

NEWS *and Notes*

Large-scale extraction of fossils from limestone rock by an etching process now in progress at the Smithsonian Institution is expected to yield over 1,000,000 new specimens for invertebrate collections. The rock bearing the fossils is immersed in muriatic acid in large, acid-resistant vats, the limestone being thus dissolved to yield the silicified fossils intact. Over the last 8 years more than 12 tons of limestone have been brought to Washington, D. C., from the rich Permian deposits of West Texas. It is estimated that it will require 3 years to secure the fossils from the 8 tons of rock remaining to be processed, but at the end of this time the Smithsonian paleontologists expect to find 700-1,000 species, many of which will be new.

According to G. A. Cooper, who is directing the classification of brachiopods, an estimated 50 per cent of all the fossil brachiopods recovered will be new specimens. This class, which is distinguished by its inequivalve and bilaterally symmetrical character, appeared first during the Devonian period, reaching its highest differentiation and greatest distribution during the Permian. At the present time there are only about 200 known species and 60 known genera, distributed widely over marine areas, but abundantly in only a few.

About People

Maximilian Philip, chairman, Department of Mathematics, City College of New York, retired September 1 after 45 years in that Department. Prof. Philip is succeeded by **Warren G. Hubert**, who has served on the City College staff since 1912.

Jesse W. Huckert, formerly associate editor of *Product Engineering*, has

been appointed to the staff of the Department of Mechanical Engineering, Ohio State University, and will assume his duties there October 1.

E. L. Porter, professor of physiology, University of Texas Medical Branch, Galveston, is spending several months with **H. S. Liddell**, professor of psychology, Cornell University, and director, Cornell Behavior Farm, where both will continue their joint studies on chronic experimental neuroses in animals.

D. P. Costello, professor of zoology, University of North Carolina, has been appointed chairman, Department of Zoology. **R. E. Coker**, former chairman, has resigned to continue as Kenan professor of zoology for teaching and research.

Carleton Shugg, general manager of Todd Shipyards Corporation in charge of New York Harbor work, has been appointed manager, Hanford Directed Operations, U. S. Atomic Energy Commission, with offices at Richland, Washington.

Among those retiring from the staff of Ohio State University this summer with the rank of professor emeritus were: **John F. Cunningham**, dean, College of Agriculture; **Clyde T. Morris**, chairman, Department of Civil Engineering; **Leonard W. Goss**, chairman, Department of Veterinary Pathology; and **Carl W. Gay**, professor, Department of Animal Husbandry.

Vernon E. Krah, formerly of the Department of Anatomy, Wayne University College of Medicine, has been appointed associate professor, Department of Gross Anatomy, University of Maryland School of Medicine, Baltimore.

R. Blackwell Smith, Jr., formerly of the Pharmacological Department, Food and Drug Administration, Washington, D. C., on July 1 assumed the deanship of the School of Pharmacy, Medical College of Virginia, Richmond.

David W. Bishop, formerly assistant professor of zoology, University of Colorado, and visiting lecturer, University of Illinois, during the current summer session, has been appointed to the staff of the Department of Zoology, University of Illinois.

Robert H. Cotton, director, Plymouth Division, National Research Corporation, has resigned to become supervisory chemist at the Citrus Experiment Station, University of Florida, Lake Alfred.

Curt Stern has been appointed professor of zoology at the University of California, Berkeley, and **William E. Berg** and **Oliver P. Pearson** have been made instructors in the Department.

Chester A. Darling, retired professor of biology, has been appointed acting president of Allegheny College, Meadville, Pennsylvania, and will serve until a permanent head is selected to succeed John R. Schultz, 14th president of the College, who died August 11.

Solon W. Stone, teaching fellow at Harvard University, has been appointed instructor in geology at Trinity College, Hartford, Connecticut.

Harold D. Webb, one of the scientists who established radar contact with the moon in January 1946, has been appointed assistant professor of electrical engineering in the University of Illinois College of Engineering. Since 1942 Dr. Webb has been employed at the Army Signal Corps, Belmar, New Jersey.

Walter L. Stutz, chief of the Engineering Instruments and Mechanical Appliances Section since 1928, has retired from the National Bureau of Standards after 35 years service. As chief of the Section, Dr. Stutz has been principally concerned with the direction of testing activities for other government agencies, including devices relating to flood control, power development, irrigation, and soil conservation.

Arthur Dorne and **Joseph Margolin**, formerly of the Antenna Design Section of the Airborne Instruments Laboratory, Mineola, New York, have established an antenna consulting firm—Dorne and Margolin, Antenna Consultants—effective on September 1, with offices temporarily located at 126 North Ocean Avenue, Freeport, Long Island, New York. While at the Airborne Instruments Laboratory, the two men were largely concerned with the faired-in, dragless antenna designing groups.

T. G. Yunker, head, Botany Department, DePauw University, and during 1947 a visiting research professor at the University of Illinois, returned to DePauw late in August, having brought his studies of the Piperaceae to a close.

Grant W. Smith has resigned as research chemist and supervisor, Department of Polymerization Research, B. F. Goodrich Company, Akron, Ohio, to be-

come professor and head, Department of Chemistry, University of North Dakota, Grand Forks.

John P. Buwalda, professor of geology, retired as chairman of the Division of Geology, California Institute of Technology, on July 1, in order to complete a number of research projects in structural geology upon which he has been working for some time. He will continue as professor in the Division. **Chester Stock**, professor of paleontology, succeeded Dr. Buwalda as head of the Division.

Visitors to U. S.

H. F. Frommurze, principal geologist of the Geological Survey of the Union of South Africa, is in the United States to study methods used by the U. S. Geological Survey in the exploration of ground water.

Yngve Andersson, research agricultural engineer at the Swedish Institute of Agricultural Engineering, Uppsala, recently visited Iowa State College, Ames, on a five-month tour of the United States. Dr. Andersson will investigate methods used in experiment stations, extension service methods, and use of machinery on farms.

Francis V. Groër, former professor of pediatrics and head, Pediatric Department, University of Lvov, now in Cracow (Poland), has been visiting the United States as Polish delegate to the Nutritional Committee of the Children's Save Fund of the UNO and to the International Congress of Pediatrics, held recently in New York City. Dr. Groër was Theodore B. Sachs visiting professor at the University of Illinois, Chicago, and Hanna lecturer at Western Reserve University, Cleveland, in 1931.

Fellowships

The Institute of International Education has been requested by the Argentine National Cultural Commission to assist in selecting two U. S. graduate students who will receive fellowships from the Commission for 10 months study in Argentina. Laurence Duggan, director of the Institute, has announced that these fellowships, running from March 1 to December 31, 1948, will provide round-trip travel plus about \$1,250. Applicants must be research workers of recognized standing in the arts, humanities, natural

sciences, or social sciences; their fellowship work must be of positive benefit to the cultural development of the U. S. and Argentina; they must have a working knowledge of Spanish; and they must be between 25 and 45. Details and forms may be obtained from the Institute at 2 West 45th Street, New York 27. The closing date is October 31.

The **Julius Rosenwald Fund** is offering fellowships to average about \$2,000 each to Negroes in any part of the United States, and to white Southerners who wish to work on some problem distinctive to the South and who expect to make their careers in the South. The fellowships are open to men and women between the ages of 24 and 35 who have completed their general college or professional course before making application. The term of the fellowship will be for one year, and grants will not be awarded for a term of less than six months. Applicants are not restricted to any special subject or activity. This is the last year that Rosenwald Fellowships will be available, since the Fund is closing its work next June. The closing date for applications is January 1, 1948. Application blanks may be secured from Mrs. Hilde Reitzes, Committee on Fellowships, Julius Rosenwald Fund, 4901 Ellis Avenue, Chicago 15, Illinois.

Grants and Awards

The **Gold Medal of the American Society for Metals** will be awarded in October to **C. H. Mathewson**, professor of metallurgy, Yale University. Dr. Mathewson, who is known for his work on constitution of alloys, crystallography, and recrystallization of metals, receives the medal "for outstanding metallurgical knowledge and great versatility in the application of science to the metal industry, as well as exceptional ability in the diagnosis and solution of diversified metallurgical problems."

The **Inter-American Institute of Agricultural Sciences** at Turrialba, Costa Rica, has recently received several grants. The Standard Oil Development Company has transferred the sum of \$9,500 as the first of a series of annual payments to meet the cost of fellowships to provide for researches and investigations on the more economical and more efficient production of tropical crops of major importance, with particular refer-

ence to the application of chemical petroleum by-products for the destruction of weeds and also for the control of growth of certain plants of economic value. Standard Oil will also meet the expense of a visiting agricultural scientist, **Ora Smith**, Cornell University, who will spend three months a year at the Institute, outlining and directing the work of the Fellows. The American Coca Research Committee, Washington, D. C., has transferred \$50,000 to the Institute as a contribution to the cost of conducting an intensive research that will reduce the existing high percentage of crop failures and develop new techniques in the planting and cultivation of cacao. The American International Association for Economic and Social Development has granted the Institute \$158,000 to permit an extension of research and educational facilities there, particularly in the Animal Industry Department. The grant will also permit Institute scientists to train students and farmers selected to become teachers and demonstrators on the staff of the Association.

The Inter-American Institute of Agricultural Sciences, whose executive offices are in the Pan American Union Building, Washington, D. C., operates on the basis of a Convention by which the governments of the American republics have agreed to recognize the permanent status of the Institute as an inter-American entity. Its purpose is to encourage and advance the development of agricultural sciences in the American republics through research, teaching, and extension activities in the theory and practice of agriculture and related fields. The Institute is divided into four major departments, Plant Industry, Animal Industry, Agricultural Engineering, and Agricultural Economics and Rural Welfare, and is at present engaged in research work on important tropical industrial and food plants as well as animal industry.

The Institute is governed by a Board of Directors, made up of one representative from each American Republic, whose chairman is Antonio Rocha, of Colombia. Members of the Administrative Committee include: H. Harold Hume, provost, College of Agriculture, University of Florida; Robert Earle Buchanan, director, Agricultural Experiment Station, Iowa State College of Agriculture and Mechanic Arts; and Luis Cruz, San José, Costa Rica. Director of the Institute is Ralph H. Allee, Costa Rica, and secretary is José L. Colom, Washington, D. C.

Research looking toward the decrease in deaths from gangrene diseases will be continued by the Department of Bacteriology, Indiana University, as the result of an annual grant of \$13,860 from the National Institute of Health. The research, initiated last year, is being conducted by L. S. McCung, head of the Department, in cooperation with Harry G. Day, chemist.

Colleges and Universities

The Department of Anthropology, University of Colorado, has appointed Robert H. Lister, Harvard University, to its staff. Robert F. Burgh, an archaeologist, has been appointed assistant to the director.

The Biology Department, University of Notre Dame, has recently made several staff changes and appointments. Donald J. Plunkett, associate professor of biology, has been named assistant head of the Department; John A. Jump has been promoted to associate professor of botany; Noe Higinbotham, assistant professor of botany, has been granted leave of absence to participate in radiobiology research at the Argonne National Laboratory, Chicago; Albert L. Delisle, formerly director, Botanical Division, Universidad Nacional Facultad de Agronomía, Medellin, Colombia, has been appointed associate professor of botany and curator of the University's Herbarium; Louis E. DeLanney, San Jose Teachers College, has been named assistant professor of embryology; and Edward O. Dodson, formerly of Dominican College of San Rafael, will become instructor of vertebrate zoology.

The Department of Zoology and Entomology, University of Tennessee, has added three new assistant professors to its staff during the past academic year: John M. Carpenter, of the University of Texas; Joseph C. Howell, Cornell University; and James T. Tanner, Cornell University.

The Department of Physics, Illinois Institute of Technology, has announced the promotion of W. E. Bennett from associate professor to professor, R. G. Nuckolls from assistant to associate professor, and A. G. Meister from instructor to assistant professor, and the appointment of F. F. Cleveland and F. L. Yost as professor and associate professor, respectively.

The University of Miami, Florida, has announced the following additions and promotions involving members of the Department of Zoology: Jay F. W. Pearson, to vice-president of the University; E. Morton Miller, to chairman of the Department; Julian C. Corrington and Henry F. Strohecker, to professors. New associate professors are Lauren C. Gilman and Luis René Rivas, and Vernon Gregory has been named instructor. F. G. W. Smith is director of the Marine Laboratory.

Boston College has made the following appointments in its Department of Chemistry: Samuel Glasstone, wartime consultant in electrochemistry, Zenith Radio Corporation, and formerly professor of chemistry, University of Oklahoma, professor; Andre de Béthune, Massachusetts Institute of Technology, and Timothy McCarthy, Massachusetts State College, Devens, assistant professors; and Albert F. McGuinn, S. J., reappointed head of the Department upon the resignation of John K. Rouleau, who has held this position for the past year.

At Kent State University the Physical Science Department has been divided into the Departments of Chemistry and Physics. Will Thompson, formerly head of the combined departments, is now head of the Department of Chemistry, and G. K. Schoepfle, of the Department of Physics.

The University of Cincinnati Research Foundation, under a \$67,000 contract with the U. S. Army Air Forces, has begun a study of atmospheric conditions to discover the nature and properties of haze. Boris Podolsky, associate professor of mathematical physics, will direct the work, assisted by Roy J. Kennedy, experimental physicist, U. S. Bureau of Standards.

The Ohio State University Research Foundation is at present engaged in a two-year research project under contract with the Army Signal Corps to investigate the effects of arctic temperatures on electric batteries. Data collected from experiments, directed toward finding the most practicable solvent for use in batteries at temperatures reaching -100° F., have shown water solutions of alcohol, hydrochloric acid, fluoroboric acid, and perchloric acid to be most satisfactory. Studies on electrolytes were then made

to discover the best conducting medium for reducing the high internal resistance of the battery under extremely low temperatures. The investigators are now attempting to determine the most suitable electrochemical couple, or proper combination of chemicals necessary to produce electricity.

A planned program of dental research which will include studies on the bacteriological and biochemical aspects of dental caries, with special emphasis on the possible importance of proteolytic bacteria in the causation of caries, is to be undertaken at the University of Rochester School of Medicine and Dentistry under a contract with the Army Medical Research and Development Board. The investigation, to be conducted in the Departments of Bacteriology and Dental Research under the direction of George P. Berry and J. E. Gilda, will be carried on in close cooperation with Basil G. Bibby, director of the Eastman Dental Dispensary. One or more selected Dental Corps officers will be assigned to participate in this and subsequent studies and to do graduate work in the biological sciences. Capt. George W. Burnett, DC, is the first officer to be so assigned.

Industrial Laboratories

Eastman Kodak Company has recently named Cyril J. Staud new director of the Kodak Research Laboratory and John A. Leermakers assistant director and head of the photographic theory department. C. E. K. Mees, director of the laboratories since 1912, will continue to serve as vice-president in charge of research. Dr. Staud, an organic chemist, has been serving as acting director since 1943 in the absence of Dr. Mees, and Dr. Leermakers was formerly technical assistant to the director. Other appointments include: Samuel W. Davidson, business manager; Walter Clark, head of the black-and-white photography department; W. O. Kenyon, head of the high polymer department; and H. C. Yutzky, head of the emulsion research department.

M. K. Ryan, Jr., manager of the technical service section, Acetate Division, Du Pont Company, has been made manager of the fabric development section of the Division, succeeding Carl I. Taber, who was recently transferred to the Nylon Division. Mr. Ryan's position will be assumed by G. S. Hooper,

technical superintendent of the acetate yarn plant at Waynesboro, Virginia.

Clifford S. Leonard, formerly assistant professor of pharmacology, College of Medicine, University of Vermont, has been appointed chief, Biological Division, Lakeside Laboratories, Inc., Milwaukee, Wisconsin.

W. Keith McAfee has been elected chairman of the Board of Universal Sanitary Manufacturing Company, New Castle, Pennsylvania. He will also continue to give his personal attention to engineering, research, and development.

Almon G. Hovey, formerly in charge of the New Chemicals Development Section, is now head of the Technical Sales Service, Chemical Division, General Mills, Inc., Minneapolis.

Albert B. Scott, director of research and development, Norwich Pharmacal Company, and director, Eaton Laboratories, has recently resigned. Dr. Scott, who is credited with the discovery and development of Furacin, has been with the Norwich Company since 1939.

Warren H. Goss, assistant to the director, and head, Market and Product Development, Northern Regional Research Laboratory, U. S. Department of Agriculture, Peoria, Illinois, has been appointed associate director, Research and Products Development Department, Pillsbury Mills, Inc., Minneapolis.

W. H. Stark, director of research, Joseph E. Seagram & Sons, Inc., Louisville, Kentucky, has been appointed general manager, Vickers-Vulcan Process Engineering Company, Ltd., Montreal, Canada. Dr. Stark is succeeded as director of research by **Paul J. Kolachov**, previously technical counselor.

Gale Boxill, who was recently graduated from Washington-Lee University, has joined the Pharmacology Department, Wm. S. Merrell Company, Cincinnati, Ohio.

Donald A. Quarles, director of apparatus development, Bell Telephone Laboratories, has recently been elected a vice-president. He has been associated with the Bell System since 1919.

G. F. D'Alelio, manager, High Polymer Research Laboratory, Industrial Rayon Corporation of Cleveland, has been appointed assistant director of research, Koppers Company, Inc., Pittsburgh.

H. B. H. Cooper, divisional engineer associated with the Calco Chemical Division, American Cyanamid Company, Bound Brook, New Jersey, has been appointed assistant manager of the Development Department.

Meetings

A symposium on refractory oxides has been arranged by the Refractories Division, Harbison-Walker Refractories Company, for October 10-11 at the Bedford Springs Hotel, Bedford, Pennsylvania. The program is open to all those interested in this field. The technical session, to be held on the afternoon of October 10, will include "Introduction to the Study of the Refractory Oxides," Raymond E. Birch, Harbison-Walker; "Simple Oxide Porcelains for Jet Planes and Projectiles," R. F. Geller, National Bureau of Standards; "Properties and Uses of Mullite and Pure Alumina Refractories," G. B. Remmey, Richard C. Remmey Sons Company; "Zircon and Zirconia Refractories," W. J. Baldwin, Titanium Alloy Manufacturing Company; and "Carbon as a Refractory Material," F. B. Thatcher, Great Lakes Carbon Corporation. Further information may be obtained from Collin Hyde, Harbison-Walker Refractories Company, Hays Laboratory, Pittsburgh 7, Pennsylvania.

The Highway Research Board will hold its 27th annual meeting December 2-5 at the building of the National Academy of Sciences and National Research Council, 2101 Constitution Avenue, Washington, D. C. During the week of the meeting the 6 Departments of the Board—Economics, Finance, and Administration; Design; Materials and Construction; Maintenance; Traffic and Operations; and Soils—will present and discuss important phases of highway technical development. Many of their 65 project committees will also meet.

The 6th Saranac Symposium will be held at The Saranac Laboratory, Saranac Lake, New York, September 29-October 3, inclusive. The primary topic for discussion concerns beryllium, which is assuming great importance in several lines of manufacture, with Monday devoted to its industrial phases and Tuesday, Wednesday, and Thursday morning to its medical, toxicological, and experimental aspects. Thursday afternoon is reserved for the clinical, chemical,

and engineering discussions of Shaver's disease, and the agenda for the final sessions on Friday comprise the current viewpoints on workmen's compensation for pulmonary and other occupational disease. Participants will include representatives of industrial, labor, and insurance groups, universities and research foundations, national and state health agencies and labor departments, as well as state compensation boards.

The New York Section, American Association of Cereal Chemists, opens its 1947-48 season on October 7 with a combined meeting with the New York group of the American Society of Brewing Chemists at the Building Trades Employers Association club rooms, 2 Park Avenue. Reservations for the dinner at 6:30 P. M. must be made with Lawrence Atkin, Wallerstein Laboratories, 180 Madison Avenue, New York 16. Aage Lund, chief chemist of the Tuborg breweries, Copenhagen, and co-author of the 1939 edition of Jorgensen's *Microorganisms and fermentation*, will speak on "Biological Control and Microorganisms in Breweries." Nonmembers interested in the fermentation industries are cordially invited to make reservations for the dinner or to attend the lecture, which will begin about 8 P. M.

The third annual meeting of the National Conference on Industrial Hydraulics will be held October 16-17, at the Hotel Continental, Chicago. The Conference is sponsored by Armour Research Foundation and the Graduate School, Illinois Institute of Technology, in cooperation with the Western Society of Engineers and the Chicago sections of the Society of Automotive Engineers, American Society of Civil Engineers, and the American Society of Mechanical Engineers. The following program has been planned: October 16, "Fundamentals of Hydraulic Governor Operation," G. Forrest Drake, Woodward Governor Company, Rockford, Illinois; "Hydraulic Circuits of Industrial Process Controls," H. Ziebolz, Askania Regulator Company, Chicago; "Fundamental Aspects of Cavitation," Hunter Rouse, Iowa Institute of Hydraulic Research, State University of Iowa; "Cavitation, the Limiting Factor in Marine Propulsion," Karl E. Schoenherr, College of Engineering, University of Notre Dame; "Cavitation in Centrifugal Pumps—Some of the Less Well-Known Factors," R. M. Watson, Worthington Pump and Machinery Corporation, Har-

ri-son, New Jersey; October 17, "Hydrokinetic Transmissions," W. F. Shurts, Twin Disc Clutch Company, Rockford, Illinois; "Torque Converters: Making Inefficiency Pay Dividends," Robert Lapsley, Clark Equipment Company, Buchanan, Michigan; "Some Recent Developments in Hydraulic Transmissions," R. H. Hensleigh, Consulting Engineer, Detroit, Michigan; "Variable Speed Hydraulic Power Transmission," James Robinson, Vickers, Inc., Detroit, Michigan; "Hydraulic Fluids and Their Applications," James I. Clower, University of Delaware; "Development of Hydraulic Seals," W. W. Hagerty, University of Michigan; and "Postwar Aspects and Problems of Engineering Research," Boris A. Bakhmeteff, Columbia University. Further information may be obtained from Le Van Griffis, Armour Research Foundation, Technology Center, Chicago 16, Illinois.

The Physical Society and the Institute of Physics of England are jointly arranging a series of meetings and other functions to take place September 25-26, 1947 in London, to mark the 50th anniversary of the discovery of the electron by Sir J. J. Thomson. A special exhibition to demonstrate the tremendous influence such an advance in pure physics may have on the life of the community will be held at the Science Museum, South Kensington, remaining open to the public for several weeks.

The National Committee for Mental Hygiene will meet at the Hotel Pennsylvania, New York City, November 12-13. The annual program will be devoted to mental hygiene issues in "Preparing for World Citizenship," as suggested by the preamble to the UNESCO constitution. The same theme has been chosen for the International Congress on Mental Hygiene to be held in London in August 1948. An examination of the International Bill of Rights in relation to mental hygiene will be followed by a discussion of the mental health potentialities of the World Federation for Mental Health, a voluntary agency, and the World Health Organization, a public agency of the UN for international cooperation. The annual luncheon meeting on November 13 will feature the presentation of the Lasker Award for the year's most significant contribution to popular adult education, especially in parent-child relationships,

and an address on the responsibilities and opportunities of citizens and mental hygiene organizations in the states in terms of immediate issues to be met.

Elections

At the annual meeting of the Mt. Desert Island Biological Laboratory, Salsbury Cove, Maine, the following officers of the Corporation were elected for 1947-48: Dwight E. Minnich, University of Minnesota, president; Wm. H. Cole, Rutgers University, vice-president; Roy P. Forster, Dartmouth College, secretary; John Whitcomb, Bar Harbor, treasurer; and Mrs. H. V. Neal, Salsbury Cove, clerk. Following the resignation of Roy Forster, who served 7 years as director, J. Wendell Burger, Trinity College, Hartford, Connecticut, was elected as the new director. In the reports of the officers it was noted that the Laboratory was having one of its most successful seasons. Thirty-seven workers and their assistants were in attendance.

The American Academy of Dental Medicine, at its first annual meeting in June, awarded an honorary membership to Walter Henry Wright, dean, New York University College of Dentistry. Officers of the Academy elected for the coming year are: Sidney Sorrin, president; J. Lewis Blass, president-elect; William M. Greenhut, secretary; George Bruns, treasurer; and Allan N. Arvins, editor.

NRC News

The Radio Corporation of America Fellowship Board of the NRC announces the first series of awards to five young scientists. These fellowships for the academic year 1947-48 provide for advanced graduate study and research in the broad field of electronics. Recipients of the fellowships are: Arnold S. Epstein, B.S. in electrical engineering, Lehigh University, for graduate study at the University of Pennsylvania with special reference to silenium and other rectifiers as variable capacitors; Willis W. Harman, B.S. in electrical engineering, University of Washington, for graduate study at Stanford University on the use of microwaves in certain cavity oscillators; Arnold R. Moore, B.S. in chemistry, Polytechnic Institute of Brooklyn, for graduate study at Cornell University on electronic properties of semiconductors; Sol Raboy, A.B. in physics, Brooklyn College, for graduate study

at Carnegie Institute of Technology on the properties of semiconductors and their use as crystal counters; and H. Gunther Rudenberg, S.B. and M.A. in physics, Harvard University, for continuation of graduate study at Harvard University on the operation and design of wide-band pulse amplifiers.

These fellowships have been made possible by a grant to the NRC from the Radio Corporation of America, Inc., for the purpose of increasing the number of trained scientific personnel and for the furtherance of electronics and closely related fields. The selection of the fellows and the administration of the fellowship program are under the direction of the RCA Fellowship Board, the members of which are Frederick E. Terman, chairman; C. C. Chambers, W. G. Dow, Frederick M. Feiker, R. Clifton Gibbs, I. I. Rabi, and Lloyd P. Smith.

Applications for awards for the academic year 1948-49 must be filed before February 1. Stipends will be from \$1,600 to \$2,100 a year, and an added amount, not to exceed \$600, may be provided annually to the institutions to which the fellow is assigned for tuition or necessary equipment.

Further information concerning these fellowships and application blanks may be secured from the Secretary of the RCA Fellowship Board, National Research Council, 2101 Constitution Avenue, Washington 25, D. C.

Recent Deaths

John L. Ulrich, 69, physiologist and former faculty member at the Johns Hopkins Medical School, the University of Maryland, Catholic University, and head of the Physiology Department, New York Homeopathic Medical College 1928-32, died in Baltimore on August 8.

Tiffany J. Williams, 49, professor of obstetrics and gynecology, University of Virginia, died August 19 in Charlottesville, Virginia.

Frederick M. Pederson, 78, formerly associate professor of mathematics, City College of New York, died August 20 at Hewletts Landing, Lake George, New York.

Willard L. Severinghaus, 65, a member of the physics staff at Columbia University from 1907 until his retirement in 1941, died August 28 in New York City after a long illness.

William E. Wickenden, 64, president of Case Institute of Technology since 1929, died of a heart attack at his summer home in Jaffrey, New Hampshire, on August 31, the day of his retirement from the presidency.

Shuichi Kusaka, 31, assistant professor of physics, Princeton University, was drowned at Beach Haven, New Jersey, on August 31.

Rudolf W. Glaser, 59, entomologist and zoologist who for the past 27 years had been associated with the Rockefeller Institute for Medical Research, died on September 4 in Princeton, New Jersey.

John Herr Musser, 64, professor of medicine at Tulane University since 1925, died September 5 in New Orleans.

Robert G. Green, 52, professor of bacteriology, University of Minnesota, since 1929, died September 6 at his home in Minneapolis.

Frank O. Ellenwood, 68, John Edson Sweet professor of engineering, Cornell University, and an authority on steam-power plants, died in Strong Memorial Hospital, Rochester, New York, on September 7.

James S. Plant, 57, director of the Essex County Juvenile Clinic, Newark, New Jersey, since 1923, died September 7 at his home in South Orange, New Jersey, following a heart attack.

Rear-Admiral James C. Pryor, 76, onetime head, Department of Hygiene, Naval Medical School, and professor of preventive medicine, George Washington University, died September 8 in the Naval Hospital, Brooklyn, after a long illness.

Magel C. Wilder, 49, assistant professor of biology, Brown University, died September 8 at her summer home in Hamilton, Rhode Island.

Soup fin sharks and ling cod will provide the raw materials for a new vitamin-concentrating plant now being built for Vitamin Sales Corporation of South Africa at Simonstown, about 23 miles from Cape Town. Oil from the livers of these fish contains high concentrations of Vitamin A. The technique called the Solexol Process, developed by the M. W. Kellogg Company, chemical engineers

of New York, will be employed. By this processing technique over 90 per cent of the original Vitamin A and D content of a crude fish oil is recovered in the concentrate. In its location close to abundant raw materials, its use of this process, and with a ready market for its various products, the Solexol vitamin unit, first of its kind in the world, is expected to set a pattern for future marine oil processing plants.

The fall campaign of the New York University-Bellevue Medical Center Fund will be officially inaugurated at a dinner on September 30 at the Waldorf-Astoria Hotel to be attended by over 1,500 leaders in medicine and industry. The principal speaker will be Frank W. Abrams, chairman of the Board, Standard Oil Company of New Jersey. In a discussion of "Medicine's New Role in Industry" Harry Woodburn Chase, chancellor, New York University, Robert Kehoe, director, Kettering Laboratory, Cincinnati, and Howard A. Rusk, chairman of the University's Department of Rehabilitation, will complete the list of speakers.

Statin Caronamide, a new drug inhibiting the renal tubular excretion of penicillin and elevating the concentration of penicillin in plasma from two to seven times, has been reported in the August issue of *The American Journal of Medicine*. The clinical tests were conducted at the Pennsylvania Hospital, Philadelphia, by Christopher C. Shaw, William P. Boger, and J. William Crosson, Medical Research Division, Sharp & Dohme, Inc., and Walter W. Kemp, William S. M. Ling, and Garfield G. Duncan, Department of Medicine, The Pennsylvania Hospital. The results of the work have indicated that the most satisfactory administration of the new drug is by mouth every three hours. The Statin-penicillin therapy is expected to be of greatest value in combating subacute bacterial endocarditis and osteomyelitis.

The National Bureau of Standards has established a new Division of Building Technology, the nucleus of which consists of the following sections: structural engineering; fire protection; heating, ventilating, and air-conditioning; exterior and interior coverings; and codes and specifications. Research will be limited to physics, chemistry, and engineering. Much of the work to be carried on will be primarily for the benefit of other governmental agencies, although

the results should be useful to the entire construction industry and it is intended that they shall be made available for this purpose.

Acta Chemica Scandinavica, a new journal in the field of chemistry, has been inaugurated by a group of Scandinavian scientists to further research done in the various Scandinavian countries and as a means of presenting new ideas and results to colleagues all over the world. The *Acta* aims thus also at a true international exchange of scientific information in the field of chemistry. All papers in the journal will be written in English, French, or German, and by Scandinavian scientists or others working in Scandinavian laboratories. It will appear 10 times per year, with a yearly volume totaling about 1,200 pages. Subscription rate is \$8.50 plus postage. Orders should be addressed to Einar Munksgaard, Nørregade 6, Copenhagen, Denmark.

According to an announcement by Science Service, a second famous Harvard telescope has arrived in Torun, Poland, to become the chief instrument of the new observatory at the birthplace of Nicholas Copernicus. The 8-inch Draper telescope, which provided spectrograms of 100,000 northern stars for the late Annie Jump Cannon's 10-volume Draper catalogue of spectral classes, positions, and brightness, has been especially rehabilitated and equipped for a Polish program of research on star colors, temperatures, and chemical compositions.

Make Plans for—

American Institute of Electrical Engineers, Middle Eastern District Meeting, September 23-25, Dayton, Ohio.

American Public Health Association, October 6-10, Atlantic City, New Jersey.

American Academy of Ophthalmology and Otolaryngology, October 12-17, Chicago.

Society of Rheology, October 30-31, New York City.

American Association for the Advancement of Science, 114th Meeting, December 26-31, Chicago, Illinois.