconsin, president; N. H. McCoy, Smith College, second vice president; and H. M. Gehman, University of Buffalo, secretary-treasurer. M. R. Hestenes, of the University of California at Los Angeles, and Marie J. Weiss, of Sophie Newcomb College, were elected members of the board of governors for a two-year term.

NRC News

A report entitled *Foreign Research Opportunities for Graduate Students in Geography* has been prepared by the Committee on Opportunities for Foreign Geographic Research, Earl B. Shaw, chairman.

The first part of the report contains an explanation of the efforts to gather information on the subject,

and general suggestions on the best procedure to be followed in presenting a geographical research problem to an organization which might be interested in supporting it. It is suggested that the aspects of business and industry to which geography can contribute are primarily the selection of an industrial location, and the locating of marketing opportunities. Some of the problems to be considered in each of these fields are listed, and the responsibility of the professional geographer to industry and to his science is stressed. The second part of the report lists possible sources for support of foreign geographical research, including business organizations which may aid the research if it is related to the firm's own problems; colleges, universities, foundations, and scientific societies; and interested government organizations.

The report is available without charge from the Division of Geology and Geography, National Research Council, 2101 Constitution Avenue, Washington 25, D. C.

The **American Meteorological Society** is a new affiliate of the NRC in the Division of Mathematical and Physical Sciences. The society has nominated Carl-Gustaf Rossby, professor of meteorology, University of Chicago, and past president of the society, as its first NRC representative. Dr. Rossby is known for his theoretical work in general fluid circulation, both in the atmosphere and in the ocean.

Five reports of the **Nuclear Science Series** are available from the NRC without charge, on request from active workers in nuclear science: Nuclear Electric Quadrupole Moments and Quadrupole Couplings in Molecules, by B. T. Feld; Energy Levels of Light Nuclei, by Thomas Lauritsen; Neutrons from Alpha Emitters, by H. L. Anderson; Monoenergetic Neutrons from Charged Particle Reactions, by A. O. Hansen and R. F. Taschek; and Photoneutron Sources, by Albert Wattenberg.

A composite report is now available on the five regional conferences on **University Research and Patent Problems**, which the NRC Patent

Policy Survey held in Denver, Berkeley, Chicago, New York, and Atlanta last spring. The report contains summary digests of the proceedings of each of the conferences and a composite resumé of the research and patent problems discussed. It is organized in chapters dealing with these problems under the following topical groupings: need for a university patent policy, unorganized research, organized research, sponsored research, patent management, and principles and considerations involved in formulating research and patent policies. The paper on research, inventions, and patents, delivered at the Denver conference by George N. Robillard, assistant chief of Naval Research (for patents) is also included. The report may be obtained for \$1.00 per copy from the Patent Policy Survey, National Research Council, 2101 Constitution Avenue, Washington 25, D. C.

Deaths

Hermann Nilsson-Ehle, professor emeritus of genetics at the University of Lund, Sweden, died in Lund on December 29 at the age of 77. He was known for his research in genetics and plant breeding and had been a member of the International Commission for Genetics Congresses since 1911.

Marcos Tubangui, head of the Department of Parasitology, Institute of Hygiene, Philippines, and professor of helminthology, died October 26. Dr. Tubangui was authority on the epidemiology, life cycle, treatment, and control of parasitic worms.

Sam Rosenfeld, Jr., 41, associate professor of therapeutics at Ohio State University, died December 7 of coronary thrombosis. Dr. Rosenfeld had also served as senior clinician at the Columbus cancer clinic for the past three years.

Isaiah Bowman, president emeritus of Johns Hopkins University, died of a heart attack on December 26 at the age of 71. One of the world's foremost geographers, Dr. Bowman had in recent months served as chairman of the European Co-

operation Administration's committee on overseas territories. He was also writing a book at the time of his death.

J. Francis Smith, professor emeritus of neurology and psychiatry at the Philadelphia College of Osteopathy, died at his home in Philadelphia at the age of 53. Dr. Smith had served on the staff of the college for 17 years before his retirement in world war, serving in France with 1945. He was blinded in the first the Royal Canadian Army.

The Federation of American Scientists has recently been reorganized as a national society with chapters in ten scientific centers throughout the country. The federation is active in matters where science touches on public affairs, particularly the control of atomic energy, and sponsors meetings comparable to technical sessions of scientific societies. The reorganization makes it possible for scientists in all parts of the country to take a more active part in the work of the federation. National headquarters of the federation are located at 1749 L Street, N.W., Washington 6, D. C.

A new geography of world petroleum has been completed by a group of petroleum geologists under the sponsorship of the American Geographical Society. The volume, titled *World geography of petroleum*, will be published early this year by Princeton University Press. The work was done under the editorship of the geologist Wallace Pratt, with the assistance of Dorothy Good, of the American Geographical Society, and will contain much new material, including fifty specially prepared maps and numerous tables and diagrams.

A series of one-week teacher training courses in the medical hazards of atomic warfare is being sponsored by the U. S. Atomic Energy Commission, in cooperation with the National Security Resources Board and the General Services Administration. The courses will provide information and materials to

selected members of the medical profession, who in turn will instruct physicians, dentists, and nurses in local areas as part of state and municipal civil defense programs.

The first of the courses will be held in March at the Argonne National Laboratory, the University of Rochester, and Western Reserve University School of Medicine. Courses will be offered later in the spring at the University of California at Los Angeles, the University of Utah School of Medicine, University of Alabama School of Medicine, and Johns Hopkins School of Medicine.

The Wellcome Historical Medical Library in London was formally opened last month. This library of more than 200,000 volumes has been built up over the past fifty years, and represents a private interest of the late Sir Henry Wellcome. The collection of books printed before 1500 A.D. contains 632 volumes and the 16th century collection of 4,000 volumes is equally important. Special collections include works on travel, botany, alchemy, occultism, tobacco, plague, archaeology, anthropology, and folklore. There is also a large modern selection. Although the library is for reference only and no books can be lent there are ample accommodations for readers, including microfilm and photostatic service. Historical and bibliographical inquiries, which should be made by letter, will be answered by the library staff. Scientific societies and other such groups can arrange for special visits to the library. A general catalogue is being prepared.

Fertility and Sterility, the new journal of the American Society for the Study of Sterility, will appear for the first time this month. It will contain original articles derived from the fundamental, medical, or veterinary sciences relating to the diagnosis and treatment of human infertility. Pendleton Tompkins is the editor.

Recently Received—

Public Health Research Institute of the City of New York: Annual

Report 1948-49. City of New York, Inc. Foot of East 15th Street, New York City.

Synopsis of Researches at the Bengal Immunity Laboratory, May 1947-April 1948. Bengal Immunity Research Institute, 39, Lower Circular Road, Calcutta 16, India.

Effects of Feeding DDT-Sprayed Insects to Fresh-Water Fish. Special Scientific Report, Fisheries No. 3. Fish and Wildlife Service, U. S. Department of Interior, Washington, D. C.

Selected Bibliography of the Specialized Agencies Related to the United Nations. Columbia University Press, Morningside Heights, New York City. 25 cents.

Annual Reports of the Technical Committees, Institute of Navigation, May 1948-49. University of California, Los Angeles 24.

Sugar Derivatives: A Survey of Potential Production Costs. Harold E. Bode. Technological Report Series, No. 6. Sugar Research Foundation, Inc., New York City.

The Intensities of Isotopic Carbon Bands in the Spectra of Twenty-One R-Type Stars. Vol. 7, No. 26. Andrew McKellar. Department of Mines and Resources, Dominion Astrophysical Observatory, Victoria, B. C., Canada.

Make Plans for—

Southern Association of Science and Industry, winter meeting, January 23-24, Hotel Roosevelt, New Orleans, Louisiana.

Sixth Annual Conference on Protein Metabolism, sponsored by the Bureau of Biological Research, Rutgers University, January 27-28, on the campus.

Third annual symposium on modern methods of analytical chemistry, sponsored by the College of Chemistry and Physics, Louisiana State University, January 30-February 2, on the campus.

American Physical Society, 297th meeting, February 2-4, Columbia University, New York City.