

NEWS and Notes

W. Albert Noyes, Jr., chairman of the Department of Chemistry, University of Rochester, became editor of the *Journal of the American Chemical Society* on January 1. He succeeds **Arthur B. Lamb**, of Harvard University, who retired from the post after 31 years' service.

John W. Vanderwilt has been named president of the Colorado School of Mines to succeed **Ben H. Parker**, who has submitted his resignation to take effect April 1, when he will return to the Frontier Refining Company of which he was formerly vice president. Dr. Vanderwilt has been doing consulting geologic work in Denver and spent three months in Norway last summer as geological consultant under the Marshall Plan.

Gordon H. Scott was named dean of the Wayne University College of Medicine on January 10. He was recommended for the appointment by **David D. Henry**, university president, who has been acting dean since September 1, 1948, when **Hardy A. Kemp** resigned. Dr. Scott came to Wayne three years ago from the University of Southern California where he was head of the Department of Anatomy.

W. A. Selle, formerly professor of physiology and medical physics at the University of Texas Medical School, is now professor of biophysics at the University of California Medical School at Los Angeles.

Charles S. Piggot, Tennessee chemist who participated in the Bikini atom bomb tests, has been appointed scientific attaché at the U. S. Embassy in London. His task will be to improve cooperation among the American and British governments and scientists.

R. W. Pennack, of the Department of Biology, University of Colo-

rado, has been invited to participate in the symposium "Ecologie des Groupements Animaux et Mixtes," to be held in Paris, February 20-25.

Harry V. McNeill has joined the staff of the National Institute of Mental Health, U. S. Public Health Service. He will serve as regional mental health consultant in clinical psychology in the New York City and Boston regional offices. Dr. McNeill was formerly area clinical psychologist, New York State Veterans Administration.

Pasquale Lino Trombetta, assistant professor in the Department of Comparative Anatomy and Zoology of the University of Milan, has been appointed assistant professor of biology at Quincy College, Quincy, Illinois. Dr. Trombetta will begin teaching in February and plans to continue his investigations in embryology.

Harry S. Ladd, of the U. S. Geological Survey, has been granted a request for relief from his duties as assistant chief geologist to resume research work in the paleontology and ecology of mollusks for the Geological Division. **Esper S. Larsen 3d**, who has been with the Geological Survey since November, 1942, will succeed Dr. Ladd. Since the war Dr. Larsen has been engaged in petrologic researches.

Visitors to U. S.

L. E. Howlett, associate director, Division of Physics, and **R. H. Field**, chief, Metrology Section, Division of Physics, both of the National Research Council of Canada, recently visited the National Bureau of Standards.

C. J. Mackenzie, president of the National Research Council of Canada and of the Canadian Atomic Energy Control Board, visited the Argonne National Laboratory on January 17, and the University of California Radiation Laboratory in Berkeley on January 23. Dr. Mackenzie was accompanied by **C. A. Nelson**, USAEC Liaison Officer at the Canadian Atomic Energy Project, Chalk River, Ontario.

Grants and Awards

The **Sherman Fairchild Award** for outstanding achievement in the field of aerial photography was presented to John V. Sharp, 36-year-old Bausch and Lomb Optical Company scientist, on January 12 during the meeting of the American Society of Photogrammetry in Washington, D. C. Dr. Sharp received the award for his development of the Autofocus Rectifier, an automatic instrument that enlarges, prints, and automatically reduces aerial photographs to a common scale and level.

Richard D. Brauer, professor of mathematics, University of Michigan, has been awarded the **Cole Prize for Algebra** by the American Mathematical Society. The prize was given to Prof. Brauer for a series of papers he did on group characters of groups of finite order. The award is made every five years for the most outstanding contribution in algebra made during that period.

The **Leidy Medal**, awarded every three years in honor of Joseph Leidy, Philadelphia scientist, has been given this year to Warren Poppino Spencer, geneticist of Wooster College, Wooster, Ohio. Dr. Spencer was chosen for his studies of wild populations of the fruit fly and other contributions to genetics and zoology.

Fellowships and Prizes

The Royal Anthropological Institute will award in 1950, and every year thereafter, the **Curl Bequest Prize** for the best essay on the results or analysis of anthropological work carried out or published during the preceding ten-year period, or for the history of some useful line in anthropology during the same period. Essays, not exceeding 25,000 words, or less than 10,000 should be submitted by April 30 to the Honorable Secretary, Royal Anthropological Institute, 21 Bedford Square, London, W.C. 1, to whom inquiries should also be addressed. The winning essays are to be published in the *Journal of the Royal Anthropological Institute*. A prize of £50 will be awarded this year to the winner, or winners if two or more essays are considered of equal merit.

A fellowship in nutrition has been established at the Philadelphia General Hospital by Swift and Company for the study of protein metabolism in relation to antibody response. The fellowship is for a one-year period and is being offered in conjunction with the hospital's nutrition project and nutrition clinic, under the direction of Michael G. Wohl.

A research training program in enzyme chemistry, with particular reference to heart muscle, has been inaugurated by the National Heart Institute, U. S. Public Health Service, at the Institute for Enzyme Research, University of Wisconsin. The 12-month program, which is under the direction of David E. Green, professor of enzyme chemistry, will include full-time research in some phase of enzyme chemistry and a regular series of lectures by members of both the institute's staff and other departments of the university, and guest lecturers from other universities. The number of trainees will be limited to ten and may include senior investigators. Candidates must have a Ph.D. or M.D. degree in order to qualify. Stipends conform to those in effect for postdoctorate research fellows of the Public Health Service. Applications, obtainable from the Institute for Enzyme Research, Madison, Wisconsin, should be submitted in duplicate to Dr. Green. A trainee can start the program anytime during the period July 1950 to July 1951.

Colleges and Universities

The University of Illinois at Urbana has appointed two new members to its Zoology Department staff, which is now a separate department of the university. The new staff members are M. S. Rose, formerly of Smith College, associate professor, and H. I. Fisher, formerly of the University of Hawaii, assistant professor in charge of general zoology. F. B. Adamstone is now head of the department.

The University of Delaware has announced the organization of the

Haskell Research Foundation, a non-profit group supporting research in all fields of science. The foundation is an outgrowth of the former Harry G. Haskell Sr. Research Association, originated in 1942 for the study of animal diseases.

A new Department of Biological Sciences replaces the former Departments of Botany and Zoology at Northwestern University. Frank A. Brown, Jr. is chairman of the new department. Recent additions to the staff include George H. Mickey, associate professor of biology, formerly of Louisiana State University, and Ray L. Watterson, associate professor of biology, formerly of the University of Chicago. A new building, the Mark W. Cresap Laboratory of Biological Sciences houses the department's laboratories, offices, and classrooms.

The Department of Zoology of the University of Washington has added three new members to its staff: Kenneth L. Osterud, from the University of Minnesota, is developing a program of teaching and research in protozoology; Richard C. Snyder, from the University of Arizona, will head a program in vertebrate anatomy; and Marko Zalokar, from the California Institute of Technology, is contributing to the program in experimental embryology. Albert Tyler, associate professor of biology at California Institute of Technology, has been appointed Walker-Ames Professor in Zoology for the winter quarter.

Yale University, in cooperation with the Conservation Foundation, has established a graduate program of research and instruction in conservation of natural resources. Paul B. Sears, in the newly created post of professor of conservation, will be in charge of the program, to begin in September. Dr. Sears is now at Oberlin College, but will join the Yale faculty next summer. The course, which is for graduate students only, will require two years of study and research leading to the degree of master of science in conservation. The program will be administered by the Division of Sciences and the Graduate School. Ed-

mund W. Sinnott, director of the division, in announcing the new program said, "The time has come when the whole field of conservation is so important that the training of competent personnel is a problem for our universities."

The Science Division of Colorado State College of Education is sponsoring an exhibition in April of visual aids for use in secondary schools in the teaching of science and mathematics. Suggestions for sources of material are solicited by the chairman, Charles W. Foster, Hadden Hall, Colorado State College of Education, Greeley.

Meetings and Elections

The First International Congress on Diseases of the Chest will be held at the Carlo Forlanini Institute in Rome, September 17-20, under the auspices of the Council on International Affairs of the American College of Chest Physicians and the Carlo Forlanini Institute, and in collaboration with the National Institute of Health and the Italian Federation Against Tuberculosis. Physicians interested in attending should write Dr. Chevalier L. Jackson, Chairman of the Council on International Affairs, American College of Chest Physicians, 500 North Dearborn Street, Chicago 10, Illinois, or Professor A. Omodei Zorini, Carlo Forlanini Institute, Rome, Italy.

The International Committee of the International Congress of Genetics has accepted an invitation issued by Italian geneticists for the Ninth International Congress of Genetics to meet in Italy during the summer of 1953. The dates and place of the meeting will be announced later.

The Society of American Bacteriologists has elected the following officers for 1950: president, Barnett Cohen, Johns Hopkins Medical School; vice president, Walter J. Nungester, University of Michigan; secretary-treasurer, John E. Blair, Hospital for Joint Diseases, New York City. Honorary membership in the society has been conferred upon

Albert Jan Kluyver, Technische Hoogeschool, Delft, The Netherlands.

The Ecological Society of America has elected the following officers for 1950: president, E. Lucy Braun, professor emeritus, University of Cincinnati; vice president, R. V. Truitt, Department of Research and Education, Solomons, Maryland; secretary, William A. Castle, Mary Washington College of the University of Virginia; treasurer, William T. Penfound, University of Oklahoma.

Officers elected by the **American Society of Human Genetics** for 1950 are: president, L. H. Snyder, University of Oklahoma; vice president, Curt Stern, University of California; and secretary-treasurer, Herluf H. Strandkov, University of Chicago.

The Mycological Society of America elected the following officers at its 16th annual meeting: president, A. H. Smith, University of Michigan; vice president, Kenneth B. Raper, Northern Regional Research Laboratory; councillors, F. K. Sparrow, University of Michigan and G. W. Fisher, Washington State College.

A **symposium on genetic psychology** will be held Thursday evening, April 20, at Clark University, Worcester, Massachusetts. Heinz Werner, professor of Genetical Psychology at Clark, will be chairman of the symposium. Speakers will be Anna Freud, psychologist and daughter of the late Sigmund Freud, Robert R. Sears, professor of education and child psychology and director of the Laboratory of Human Development, Harvard University, and Lawrence K. Frank, director of the Caroline Zachry Institute of Human Development, New York. The symposium will precede a meeting of the Eastern Psychological Association, which will be held at Clark on April 21-22.

Officers elected for 1950 by the **Western Society of Naturalists** at its annual winter meeting are as follows: president, Lawrence R. Blinks, Hopkins Marine Station, Stanford University, Pacific Grove, California;

vice president, Curt Stern, Department of Zoology, University of California at Berkeley; secretary-treasurer, William M. Hiesey, Carnegie Institution of Washington, Stanford, California. Members-at-large on the Executive Committee are Carl L. Hubbs, Scripps Institution of Oceanography, University of California; and Dixy Lee Ray, University of Washington, Seattle.

NRC News

The Prevention of Deterioration Center has appointed Robert M. Burns, director of chemical research of the Bell Telephone Laboratories, as chairman of its Advisory Committee. Dr. Burns succeeds John C. Warner, who will become president of Carnegie Institute of Technology in July. The center operates in the Division of Chemistry and Chemical Technology, and provides extensive information, publication, research advisory, and research coordinating services, particularly to the Army, Navy, and Air Force.

Two parts of a book to be called *Introduction to the prevention of deterioration of materials* have recently been published by the center. The tentative outline of the completed book calls for four sections: Some Important Factors in Deterioration; Materials and Their Preservation; Assembled Units and Their Preservation; and Some Special Aspects of Preservation. The parts which have been published in booklet form deal with the preservation of electrical and electronic equipment; and climate and deterioration. Copies of these booklets can be borrowed from the council for inspection and comment.

Eight new directors of the **American Geological Institute** have been appointed by constituent societies to serve for 1950-51. They are: Henry C. Cortes, Magnolia Petroleum company, Dallas, for the Society of Exploration Geophysicists; F. M. Fryxell, dean of science at Augustana College, for the Geological Society of America; M. M. Leighton, chief of the Illinois Geological Survey, for the Society of

Economic Geologists; J. P. Marble, research geochemist of Washington, D. C., for the Mineralogical Society of America; Norman D. Newell, professor of paleontology at Columbia University, for the Paleontological Society; Frank Neumann, U. S. Coast and Geodetic Survey, for the Seismological Society; R. Dana Russell, Navy Electronics Laboratory, San Diego, for the Society of Economic Paleontologists and Mineralogists; and John A. Wilson, assistant professor of geology, University of Texas, for the Society of Vertebrate Paleontology. Each of the 11 member societies of the institute appoints two members to the board of directors, to serve alternating two-year terms. In addition the NRC appoints one director; the chairman of the council and the chairman of the Division of Geology and Geography are *ex officio* directors of the institute.

The Chemical-Biological Coordination Center of the National Research Council announces the availability of *Summary Tables of Biological Tests*, Vol. 1, No. 1 and 2. These tables contain the results of tests performed on compounds submitted to the center for preliminary screening to determine their biological effects on a series of laboratory animals and plants. The tables are arranged according to the type of test employed, followed by a description of the test technique involved. Within the type of test the chemicals are listed alphabetically by the Chemical Abstracts System of Nomenclature and include the structural formula and a brief statement of test results. Reports on antibacterial, arachnidicide, fungicide, insecticide, plant growth regulator, insect and rat repellency, rodenticide, mammalian toxicity, antimalarial, brucellosis, cancer, snail control, and rickettsia are included in these issues. Requests for these tables should be addressed to the National Research Council, Chemical-Biological Coordination Center, Washington 25, D. C.

Publication problems of primary scientific journals will be the subject of a two-day conference to be

held February 10 and 11 under the sponsorship of the NRC. The conference has been scheduled in response to the many requests from scientific investigators and from persons interested in the dissemination of research results.

The first day of the conference will be devoted to problems of publication of scientific research. Journals of primary publication are faced with serious difficulties which limit their effectiveness in their function of dissemination. Other media of original publication, such as private and government reports, have not proved to be effective substitutes.

February 11 will be devoted to proposals for the solution of problems raised and to exploration of possible aids. This conference will include representatives from government agencies, institutions, publishers, and those industries involved in primary scientific publication. Its topic will be "Cooperative Efforts in the Publication of Original Scientific Research." Any interested organization is invited to send a representative. The names of such delegates should be forwarded to the National Research Council, 2101 Constitution Avenue, Northwest, Washington, D. C., before *February 1* so that pertinent documents may be sent to them in advance.

The latest report of the **Committee on Geological Personnel of the Division of Geology and Geography** is now available without charge from the division office. The report summarizes data for 1948-1949 on the enrollment and training of undergraduate and graduate students in geology, the supply and demand situations for trained geologists, and the growth of professional geological societies.

The parts of the report dealing with the growth of training in geology and the supply of geologists are based on data collected from 75 educational institutions by A. I. Levorsen, professor of geology and dean of the School of Mineral Sciences at Stanford University, and a member of the committee. These data showed that the 1949 enrollment in geology exceeded that of

any previous year, being 40% higher than for 1947-48, and more than twice as great as for the highest prewar year; there were more than four thousand undergraduates enrolled in geology, and about 1,350 graduate students. (A survey by the U. S. Office of Education has shown that, during the year ending June 30, 1949, 1,851 bachelor's, 385 master's, and 88 doctor's degrees were granted in geology. The committee estimates that 60% of these geologists entered the petroleum industry.) It is estimated that the output of trained geologists in June, 1950, may exceed 2,000. The best estimates which can be made on the demand for geologists, however, indicate that only 1,200 men with bachelor's degrees can be used; the war-created deficit of geologists has thus been overcome, except in a few specialized fields at the doctorate level. The number of geologists affiliated with scientific and professional societies has shown a correspondingly large increase in recent years, with an over-all gain of 260% in the past decade.

The work of the Committee on Geological Personnel is being assumed by the NRC's American Geological Institute, which will undertake annual supply and demand studies beginning this year.

Deaths

Durwald Frederick Fisher, pathologist at the Bureau of Plant Industry, Soils, and Agricultural Engineering of the U. S. Department of Agriculture, died of a heart attack on September 18 at the age of 61. While in charge of the U. S. Fruit Disease Field Laboratory in Wenatchee, Washington, Mr. Fisher was successful in research on the removal of arsenic spray residue from apples and the prevention of apple storage scald. As head of research on the transportation and storage of fruits and vegetables, he conducted valuable investigations in the problems of the maintenance of quality and prevention of spoilage.

Max Berek, director of the Department of Science of the Leitz Works in Germany, died on October

15 in Friburg. Dr. Berek, who was 63 at the time of his death, contributed extensively to the development of the Leica camera lenses. He is the author of the standard text, *Fundamentals of practical optics*.

George Samuel Rice, 84, retired chief mining engineer of the U. S. Bureau of Mines, died in Takoma Park, Maryland, on January 3. Dr. Rice participated in the ventilation tests and studies which were conducted in connection with the construction of the Holland Tunnel between New York and New Jersey. At the Bureau of Mines, he did research in the prevention of coal mine explosions and the efficacy of rock-dusting in rendering coal dust non-explosive.

A team of astronomers from Harvard College Observatory will leave for South Africa next month to begin an 18-month study of the 30,000 light years of space between the earth and the center of the Milky Way. The expedition will gather information on the central star clouds of the southern constellations of Sagittarius and Scorpio and investigate the origin of stars in the interstellar dust and gases in the center of the Milky Way.

The project is under the direction of Harlow Shapley, director of the observatory. Bart J. Bok, associate director, is in charge of the expedition. His wife, Priscilla F. Bok, also an astronomer, will accompany him. Other members of the team are Ivan R. King and Uco van Wyck. Astronomers from observatories in Northern Ireland and Eire will share the observing time with the Harvard scientists, but will be working on different projects.

Headquarters for the expedition will be located at the Boyden Station of the Harvard Observatory in Bloemfontein, in the Orange Free State of South Africa, which is the southernmost of Harvard's five observing stations. This station is located at a latitude of 30°, and the center of the Milky Way passes directly over it every night.

A large Baker-Schmidt type of telescope and the world's largest objective prism will be used to photograph the 30,000 light years of space. Previous explorations of the Milky Way have been limited to distances of less than 10,000 light years.

The Mayo Foundation's exhibit "Tumors of the Lung" and "Cancer Cells in Sputum and Bronchial Secretions," on loan to the Armed Forces Institute of Pathology, is now on exhibition in the Army Medical Museum in Washington, D. C. The exhibit won a prize at the American Medical Association's June meetings in Atlantic City as an outstanding example of the use of a combination of colored wax reproductions and colored photographs of gross specimens and associated x rays to illustrate a medical topic. The exhibit was prepared under the technical supervision of Arthur H. Bulbulian, director of the Museum of Medicine and Hygiene, Mayo Foundation.

The Numerical Index to the Bibliography of Scientific and Industrial Reports, Volumes 1-10, 1946-1948, a new guide to the government's collection of wartime and postwar technical research reports, is available from the Special Libraries Association. The 530-page, planograph report is a joint publication of the Science-Technology Group of the Special Libraries Association, the Socony-Vacuum Laboratories of Paulsboro, New Jersey, and the Offices of Technical Services, U. S. Department of Commerce.

Publication reports of the OTS which have appeared in the first ten volumes of the *Bibliography* are listed by number and alongside each number the volume and page numbers of the *Bibliography* are given so that additional details, including the abstract of the report, can be obtained. Formerly this information could be secured only from the OTS catalogue. Research and development fields covered by monthly issues of the *Bibliography* include aeronautical engineering, chemicals and allied products, drugs and pharmaceuticals, metallurgy, meteorology,

minerals, nuclear physics, psychology and aptitude testing.

Orders for the *Index* should be placed with the Special Libraries Association, 31 East 10 Street, New York City 3. The price is \$10.

The National Heart Institute has established a chemical pharmacology section as part of its research program. Bernard B. Brodie, associate professor of biochemistry at New York University College of Medicine will direct the section. Sidney Udenfriend, assistant professor of biochemistry at Washington University School of Medicine, St. Louis, will head the units within the section and conduct research in the metabolic transformation in the body of drugs and other substances of biological significance to the cardiovascular system, the kidney, and the aging process. Julius Axelrod, research chemist at New York University Medical School, will be in charge of biochemical research. The scientists will work under the direction of James A. Shannon, the institute's associate director for research.

The Philadelphia section of the American Chemical Society will sponsor special noncredit evening courses in chemical engineering, thermodynamics, and instrumental electronics this spring. The course in chemical engineering thermodynamics will be presented by eight specialists in the field. There will be two-hour lectures on eleven successive Monday evenings, beginning February 13. The course in instrumental electronics is designed to meet the needs of chemists who use electronic apparatus in the laboratory, and will consist of ten lectures on successive Tuesday evenings beginning February 14. Lecturers will be E. N. Shawhan, Physical Laboratory, Sun Oil Company, and E. J. Serfass, of Lehigh University.

The lectures will be held at the Philadelphia College of Pharmacy and Science in Philadelphia. Further information may be had from E. J. Rosenbaum, Sun Oil Company, Norwood, Pennsylvania, who is chairman of the Chemical Education Committee of the Philadelphia Section. Attendance is not limited to members of the society.

Brookhaven National Laboratory has opened two new research laboratories in the Medical Department, one for the Division of Bacteriology and Virology and the other for the Division of Pathology. William M. Hale is head of the Division of Bacteriology and Virology and is bacteriologist-in-chief of the laboratory hospital. He was formerly professor of bacteriology and head of the department at the University of Iowa College of Medicine. S. C. Madden is head of the Division of Pathology and pathologist-in-chief of the Brookhaven Hospital. He was formerly professor of pathology and chairman of the department, Emory University School of Medicine. Other appointments in these two divisions are Ruth M. Drew, assistant bacteriologist; John H. Prodell, Jr., junior bacteriologist; and James A. Francher, Jr., junior pathologist.

A chemical pharmacology section has been established as part of the National Heart Institute of the National Institutes of Health in Bethesda, Maryland. Bernard B. Brodie, associate professor of biochemistry at the New York University College of Medicine, has been appointed to direct the section. Sidney Udenfriend, assistant professor of biochemistry at the Washington University School of Medicine, will head the units within the section, and Julius Axelrod, research chemist at the New York University Medical School, will conduct biochemical research.

The Maury, a 62-foot boat built by the Chesapeake Bay Institute of The Johns Hopkins University, was launched in Baltimore on January 20. The boat, specially designed and outfitted with two laboratories, will be used to study the waters and marine life of the Chesapeake Bay from the mouth of the Susquehanna River to the lower Capes of Virginia. The project, begun over a year ago, is the first large scale scientific study of this major estuary and is supported by the states of Maryland and Virginia and the U. S. Navy. This research vessel was named for Matthew Fontaine Maury, early Virginia oceanographer.