

News and Notes

Scientists in the News

Franklin Institute's Hollingshead N. Taylor Memorial Award for 1951 was given to **Dick Adams**, formerly of Madisonville, Ky., but for several years past a patient at Temple University Hospital. The Taylor Award, established in 1938, is presented annually to a young man between the ages of 18 and 22, to assist in defraying expenses of flight instruction, aviation ground school, or instrument flight training. It was founded by Mrs. Taylor, of Anselma, Pa., in memory of her husband, a pioneer in the field of aviation and past president of the Aero Club of Pennsylvania, which is custodian of the fund.

J. Burns Amberson, visiting physician in charge of the chest service of Bellevue Hospital, will give one of three scientific papers at the twelfth conference of the International Union against Tuberculosis, to be held in Rio de Janeiro Aug. 24-27. Dr. Amberson will present the principal report on "Treatment and Prognosis in Minimal Pulmonary Tuberculosis." Other papers will be on "Immunity and Tuberculosis," with **Arvid Wallgren**, of Sweden, as the principal speaker, and "Organization and Results in Regard to the Tuberculosis Campaign of Mass Surveys," with **Fernando Gomez**, of Uruguay, as chief reporter. **Manoel de Abreu**, of Rio de Janeiro, president of the union, will preside at the conference, the first since the Copenhagen conference in 1950.

Geoffrey Beale, of the Institute of Animal Genetics, University of Edinburgh, will join **T. M. Sonneborn** at Indiana University, to work on a program of research in heredity. Dr. Beale worked during 1947-48 as a Rockefeller fellow in Dr. Sonneborn's laboratory and has since done similar research in Edinburgh.

William Beebe and the staff of the Department of Tropical Research of the New York Zoological Society sailed for Trinidad on Jan. 14, to take up residence for about five months at the department's laboratory in the Arima Valley. This is the fiftieth expedition of the department. Main objectives are completion of a preliminary report on the ecology of Arima Valley, comparative studies of social behavior in butterflies, and defensive behavior in mantids. Work on the analysis of insect color patterns and the ecology of caves will be continued.

Henry K. Beecher, Dorr professor of research in anaesthesia at Harvard Medical School, has been made a Chevalier of the Legion of Honor, by decree of the President of France.

Martin E. Brigham, who recently completed the requirements for the Ph.D. degree at the University of Michigan, has been appointed an instructor in geography at Ohio State University. He succeeds **Dee R. Eberhart**, who has accepted a position in the East Tennessee State College at Johnson City.

N. H. Ceaglske, professor of chemical engineering at the University of Minnesota, will join the staff of the Department of Mechanical Engineering at Case Institute of Technology as visiting professor of instrumentation. Dr. Ceaglske will be at Case during the second semester of the current academic year that began Feb. 4. He is on leave of absence from his professorship at Minnesota.

Ralph W. Chaney, professor of paleontology at the University of California, has recently returned from Japan, where he spent his sabbatical leave under the auspices of the American Philosophical Society and the Carnegie Institution of Washington. His work involved detailed museum and field studies of Tertiary floras, which were supplemented by lectures and research conferences at several universities in Japan, and at the Birbal Sahni Institute of Paleobotany, Lucknow, India.

Barnett Cohen, of Johns Hopkins, has retired as editor of *Bacteriological Reviews*, a technical journal published by the Society of American Bacteriologists, after serving since 1937. He has been succeeded by **Perry Wilson**, professor of bacteriology at the University of Wisconsin.

John G. Dean is now a chemical research consultant with headquarters at Tuckahoe, N. Y. He was formerly with the International Nickel Co., in charge of the Industrial Chemicals Section, Development and Research Division.

Howard Florey, professor of pathology at the University of Oxford, and **Ian Heilbron**, director of the Brewing Industry Research Foundation, have been awarded Royal Medals by the Council of the Royal Society of Great Britain, the former for his work on antibiotics and the latter for his work on vitamin A and polyene synthesis.

Thomas R. P. Gibb, Jr., has been appointed to the newly created position of director of sponsored research in chemistry at Tufts College. Dr. Gibb has been on the MIT faculty and later spent five years as an industrial research director. He is chairman-elect of the Northeastern Section of the American Chemical Society.

Carl G. Hartman has been made associate director of the Ortho Research Foundation, Raritan, N. J. **N. Millman** succeeds Dr. Hartman as director of the Division of Physiology and Pharmacology.

K. C. Heald, vice president of the Gulf Oil Corporation, Pittsburgh, will receive the Sidney Powers Memorial Medal of the American Association of Petroleum Geologists at its annual meeting Mar. 25 in Los Angeles "in recognition of his long and outstanding service and contributions in petroleum geology, and for his leadership in research bearing on the important problem of the origin of oil."

Margaret A. Losty has been named director of the new division of nursing services by the National Foundation for Infantile Paralysis. Miss Losty will serve as a consultant and in a liaison capacity between the foundation and other organizations concerned with providing poliomyelitis nursing services.

Donald M. Morrison has succeeded **O. B. Hopkins** as head of the Petroleum Division of the Canadian government, which has been responsible for Canada's extensive program of exploration, pipeline installation, and refinery development. Dr. Hopkins was loaned to the Canadian government by Imperial Oil Limited. Dr. Morrison, who was deputy director of the division, is on loan from the Shell Oil Co.

John Ryer Poppen, Medical Corps, USN, has retired from active Navy duty. He has been serving as director of the Navy's newest Aviation Medical Acceleration Laboratory located at the Naval Air Development Center, Johnsville, Bucks Co., Pa., since November 1949. Captain Poppen first entered the Naval service in 1917 as a coal passer.

Virgil P. Quirk has been appointed instructor in mineral technology extension of Pennsylvania State's School of Mineral Industries. He has recently been employed as a ceramic engineer for the Owensboro (Ky.) Sewer Pipe Company.

Herman E. Ries, Jr., has been appointed research associate in the Whiting Research Laboratories of Standard Oil Company (Indiana). Dr. Ries has been associated with the Sinclair Refining Company for the past fifteen years.

The following persons from abroad were recent visitors at the Eastern Regional Research Laboratory of the Agricultural Research Administration, Philadelphia: **Arturo Roque**, director, Agricultural Experiment Station, Rio Piedras, Puerto Rico; **M. H. Myklebust**, Valldal, Norway; **Renato Allegrina**, S. A. Leologu Milano, Milan; and **M. Suwanto**, **A. H. Siregar Moedahar**, and **P. Soedibio**, of the Ministry of Economic Affairs, Indonesia.

Herbert P. Sarett has been appointed chief of the Nutritional Research Division, Mead Johnson Research Laboratories. Dr. Sarett was formerly associate professor of biochemistry and medicine at Tulane.

After 37 years of service, **R. R. Spencer** has retired from the Commissioned Corps of the Public Health Service. Dr. Spencer's career with the Public Health Service has been marked by many achievements, probably the most notable being his part in the development, with the late **R. R. Parker**, of a vaccine against Rocky Mountain spotted fever in 1922. More than a third of Dr. Spencer's career has been devoted to work in the field of cancer. Detailed to the National Cancer Institute soon after its creation in 1937, he served from 1943 to 1947 as its director. Dr. Spencer has accepted an appointment as a special lecturer in cancer to conduct seminars for physicians throughout the state of Virginia under the joint sponsorship of

the State Medical Society, the Old Dominion Medical Society, the Virginia Division of the American Cancer Society, and the University of Virginia. He assumed his new duties on Feb. 1, but is spending six weeks in New York City visiting cancer clinics and hospitals to observe the practical application of the newest developments in cancer diagnosis and treatment.

James Thorp, of the Division of Soil Survey, USDA, has accepted appointment as professor of geology and soils at Earlham College, Richmond, Ind. He will devote about half-time to teaching geology and soils, and half-time to the soil research program in the new Agricultural Science Department of the college. During the summer months he will be employed in research for the Division of Soil Survey.

Robert Watson-Watt, president of the Royal Meteorological Association and of the Institute of Navigation, will receive £50,000, tax-free, from the British government for his work in the development of radar before and during World War II. Sir Robert's prize is the largest since the award of £100,000 to Frank Whittle in 1948 for the invention of the jet engine.

Education

The **Institute of Marine Science**, Port Aransas, a relatively new branch of the University of Texas, has recently established three courses. The general introductory course in marine science is given in the first semester of the long session, and marine fishery biology and problems courses are given during the summer for graduates only. The institute is situated on Mustang Island, off the south Texas coast, on the pass connecting a large bay system and the Gulf of Mexico. A dock laboratory over the water, an onshore laboratory, and a forty-foot launch are used. Quarters with cooking facilities are provided free for students and visiting investigators. For additional information write the acting director, Port Aransas.

At **Johns Hopkins Hospital**, Richard H. Follis, Jr., Edwards A. Park, and Deborah Jackson are studying the bones of a consecutive series of 1303 white and Negro children autopsied at the Harriet Lane Home of the hospital between 1926 and 1942. In the one-day to two-year-old children they have found an incidence of scurvy more than 11.5 times as great as had been shown for this group by ordinary methods of clinical diagnosis. Their work is part of a larger analysis, still under way, of the effects of specific and nonspecific factors on skeletal tissue.

The **University of Kansas** has installed a color television system for under- and postgraduate medical instruction in its Medical Center in Kansas City, Kan. Three direct-view receivers in as many rooms will accommodate audiences of up to 40 at each point. The sound system is two-way, so that students may ask questions of the surgeon-lecturer.

A Division of Research and Industry, headed by H. Horton Sheldon, has been established at the **University of Miami** to expand and correlate all university

research and operate as a coordinating center. All research funds will be channeled through the division. Dr. Sheldon, industrial engineer who joined the Miami staff in 1946, is the inventor of the colorscope for electric color matching of textiles, codiscoverer of the actino electric effect, and discoverer of selective adsorption in charcoals.

An anti-icing research center has been established at the **University of Michigan** in the Engineering Research Institute. The Wright Air Development Center, a division of the USAF, is collaborating on the project, which will be under the direction of Myron Tribus, now on leave from the Department of Engineering, University of California at Los Angeles.

Northwestern University Medical School has appointed George M. Landau assistant professor of radiology and Lee G. Sewall associate in nervous and mental diseases. Fred Merrifield has been made associate professor of surgery, and the following have been made assistant professors: Reinhold Benesch (biochemistry), Nathan N. Crohn (surgery), Paul Szanto (pathology). George C. Turner has been promoted to associate in medicine.

An **Office of Scientific Research** has been established in the U. S. Air Force, and under the direction of Oliver G. Haywood, formerly of Los Alamos Scientific Laboratory, and Selby M. Skinner, of the AEC Chicago Operations Office, will sponsor graduate work in fluid mechanics, physics, chemistry, and mathematics. University and research organizations interested in cooperating with the Air Force in the program should address the OSR, P. O. Box 1395, Baltimore 3, Md.

The **U. S. Office of Education**, through a grant of \$25,500 from the Association for the Aid of Crippled Children, will make a year's study of the qualifications and preparation of those needed to teach the nation's nearly 5 million school-age exceptional children, only about 15 per cent of whom are reported to be receiving special help. The study will be directed by Romaine Mackie, specialist, Schools for Physically Handicapped, with the assistance of a national committee of leaders in special education and an Office of Education policy committee.

The **Woods Hole Oceanographic Institution** research vessels *Atlantis* and *Albatross III* have set sail for a 15,000-mile, four-month investigation that will take them to Bermuda, Dakar, Recife, Barbados, and Trinidad, in a study of the equatorial currents between West Africa and South America. The coastal waters off West Africa have not been surveyed since the German *Meteor* expedition of 25 years ago. In all, the ships are expected to make 166 stations. Bostwick H. Ketchum will be in charge of the work on the *Atlantis*, and Francis A. Richards on the *Albatross III*. Ocean current investigations will be under the supervision of Frederick C. Fuglister and Columbus O'D. Iselin, Jr., who will join the expedition at Recife.

Grants and Fellowships

Applications for grants-in-aid for chemical research from the Cyrus M. Warren Fund of the **American Academy of Arts and Sciences** should be sent to the chairman of the committee, Frederick G. Keyes, MIT, Cambridge 39, Mass., by *Apr. 21*. Grants in excess of \$300 are seldom made, and are generally for apparatus and supplies needed for research. No funds are awarded for salaries.

The **Army Quartermaster Division** has awarded \$40,000 to the Department of Biochemistry at Northwestern University to extend investigations of edema and dehydration, in cooperation with the Research Service at Hines VA Hospital and the Army's Climatic Research Laboratory, Lawrence, Mass.

The **Commonwealth Fund of New York** has awarded a two-year annual grant of \$22,500 to the University of Pennsylvania to implement its new "Doctor-in-Training" program (*SCIENCE*, 114, 537 [1951]). Forty students are taking the course, which is administered by the Departments of Public Health and Preventive Medicine and Psychiatry, the university's hospital, and the hospital's Social Service Department.

The **Du Pont Company** has awarded 75 postgraduate fellowships to 47 universities and grants-in-aid to 15 universities for 1952-53, the latter for unrestricted use in the field of fundamental chemical research. By increasing its appropriation for such purposes to \$510,000, the company has been able to contribute \$15,000 per year to each of the 10 universities now receiving grants and to make new grants of \$10,000 each to five others. In addition to the funds provided for fellowships, the company will pay the tuition of the fellows. Du Pont also continued its support of the Wallace Hume Carothers research professorship in chemistry, established at Harvard last year.

Massachusetts Institute of Technology is offering graduate and advanced research fellowships in electronics, sponsored by a group of industrial organizations. Stipends for graduate student fellowships range from \$1500 to \$2100, plus tuition, and advanced research fellowships range from \$3000 upward. Application should be made at least four months prior to intended date of entrance, to the director, Research Laboratory of Electronics. A few research assistantships are also available in the Laboratory for students who wish to pursue a graduate program on a part-time basis.

The **National Paraplegia Foundation** will continue its postgraduate medical and pre- and postdoctorate basic science fellowships for research in spinal cord disease and trauma and in the commonly associated complications. The fellowships carry a minimum stipend of \$3000 per year, and appointments will run for one, two, or three years, subject to renewal. Application forms, returnable before *May 1*, may be obtained from the chairman of the Medical Advisory Committee of the foundation, Broad-Grace Arcade, Richmond 19, Va.

The **National Research Council Committee for Research in Problems of Sex** will receive applications until *Mar. 15* for new grants-in-aid for the fiscal year beginning July 1. Blanks may be obtained from the Division of Medical Sciences, 2101 Constitution Ave., Washington 25, D. C. Inquiries should be addressed to the chairman of the committee, George W. Corner.

National Vitamin Foundation has awarded 11 new grants for research in vitamins and nutrition. In addition to this direct aid, the foundation has granted \$800 to the Registry of Pathology of Nutritional Diseases, recently set up as a unit of the American Registry of Pathology of the Armed Forces Institute of Pathology, Washington.

The **New York Academy of Medicine** will award a grant-in-aid of \$2000 under the Edward N. Gibbs Memorial Prize for original research in diseases of the kidney. Candidates must be physicians, resident in the U. S., who have been graduated at least three years. Evidence of research already performed and protocols of proposed research must be submitted with applications, which should be mailed prior to *Apr. 15* to Robert F. Loeb, Gibbs Prize Committee, Presbyterian Hospital, 622 W. 168th St., New York 32.

The U. S. **Ramsay Memorial Fellowship** for chemical research has been awarded to Margaret D. Cameron for study at the University of Leeds. This is a re-establishment, under the Fulbright Commission, of a fellowship that has been in abeyance since 1928. A British fellowship at University College, London, a Glasgow fellowship at the University of Cambridge, a Canadian fellowship at the University of Leeds, and two Spanish fellowships—at Oxford and Bristol—were also awarded.

Rockefeller Foundation grants for the last quarter of 1951 totaled \$9,884,000, and General Education Board appropriations for the same quarter, \$11,600,000. A Division of Natural Sciences and Agriculture, under the direction of Warren Weaver, will be created to provide a more widespread program in agriculture. J. G. Harrar, who has been in charge of agricultural field operations in Mexico and Colombia, was appointed deputy director for agriculture, with headquarters in New York. E. J. Wellhausen will be local director for the Mexican Agricultural Program, and L. W. Roberts will continue in a similar post in Colombia. In the social sciences, the foundation has given a capital fund of approximately \$1,500,000 to the Social Science Research Council of New York, to be held intact by the council for ten years; \$147,900 to Yale University for continuation of research on communication and attitude change, under the direction of Carl I. Hovland; two grants totaling \$175,000 to Harvard University's Laboratory of Social Relations for the study of comparative cultural values and the physiological aspects of the development of behavior patterns. Foundation laboratories have been given \$350,000 to extend investigations on insect-borne viruses and their relation to human disease. Other

researchers in all parts of the world will receive assistance ranging from \$300 to \$200,000.

The **Williams-Waterman Fund** of the Research Corporation of New York has made a grant of \$3,700 for the support of research in biochemistry at the University of Texas Medical Branch, Galveston, under the direction of John G. Bieri.

In the Laboratories

Kenneth C. Towe has been elected president of **American Cyanamid Company**, succeeding Raymond C. Gaugler, who died Jan. 11. Mr. Towe, who has been a director of the company since 1939 and a vice president since 1945, became associated with American Cyanamid in 1926. Edwin Kaleita, chemist, has joined the Biochemistry Research Department of the Lederle Laboratories Division, and Harriet H. Spagnoli, biologist, has been added to the viral and rickettsial research staff.

The **Borden Food Products Company**, a new unit of the Borden Company, has named Willis H. Gurley president. Vice presidents of the new division are Daniel M. Dent, George M. McCoy, Charles S. Strickler, and Sam Thompson.

William F. Clapp Laboratories, Inc., of Duxbury, Mass., have elected A. P. Richards president and director of the laboratories to succeed Dr. Clapp, who died on Dec. 28. Mr. Richards, formerly vice president, had been Dr. Clapp's principal assistant for 16 years in the extensive research in marine deterioration carried on by the laboratories.

Eastman Kodak Company has begun operations at its new chemical plant on the Sabine River, near Longview, Texas. Operated by the Texas Eastman Company, the plant will produce raw materials for the Tennessee Eastman Company, including ethanol and derivatives of *N*-butyraldehyde and isobutyraldehyde. Twenty-one of the projected 28 buildings on the Sabine site have been completed.

Plans for expansion at **Hercules Powder Company** include the construction of an \$8,000,000 plant in the Delaware River industrial area for the production of phenol, *p*-cresol, and acetone. The new plant is scheduled for completion in 1953. Among personnel changes, Robert W. Lawrence has been named manager of explosives development to succeed C. H. Cordie, who recently retired; Donald H. Sheffield has been made assistant director of operations of the Naval Stores Department, and R. Stanley George, former associate technical director of the Experiment Station, will succeed him as manager of development; Peter Van Wyck will replace Dr. George, and Howard G. Tennent will replace Dr. Van Wyck as manager of the Experiment Station; P. Burke Welldon succeeds Dr. Tennent as manager of the Cellulose Products Research Division. At the Hercules pilot plant, Klamath Falls, Ore., opened in 1950 to study Western wood and its use in the wood naval stores industry, Lyle W. Rothenberger, formerly chief chemist,

has been appointed general superintendent, succeeding George E. Bosserdet, who has become manager of Georgia operations of the company's Naval Stores Department.

E. R. Squibb & Sons have created a Division of Engineering, to be headed by Bruce A. Hainsworth as director. Mr. Hainsworth, formerly district chief engineer of the H. K. Ferguson Company, Cleveland, will supervise the engineering and construction requirements of the parent company and its domestic and foreign subsidiaries.

United States Rubber Company has appointed Clayton F. Ruebensaal, formerly technical director, plastics and resins, for the Naugatuck Chemical division, commercial development manager, a newly created post. He will be succeeded by D. Lorin Schoene, formerly manager of organic research.

Meetings and Elections

The **American Association of Physical Anthropologists** will hold its annual meeting, sponsored by the Wenner-Gren Foundation and Hunter College, at the New York Academy of Sciences Mar. 21-23. E. Carl Sensenig, of the Medical College of Alabama, is organizing a symposium on the back, which will include presentations by clinicians as well as by human biologists. H. L. Shapiro, of the American Museum of Natural History, will discuss the Unesco Statement on Race at the annual dinner meeting.

"Recent Advances in the Study of the Venereal Diseases" will be the topic of the **Annual Venereal Disease Symposium** to be held May 1-2 in Washington under the auspices of the Experimental Therapeutics Study Section of the National Institutes of Health and the American Venereal Disease Association. Further information about the symposium, which is open to all interested persons, may be obtained from Frederick W. Appel, National Institutes of Health, Bethesda 14, Md., or from William L. Fleming, 750 Harrison Ave., Boston 18.

The **Association for Research in Nervous and Mental Disease** elected the following officers at its meeting in New York last December: president, H. Houston Merritt; vice presidents, Robert F. Loeb and Charles D. Aring; secretary-treasurer, Clarence C. Hare; and assistant secretary, Rollo J. Masselink.

A **Biostatistics Conference** will be held at Iowa State College June 16-July 25. Each day will begin with a lecture by a biologist on a problem that seems amenable to quantitative treatment and a lecture by a statistician on quantitative methods appropriate for such problems. Discussion sessions will be held later in the day. For details inquire of T. A. Bancroft, Statistics Department, Ames.

The **Committee for the Scientific Study of Religion**, recently organized by social scientists interested in the subject, is currently holding semiannual meetings at Harvard. At the fall meeting, Nov. 3, research papers

and a round-table discussion were on the program. The spring meeting will be held Apr. 26. Qualified social scientists with empirical research to report may apply for places on future programs by writing, giving a full description of their work, to the chairman, Talcott Parsons, Department of Social Relations, Harvard. Inquiries about the organization and about membership should be directed to the secretary-treasurer, J. Paul Williams, Mount Holyoke College.

The **Ecological Society of America**, which met in Minneapolis last September, elected Frank C. Gates president, David E. Davis vice president, and Fred H. Test treasurer. Edsko J. Dyksterhuis was elected chairman of the Committee on Applied Ecology.

Officers elected by the **International Fat and Oil Commission** of the Union of Pure and Applied Chemistry during its meeting in New York last fall were: president, F. D. Snell (USA); vice president, H. Sturm (Switzerland); and secretary-treasurer, Jean Vizern (France). They will hold office until the meeting in Sweden in 1953.

Atlantic City will be the locale May 1-7 of the **International Foundry Congress and Show**, which is held every sixth year in this country. The International Committee of Foundry Technical Associations, representing England, France, Belgium, the Netherlands, Italy, Sweden, Switzerland, Spain, Denmark, Norway, India, and the U. S., expects 300 to 400 international visitors, and a two-week pre-meeting study tour of major foundry centers is being arranged for them. Presiding officers of the congress will be Walter L. Seelbach, as president of the American Foundrymen's Society, and Guido Vanzetti, Milan, as president of the International Committee.

The **Society for Experimental Stress Analysis** will hold its spring meeting in Indianapolis May 14-16. The society is an outgrowth of the Eastern Photoelastic Conference, and its interests now embrace also the measurement of strains and other mechanical quantities, stress analysis, and most other branches of engineering mechanics, with emphasis on application. Technical sessions of this first midwestern meeting will be held at the Lincoln Hotel, under the direction of J. M. MacLean, and a field trip through the Link Belt Manufacturing Company's plant is being arranged.

A **Symposium on Acoustics and Chemistry**, sponsored by the Office of Naval Research and Western Reserve University, will be held on the university campus May 21-23. Highlighted by a round-table discussion on possible applications of acoustics in chemistry, the program will consist of both invited review papers and contributed papers on original research. Those interested in contributing papers should submit abstracts of approximately 500 words *in duplicate* to Ernest Yeager, Department of Chemistry, Western Reserve, not later than Mar. 21. For other information concerning the symposium, address the director, ONR, 844 N. Rush St., Chicago 11.

Miscellaneous

The American National Red Cross Blood Program has available a fair-sized quantity of the following materials that are not suitable for clinical use but might be of interest to investigators in the fields of physical chemistry, biology, immunology, and related sciences: Human plasma protein Fraction I (fibrinogen) dried, as well as in the form of fibrin film and foam; Fraction II (γ -globulin) dried pyrogenic powder; Fraction III-2 (dried thrombin); Fraction IV-3,4 (α - and β -globulins) dried lipoproteins. These materials are available without charge and represent material surplus to the needs of the Blood Program. Requests for this material should be addressed to the Red Cross, Washington 13, D. C., immediately.

Point IV scientists have been sent to the following countries in the past few weeks: J. A. Monroe, entomologist, to Bolivia; William B. Mather, mineral technologist, and Fred A. Thompson, agricultural engineer, to Brazil; Harold Mowry, horticulturist, to Costa Rica; Arthur C. Kevorkian, fiber crop specialist, to Cuba; James R. Dawson, dairy husbandman, Woodrow W. Leake, agronomist, Hendrik Versluis, veterinarian, and Jay M. Hall, animal husbandman, to Iran; Cornelius C. Lewis, soils agronomist, and Charles E. Pegg, veterinarian, to Liberia.

The full text of the Preliminary Program of the Research Committee on Synthetic Time Systems has been approved by the Executive Board of the American Institute of Industrial Engineers, and the final program will be presented as a paper at the annual convention of the institute in Dayton, Ohio, May 10. The Research Program will be directed by V. D. Prian, industrial engineer and research scientist at the Lewis Flight Propulsion Laboratory.

The first issue of *Public Health Reports*, an expanded version of the weekly technical journal of the same name published since 1878 by the USPHS, appeared last month. Edward G. McGavran, dean of the School of Public Health, University of North Carolina, has been appointed chairman of the 12-member Board of Editors. The new monthly will incorporate two other PHS technical publications, the *Journal of Venereal Disease Information* and the *Communicable Disease Center Bulletin*, in addition to assuming the functions of the monthly *Tuberculosis Control Issues*. Howard Ennes is executive editor, and Taft S. Feiman managing editor.

Paul Rosenberg Associates, consulting physicists, formerly of New York City, have moved to new and larger quarters at 100 Stevens Ave., Mount Vernon, N. Y. Herbert A. Elion, project engineer, has recently been appointed to the research staff.

Recent Deaths

Chester S. Allen (70), of New York, civil engineer, Auburndale, Mass., Jan. 6; Elmer R. Arn (—), surgeon,

Dayton, Dec. 24; Harold S. Arnold (74), bacteriologist, New Haven, Conn., Dec. 20; M. Wilson Arthur (61), electrical engineer, Jackson, Mich., Jan. 4; W. Lloyd Aycock (63), epidemiologist, Boston, Oct. 24; William B. Bailey (78), economist, West Hartford, Conn., Jan. 10; Percy S. Barnhart (—), naturalist, La Jolla, Calif., Dec. 23; Oran C. Boyd, Sr. (57), plant pathologist, Amherst, Mass., Jan. 5; Clyde W. Brunson (56), Navy Medical Corps officer, Des Moines, Dec. 20; Gertrude S. Burlingham (79), biologist, Winter Park, Fla., Jan. 11; Arch I. Carson (87), surgeon, Cincinnati, Dec. 20; Ralph H. Chambers (80), civil engineer, New York, Dec. 22; Benjamin Chandlee (54), clinician, Philadelphia, Jan. 6; George P. Chittenden (72), tropical fruit production expert, Costa Rica, Jan. 12; William F. Clapp (71), marine biologist, Duxbury, Mass., Dec. 28; Walter W. Colpitts (77), civil engineer, Princeton, N. J., Dec. 23; Gerald A. Cowan (49), mechanical engineer, Cincinnati, Jan. 8.

Lawrence H. Daingerfield (78), meteorologist, Beverly Hills, Calif., Jan. 6; Harry S. Dolbey (77), engineer and inventor, Warwick, R. I., Dec. 27; Robert J. Fletcher (60), chemist, Irvington, N. J., Jan. 1; Cyril Sankey Fox (65), geologist, Calcutta, Dec. 28; Florence H. Frankel (66), physician, Pinewald, N. J., Dec. 21; Raymond C. Gaugler (59), president, American Cyanamid Company, New Rochelle, N. Y., Jan. 11; Malcolm M. Haring (57), physical chemist, Dayton, Jan. 1; Henri Hartmann (91), surgeon, Paris, Jan. 2; Charles Haydock (64), engineer, Philadelphia, Aug. 31; James R. Jack (85), marine engineer and naval architect, Watertown, Mass., Jan. 6; Walter L. G. Joerg (66), cartographer and polar geographer, Washington, D. C., Jan. 7; Foster Kennedy (67), neurologist, New York, Jan. 7; Tel Clarence Kimball (58), mathematician, Trenton, N. J., Jan. 8.

Alberta A. La Pointe (60), inventor, West Hartford, Conn., Dec. 24; Octa C. Leigh, Jr. (45), surgeon, New York, Dec. 27; Henry Link (62), psychologist, Port Chester, N. Y., Jan. 9; Floyd C. McDaniel (65), eye, ear, nose, and throat specialist, New York, Dec. 31; John M. McMillin (68), mining engineer and oil firm executive, New York, Dec. 27; Ralph E. Montonna (57), chemical engineer, Minneapolis, Jan. 7; George A. O'Donnell (52), seismologist, Boston, Jan. 1; Dallas B. Plemister (69), surgeon, Chicago, Dec. 28; George S. Pierson (98), civil engineer, Kalamazoo, Mich., Dec. 30; James A. Rafferty (65), of New York, organic chemist, Fort Lauderdale, Fla., Dec. 19; Arthur B. Ray (62), chemist, Port Washington, N. Y., Dec. 24; Elias A. Reed (56), neurologist, New York, Dec. 27; John J. Reilly (39), physician, Brooklyn, Dec. 30; Peter C. Reilly (82), industrialist, Indianapolis, Jan. 4; Josef W. Reutershan, Jr. (62), automotive engineer, Passaic, N. J., Dec. 23; Allen G. Ring (37), technical librarian, St. Louis, Jan. 9; Ira W. Rose (71), pharmacist, Durham, N. C., Jan. 14.

Moses Salzer (70), internist, Cincinnati, Jan. 6; Edwin W. Schreiber (61), mathematician, Macomb, Ill., Dec. 18; Alfred A. Schwartz (60), otolaryngologist, New York, Jan. 13; Augusta S. Slesinger (79), psychoanalyst and welfare worker, New York, Jan. 6; R. Gordon Smith (64), chemist, Nyack, N. Y., Jan. 15; John Stein (80), astronomer, Rome, Dec. 27; Albert I. Stiles (68), industrial engineer, Summit, N. J., Dec. 28; Charles C. Stillman (74), social welfare administrator, Columbus, Ohio, Jan. 5; Thomas W. Vaughan (81), geologist, Washington, D. C., Jan. 16; Walter H. Wright (58), dental prosthesis specialist, New York, Dec. 31; Zenon Zamora y Garcia (56), surgeon, Vedado, Cuba, Jan. 8.