

# News and Notes

## American Philosophical Society

THE AMERICAN PHILOSOPHICAL SOCIETY held its annual meeting in its hall on Independence Square, Philadelphia, on Thursday, Friday, and Saturday, April 19-21. The annual meeting of the Council was held on the afternoon and evening preceding the session on Thursday.

Edwin G. Conklin, president, presided at the Thursday morning session, at which papers were read by George Boas, of Johns Hopkins, on "The Influence of Philosophy on Science;" W. Albert Noyes, Jr., of the University of Rochester, on "Photochemistry as a Tool for the Study of Reaction Mechanism;" Alan J. B. Wace, of Farouk I University, Alexandria, on "Excavations at Mycenae 1950;" Aziz S. Atiya, of Farouk I University, Alexandria, on "The Monastery of St. Catherine and the Mount Sinai Expedition;" and T. J. J. See, U. S. Navy (ret.), on "The Hyperbolic Curves for the Stresses of Gravitation in Space Identical with St. Venant's Torsional Stress in Solids."

On Thursday afternoon Herbert F. Goodrich, vice president, occupied the chair for a program of papers by Charles H. Best, of the University of Toronto, on "Studies on Diabetes and Cirrhosis;" Arthur W. Hummel, of the Library of Congress, on "Some Basic Principles in Chinese Culture;" Linus Pauling, of Caltech, on "The Hemoglobin Molecule in Health and Disease;" Walter Kotschnig, of the Department of State, on "Economic and Social Foundations of the United Nations;" and Ephraim A. Speiser, of the University of Pennsylvania, on "The Ancient Near East and Modern Studies of Civilization."

On Thursday evening, Edwin P. Hubble, of Mount Wilson Observatory, gave the R. A. F. Penrose, Jr., Memorial Lecture on "Exploration in Space, the Cosmological Program for the Palomar Telescopes." The lecture was followed by a reception.

On Friday the open sessions were continued, and, with Arthur H. Compton presiding, papers were presented by Burrhus F. Skinner, of Harvard, on "Schedules of Reward and their Effects upon Behavior;" Herbert Heaton, of the University of Minnesota, on "The Industrial Immigrant, 1783-1812;" Zechariah Chafee, Jr., of Harvard, on "Some Problems of the Draft of the International Covenant on Human Rights;" DeCoursey Fales, Jr., of the University of Pennsylvania, on "The Theater at Kourion, Crete;" and Alfred H. Williams, of the Federal Reserve Bank of Philadelphia, on "Money Will Not Manage Itself."

Friday afternoon Waldo G. Leland presided, and papers were read by Alan Boyden, of Rutgers, on "Serological Comparisons of the Sera of Some Mammalia and their Biological Significance;" John F. Fulton, of Yale, on "The Physiological Basis of Psychosurgery;" Farrington Daniels, of the University of Wisconsin, on "Utilization of Solar Energy;" and

Quincy Wright, of the University of Chicago, on "Law and International Relations."

The annual dinner was held on Friday evening at the Benjamin Franklin Hotel, about 250 members and invited guests being present. Hu Shih, curator, Gest Oriental Library, Princeton University, gave the after-dinner address. The John F. Lewis Prize of \$300 and diploma for an important work that had been reported to the Society and published in its *Proceedings* was awarded to Joseph J. Spengler, professor of economics, Duke University, for his work on "Economic Factors in the Development of Densely Populated Areas."

On Saturday morning the annual business meeting was held, at which these officers and new members were elected: president, Edwin G. Conklin; vice presidents, Herbert F. Goodrich, Waldo G. Leland, Linus Pauling; secretaries, Jacob R. Schramm, Richard H. Shryock; curator, Leicester B. Holland; treasurer, Fidelity-Philadelphia Trust Company; councillors (to serve for three years), Jesse W. Beams, Class I, Ralph W. Chaney, Class II, Henry Allen Moe, Class III, Fred N. Robinson, Class IV. Recommended for membership were 16 residents of the U. S. and two foreign residents, including Winston Churchill.

## Scientists in the News

Howard B. Andervont, chief biologist at the National Cancer Institute, USPHS, has been elected to the Board of Scientific Directors of the Roscoe B. Jackson Memorial Laboratory. Other members of the board include L. C. Dunn, Columbia University, president; Frank Beach, Yale; Clarence C. Little, director of the Laboratory; Richard E. Shope, Merck Institute for Therapeutic Research; Homer Smith, New York University School of Medicine; Edwin B. Wilson, vice president of the National Academy of Sciences and professor emeritus, Harvard School of Public Health; and Sewall Wright, University of Chicago.

Herbert C. Batson has been appointed professor of biostatistics at the University of Illinois College of Medicine. He previously served as director of the Biologic Products Division of the Army Medical Service Graduate School, Washington, D. C.

Osborne A. Brines, professor of pathology at Wayne University College of Medicine, has been elected vice president of the International Society of Clinical Pathology. Dr. Brines will attend the International Congress of Clinical Pathology in London in July as official delegate of the American Society of Clinical Pathologists.

At the sixteenth Hughlings Jackson Memorial Lec-

ture, held at the Montreal Neurological Institute, the guest speaker was **J. B. Collip**, dean of the Faculty of Medicine and professor of medical research, University of Western Ontario, London. The subject of his address was "The Endocrines in Relation to Neurology."

**Herald R. Cox**, director of viral and rickettsial research of the Lederle Laboratory of the American Cyanamid Company, has been awarded the Howard Ricketts medal of the University of Chicago. Dr. Cox, for whom the Q-fever microorganism is named *Coxiella Burnetii*, is an authority on immunology of rickettsial diseases and preparations of vaccines. The Ricketts medal, honoring the late University of Chicago physician who died of typhus 41 years ago while working in Mexico City, is a national honor in recognition of outstanding medical work. Established by Mrs. H. T. Ricketts in 1949, the medal has previously been awarded to **Ludvig Hektoen**, University of Chicago professor emeritus of pathology; **Russell Wilder**, Mayo Clinics director of medicine; and **S. Burt Wolbach**, Harvard professor emeritus of pathology.

**Arthur C. Emelin** has been elected president of Schenley Laboratories, Inc., succeeding the late **Irving J. Seskis**. **Aaron F. Levy**, a member of the engineering staff since 1935, was named executive vice president. Dr. Emelin has been engaged in the pharmaceutical field since his graduation from Columbia University College of Pharmacy in 1924. He will make his headquarters at the company's production plant in Lawrenceburg, Ind.

**Louis B. Flexner** has been named professor of anatomy and head of the Anatomy Department at the University of Pennsylvania School of Medicine. Dr. Flexner, a researcher in chemical embryology and fetal physiology, has been with the Baltimore division of the Carnegie Institution of Washington.

**Stanley G. Fontanna**, deputy director of the Michigan Department of Conservation, has been appointed professor of forestry and dean of the School of Natural Resources at the University of Michigan, relieving the present dean, **Samuel T. Dana**, who will continue on the faculty in a new professorship known as the Filibert Roth University Professor of Forestry. He will teach courses in forest history, policy, and economics and plans to complete a book on forest policy.

Recent visitors at the National Bureau of Standards from abroad included **Walter Frings**, assistant professor, University of Cologne; **Makoto Hashii**, chairman of the board, Tokyo Precision Instrument Co.; **D. F. Galloway** and **Ronald Tilsley**, director and research manager, respectively, of the Production Engineering Research Association of Great Britain; **Louis Henry**, director of the Institut pour l'Encouragement de la Recherche Scientifique dans l'Industrie et l'Agriculture, Brussels; **D. De Meulemeester**, dean of the Engineering College and director of Fiber Research and Testing Laboratories, University of Ghent; **F. J. Le-**

**hany**, chief, Division of Electrotechnology, National Standards Laboratory, Australia; and **T. D. Northwood**, assistant research officer, National Research Council of Canada.

Four members of the Italian Fuel Research Station, Milan, whose visit to the United States is sponsored by ECA, also visited the Bureau. They were **Carlo Padovani**, director of the station, **C. Siniramed** and **Alberto Girelli**, chemists, and **M. Veneziani**, engineer. **James Ritchie**, director of the South African Bureau of Standards, recently arrived in the United States, has been visiting the Bureau to study the latest developments in testing for control of quality and standardization in general.

**Walter H. Gale**, associate professor of aeronautical engineering, has been appointed secretary of the Massachusetts Institute of Technology. Professor Gale will have executive responsibilities for the Institute's program of external relations, including alumni, and development of resources. In addition, he will facilitate the work of the officers, members, and committees of the MIT Corporation. Since 1946 he has been associate professor of aeronautical engineering, budget officer and deputy executive officer of the Department of Aeronautical Engineering, and director of the Summer Session at MIT.

**David Grant**, of Virginia Beach, Va., has been named director of the American Red Cross National Blood Program and medical director of the American Red Cross, succeeding **G. F. Grant**, of Washington, who has resigned. Dr. Grant will direct all phases of the Red Cross Blood Program, which provides blood for military and civilian needs and civil defense. **Russell Haden**, of Crozet, Va., has been named associate director of the program.

**Otto H. Haas**, of The American Museum of Natural History, will represent the museum at the Centennial of the Austrian Geological Survey, to be celebrated in Vienna June 12-16. He plans to do some research at museums and universities in France, Austria, Western Germany, Holland, and England.

**M. E. Hains**, Electron Physics Section, Associated Electrical Industries, Ltd., Research Laboratory, plans to visit various laboratories and universities in the U. S. during September-November.

**Harry F. Harlow**, professor of psychology, University of Wisconsin, and scientific adviser for psychology, Department of the Army, gave the American Museum of Natural History's twentieth annual James Arthur Lecture on the Evolution of the Human Brain. His subject was "The Brain and Learned Behavior."

**Alexander Hollaender**, director of the Biology Division of Oak Ridge National Laboratory, was a guest speaker this spring at a conference on the "Use of Tracer Isotopes in Steroid Chemistry and Biological Investigation," in London, sponsored by the Ciba Foundation, to promote international cooperation in medical and chemical research. Dr. Hollaender spoke

on "Mechanism of Chemical Protection Against Radiation."

**Joseph P. Holt**, of Pine Castle, Fla., has resigned as medical research director of the Medical Department of the Standard Oil Company (N. J.).

**Seth Q. Kline** has retired at the Army Chemical Center after 24 years of service—since 1940 as a chemical ordnance engineer in the Munitions Division of the Chemical and Radiological Laboratories.

On July 1 **L. Don Leet** will succeed **Marland P. Billings** as chairman of the Department of Geology and Geography and chairman of the Division of Geological Sciences at Harvard. At the same time, **Cornelius S. Hurlbut, Jr.**, will become counsellor of graduate students, and all communications concerning graduate studies should be addressed to him. **Russell Gibson** will become chairman of the board of advisers to handle undergraduate problems.

**Clarence H. Lorig**, assistant director, Battelle Memorial Institute, received from the University of Wisconsin, at its third annual Engineer's Day, a distinguished service citation for accomplishments in the field of metallurgical engineering. Last year Dr. Lorig was awarded the Joseph S. Seaman Gold Medal for metallurgical research by the American Foundrymen's Society.

**Robert B. McConnell** is now associated as research geologist with D. Harold Byrd and Affiliates in the companies' Dallas offices.

**Paul C. Mangelsdorf**, professor of botany and director of the Botanical Museum at Harvard University, delivered the Julius A. Nieuwland lectures in botany for 1950-51 at the University of Notre Dame. The title of the series was "Plants and Human Affairs."

**Raymond P. Mariella** has been appointed chairman of the Department of Chemistry (Lake Shore Campus) of Loyola University, of Chicago. He will assume his duties next September. Dr. Mariella was formerly assistant professor of chemistry at Northwestern University.

**Roy K. Marshall**, director of the Morehead Planetarium and professor of astronomy at the University of North Carolina since January 1949, has resigned to return to Philadelphia and devote full time to radio, television, and newspaper work. **Douglas Duke** has been named acting chairman of the Astronomy Department and is the planetarium's astronomical adviser, **W. D. Bulloch** is the producer, and **A. F. Jenzano** manager of the planetarium.

Four young scientists have been awarded fellowships for the study of trace elements at McCollum-Pratt Institute, Johns Hopkins. The E. J. Johnson Post-Doctoral Fellowship was given to **D. J. D. Nicholas**, plant physiologist, of the Plant Nutrition In-

stitute, University of Bristol; the C. F. Kettering Post-Doctoral Fellowship to **Ronald Moss**, plant physiologist, Iowa State; McCollum-Pratt Post-Doctoral Fellowships to **Lazarus Astrachan**, physiological chemist, Yale, and **Leonard J. Zatman**, biochemist, Research Institute of Montreal General Hospital. Dr. Nicholas will study the effect of trace element deficiencies on the enzyme construction of plants; Dr. Moss will work on the general problem of amino acid metabolism under varying conditions of trace element deficiency; and Drs. Astrachan and Zatman will take part in McCollum-Pratt Institute's over-all study of the trace element phosphorus.

**Karl F. Oerlein** has joined the Weapons Defense Branch of the Armed Forces Special Weapons Project, Washington, D. C., as science education specialist. Dr. Oerlein was formerly on the staff and faculty of the Chemical Corps School, Radiological Defense Branch, Army Chemical Center.

**John Thomas Patterson**, director of zoological research at the University of Texas, received the Daniel Giraud Elliot gold medal awarded by the National Academy of Sciences at its 88th annual meeting. The Elliot Medal is given annually to the author of a paper on original research in zoology or paleontology judged to be most meritorious and worthy of honor. In presenting the recipient to the president of the Academy, Alexander Wetmore, chairman of the Elliot Fund Committee, cited Professor Patterson's outstanding contributions to genetics, particularly his papers on isolating mechanisms.

**Samuel J. Prigal**, assistant professor of medicine, New York Medical College, Flower-Fifth Avenue Hospital, has been invited to participate in the "Symposium on Aerosol Therapy," to be held in June under the auspices of Minerva and Italian Medical Societies, at Turin.

**Adolph H. Rosenthal** was recently elected vice president and director of research and development of Freed Radio Corporation, New York. Dr. Rosenthal, who joined Freed Radio in 1949, was formerly director of physics.

**Harold E. Thomas**, district geologist of the Salt Lake City office of the Ground Water Branch, Water Resources Division, USGS, recently returned to Washington after a year's leave of absence to perform a specialized ground-water study for the Conservation Foundation in New York City, under the direction of Fairfield Osborn. He will maintain a liaison between the district engineers and geologists of the Ground Water offices in Arizona, Colorado, Nevada, and New Mexico.

**George E. Ziegler**, director of research at Midwest Research Institute, Kansas City, has accepted the post of research director of the Zonolite Company, Chicago. Dr. Ziegler went to Midwest Research Institute as executive scientist when it was established in 1945. He was appointed director in December 1948.

## Colleges and Universities

**Harvard and MIT** will begin a joint program next September aimed at attracting more young people of outstanding ability into the teaching profession. The undergraduate phase will be carried out largely at MIT; thereafter students will take courses at both institutions. During the fifth year they will teach part-time at local high schools under the direction of Harvard's School of Education. The course will lead to a B.S. in general science at MIT and an M.A. in teaching at Harvard.

**MIT** will offer among its special courses this summer one on Automatic Stabilization and Control of Helicopters, July 9-18; on Aerodynamics—Compressible Fluids, Airplane Stability and Control, Aeroelasticity and Structural Dynamics, June 11-20; and Principles of Instrumentation and Control, July 23-August 31. The Department of Mechanical Engineering will offer a two-week course in Photo-elasticity, under the direction of William M. Murray, August 20-31. Frederick G. Fassett, Jr., is director of the Summer Session.

The summer work in tissue culture techniques at the **Mount Desert Island Biological Laboratories**, Salisbury Cove, Maine, will again be under the supervision of Philip R. White. Interested investigators and students should write to Dr. White at Jackson Memorial Laboratory, Bar Harbor, Maine.

**Texas A & M** will send a field party under the direction of Leonard W. Wing and Chester Rowell, in cooperation with the Texas Game, Fish and Oyster Commission and the Mexican Department of Forestal, Casa, y Percha, into Tamaulipas, Mexico, for a study of the white-winged dove. They will meet a group of biologists from the Texas Game Commission headed by Pierce Uzzell. Many of the doves present in south Texas during the fall are believed to come up from Mexico, and the project will carry on large-scale banding as part of the study program.

## Grants and Fellowships

The **Commonwealth Fund** has given \$150,000 to the Health Insurance Plan of Greater New York for a study of family experience in medical care. The appropriation is, however, conditional upon receipt of a like sum from another source.

**William Bayard Cutting Traveling Fellowships** have been awarded by Columbia University to five graduate students for research along the Amazon in Brazil, and in Rome, Tokyo, England, and Germany. Most of them are continuation fellowships.

**Eastman Kodak Company** fellowships for advanced studies in chemistry, have been put at the disposal of the following colleges and universities: Rochester, Chicago, Cornell, Illinois, Iowa State, Nebraska, California (Los Angeles), Harvard, Penn State, and Texas; for chemical engineering, MIT and the Uni-

versity of Michigan; and for physics, Caltech, Ohio State, and Princeton. Selection of the student is made by each university.

Caltech has initiated a new form of scholarship for summer graduate students in the Division of Biology—to be known as **McCallum Summer Scholarships**. The McCallum Foundation, of New Brunswick, N. J., established by Mr. and Mrs. Arthur McCallum, provided the funds.

**Bakelite Division of Union Carbide and Carbon Corporation** has established a one-year fellowship in polymer chemistry at Wayne University. Holder of the fellowship will work under the direction of William J. Bailey, of the Department of Chemistry.

**Bausch & Lomb Science Scholarships** at the University of Rochester have been received by Karl Berkelman, Lewiston, Maine; Dorothy Ann Botkin, of Croton-on-Hudson, N. Y.; and Alvin J. Clark, of Westfield, N. J. Six others among the 20 finalists, who were chosen from nearly 900 applicants in the U. S., Puerto Rico, and Alaska, won scholarships of comparable value at the university.

**Carnegie Summer Fellowships** for interdisciplinary study in the social and biological sciences have been awarded to A. J. Brodbeck, of the Department of Psychology of Boston University, and Joseph J. Antonitis, of the University of Maine. With money provided by the Carnegie Corporation of New York the Roscoe B. Jackson Memorial Laboratory will provide similar fellowships for summer study at Bar Harbor during the next four seasons.

The **National Tuberculosis Association** has granted research fellowships to Glen R. Gale, Duke University; A. M. Dannenburg, Jr., Henry Phipps Institute; Helen Wago, New York University; Oscar J. Balchum, National Jewish Hospital, Denver; James G. Hirsch, Rockefeller Institute for Medical Research; Quentin N. Myrvik, University of Washington; Ralph G. Spears, Northwestern; and Loren Winterscheid, University of Pennsylvania.

**Research Corporation** has given a Frederick Gardner Cottrell grant to Brandeis University for support of the work of Saul G. Cohen on fundamental reactions of free radicals in solution. Dr. Cohen occupies the Rita H. Aronstam chair in chemistry and has recently been named a member of the Advisory Panel to the Weizmann Institute of Science, Rehoveth.

The **Hahnemann Medical College** has received a **USPHS** grant to the Department of Bacteriology for studies on penicillin-resistant staphylococci, and the Department of Medicine has received a grant from **E. R. Squibb & Sons** for the study of pain-relieving drugs in arthritis, from **Commercial Solvents Corporation** for a study of glucuronic acid in arthritis, and from **Wyeth Inc.** for clinical research.

The **Office of Naval Research** has awarded a con-

tract to the Kirksville College of Osteopathy and Surgery for research on chronic segmental facilitation and the exchange between the somatic and autonomic nervous systems, under the direction of I. M. Korr, head of the Department of Physiology. This grant is the third from federal agencies to the department, two grants of \$10,000 each having been made by the Public Health Service.

**Consolidated Natural Gas System Educational Foundation** has given \$10,000 to Lehigh University to augment the J. D. Berg scholarship fund, established last year by Mrs. Berg in honor of her late husband, former chairman of the Dravo Corporation and corporate trustee of the university. The fund provides for an annual engineering scholarship at Lehigh.

The **Fund for Adult Education** has named Iowa State College as the recipient of a series of grants totaling \$260,000 for the development of experimental television programs and for the purchase of television equipment. The grants have been made specifically for activities of WOI-TV, but they will also affect a large number of other departments of the college. It is expected that considerable attention will be given to the exploration of the use of films and the development of forum- and discussion-type programs in education.

The **Guggenheim Foundation** has appointed seven new Jet Propulsion Fellows, selected on the basis of their technical ability, interest in rockets and jet propulsion, and demonstrated leadership qualities. They will work at Princeton and Caltech.

The **John Hay Whitney Foundation** has awarded "Opportunity Fellowships" ranging from \$1,000 to \$3,000 to 53 persons for the continuation of study or for creative work in 22 fields. They were given to American citizens from Guam, Puerto Rico, Hawaii, the Canal Zone, the District of Columbia, and 16 states, who, "because of arbitrary barriers such as race, cultural background or region of residence, have not had the fullest opportunity to develop their abilities."

The **Washington (D.C.) Academy of Sciences** invites nominations of younger scientists (under 40 years of age as of December 31, 1951) to be considered for the annual bestowal of its scrolls "awarded for noteworthy discovery, accomplishment, or publication in the physical, biological, and engineering sciences, and in the teaching of science." Eligibility for each of the four awards is limited to persons who are either members of the Washington Academy (resident or nonresident) or resident members of a society affiliated with the academy. Most of the scientific, engineering, and technical societies in the District of Columbia are affiliated. In proposing a candidate, it will be helpful to include a brief biographical sketch, an account of his (or her) principal contribution to science, and a list of the candidate's publications. Nominations should be submitted to the general chairman of the Committees on Awards, George P. Walton,

6318 33rd St., Washington 15, D. C., by the end of November 1951.

## In the Laboratories

As part of its long-range expansion and diversification program, **Schenley Industries** has organized a Facilities Division, of which Brig. Gen. E. F. Jeffe will be in charge.

The **Transandino Company**, Palo Alto, Calif. (R. C. Gill Laboratory for Curare Research), has obtained the services of Frank Sevigne as technical director of its laboratory and production activities. Mr. Sevigne was until recently laboratory director of Collett-Week-Niebecker, of South San Francisco. Transandino's former technical director, George I. Dundas, is now vice president of Transandino, and also of Gill, Dundas, and Company, a newly formed organization devoted to consultative and distributive service for anesthesiology and allied fields.

MIT's new Hydrodynamics Laboratory and Ship Model Towing Tank will be dedicated on June 4 at the opening session of a three-day symposium on "Hydrodynamics in Modern Technology." Among the speakers will be Lewis A. Pick, H. E. Saunders, Karl E. Schoenherr, Forrest Nagler, and Wesley R. Nelson. Karl T. Compton, chairman of the MIT Corporation, will speak on "Engineering Manpower Trends."

**Massachusetts General Hospital** has recently dedicated its new \$2,750,000 Research Building, funds for which were supplied by the National Cancer Institute, National Heart Institute, and by public contributions. As part of the dedication program, Sir Charles R. Harington, director of the National Institute for Medical Research, London, delivered the Edward Pierson Richardson Lecture on "Twenty-five Years of Research on the Biochemistry of the Thyroid Gland."

**Eli Lilly and Company** plans to start immediate construction of a new antibiotics manufacturing plant on recently acquired land near Lafayette, Ind. The new plant, to be located on a 370-acre plot on the banks of the Wabash, will be named the Tippecanoe Laboratories.

**Gulf Oil** is building a \$1,100,000 chemical research laboratory in Harmarville, near Pittsburgh, Pa. Three sections of the Chemistry Division—product development, analysis, and organic synthesis—will occupy the new facilities, making available additional space for the Physics, Materials and Production Chemistry, and Engineering divisions.

**Armour Research Foundation** has sent five U. S. scientists to the Monte Verde plantation in Costa Rica to start field work on Manila hemp production techniques, on modifying and improving machinery, and on new ways to utilize waste products. The project is sponsored by the RFC and will be directed by Norton F. Gurley, assisted by Walter J. Armstrong, Nevin M. Hochstetler, Ralph E. Peek, and Landry R. Miller.

Hampered by inability to obtain satisfactory supplies of laboratory animals for an extensive research program in nutrition, a group from the **Emory W. Thurston Laboratories** has launched the Pacific Animal Farms on property recently purchased in Gardena, Calif. The principals are H. B. McWilliams, B. H. Ershoff, and Mr. Thurston. In addition to their own program of nutritional studies, the Thurston Laboratories are engaged in extensive research for the Committee on Food Research, U. S. Army Quartermaster Corps, Food and Containers Institute, the Atomic Energy Commission, and the U. S. Navy.

Formation of a Canadian subsidiary and financial interest in a major new chemical plant at Cornwall, Ontario, have been announced by **Chas. Pfizer & Co., Inc.** Donald Hilton, director of foreign sales for Pfizer, is president of Pfizer Canada, Ltd. The firm will handle Canadian sales of terramycin, and other Pfizer-labeled products. The new plant at Cornwall will be erected by **Kemball Bishop**, a British-controlled Canadian firm in which Pfizer has a substantial investment.

The **Raytheon Manufacturing Company**, of Waltham, Mass., has transferred its New York and International Sales Offices to 19 Rector St., New York 6.

J. M. Crismon and George A. Fiegen, **Stanford Medical School** physiologists, will head a project at the University, aimed at discovery of potential substitutes for blood plasma, under a contract from ONR.

## Recent Deaths

**Emmett P. Barnhart** (63), animal industry expert, Providence, R. I., May 8; **Robert G. Baxter** (70), mechanical engineer, Philadelphia, May 5; **John L. Blakeley** (51), consulting chemist, New York, May 7; **Alfred F. Bliss** (36), physiologist, East Quogue, L. I., N. Y., May 16; **Gilbert Ames Bliss** (75), mathematician, Harvey, Ill., May 8; **James R. Bloss** (69), obstetrician, Huntington, W. Va., Apr. 21; **Adolph Bonner** (77), gynecologist, Miami Beach, Fla., Apr. 19; **John Hood Branson** (75), high school science department head, Bronxville, N. Y., May 6; **Earle Nelson Burrows** (68), civil engineer, Ithaca, N. Y., May 6; **Leon Campbell** (70), astronomer, Cambridge, Mass., May 10; **Hulsey Cason** (58), psychologist, West Palm Beach, Fla., Apr. 30; **John R. Cautley** (67), aviation engineer, Martinsville, Ind., Apr. 24; **Sumner H. Compton** (50), mining engineer, of Seattle, Wash., Caracas, Venezuela, May 9; **Bowman C. Crowell** (72), pathologist, Clermont, Fla., Apr. 26; **Roy W. Crum** (66), highway engineer, Washington, D. C., May 13.

**Orville Estes Day** (47), placement officer for the blind, Harrisburg, Pa., May 16; **J. Lee Deen** (54), forester, Fort Collins, Colo., Apr. 24; **William Meddaugh Dunning** (82), eye, ear, nose, and throat specialist, Bronx, N. Y., May 11; **Pedro L. Farinas** (58), radiologist, Havana, Cuba, Apr. 26; **Howard P. Fischbach** (66), physician and surgeon, of Cincinnati, Flathead Lake, Mont., Apr. 22; **Russell T. Fisher** (59), authority on cotton, Quincy, Mass., Apr. 24; **Alice V.**

**Flather** (86), chemist, Nashua, N. H., May 13; **Earl W. Fuller** (65), psychiatrist, Morris Plains, N. J., May 16; **Edward B. Gresser** (53), eye specialist, New York, Apr. 28; **M. Moiseovich Gubergrits**, Russian physiologist, Kiev, May 11.

**Sir Basil Hall** (75), physician, Surrey, Eng., May 16; **Stafford L. Hamm** (69), exploration mining engineer, New York, May 11; **Henry H. Hazen** (71), dermatologist, Washington, D. C., May 1; **Robert H. Herbst** (73), urologist, Highland Park, Ill., May 15; **Jesse M. Howell** (66), G-E works manager, Schenectady, N. Y., May 6; **George B. Ireland** (75), Taylor Instrument Companies, Rochester, N. Y., May 17; **Frederick L. Jack** (90), aural surgeon, Boston, May 3; **James Coyle Kennedy** (57), civil engineer, New York, Apr. 24; **Horace W. King** (77), hydraulic engineer, Pasadena, Calif., Apr. 22; **Robert N. King**, market research expert, Westport, Conn., May 12; **Stanley King** (67), president emeritus, Amherst, Martha's Vineyard, Mass., Apr. 28; **William E. Kistler** (66), physician, Swarthmore, Pa., Apr. 24; **G. A. R. Kon** (59), chemist, Manchester, Eng., Mar. 15.

**H. O. Lathrop** (63), geographer, Normal, Ill., May 11; **Henry J. Lawton** (37), consulting engineer, Philadelphia, May 4; **William R. Lyon** (56), Bell Telephone Laboratories engineer, East Orange, N. J., Apr. 22; **Margaret T. Madeira** (61), welfare worker, Haverford, Pa., May 3; **Isaac Mark, Jr.** (50), consulting engineer, Rockville Centre, L. I., N. Y., May 15; **Adolph F. Marquier**, pharmacologist and chemist, South Orange, N. J., May 14; **Herbert Adolphus Miller** (75), sociologist, Asheville, N. C., May 6; **Earle G. Morgan**, mining engineer, Lansdowne, Pa., Apr. 20; **George Mueller** (83), surgeon, Chicago, May 7; **Takashi Nagai** (43), x-ray research expert, Tokyo, May 1; **Axel W. Persson** (63), archaeologist, Upsala, Sweden, May 8.

**Frederick Raiser** (42), electrical engineer, New York, May 11; **Nicholas S. Ranso** (55), surgeon, Long Branch, N. J., Apr. 25; **William H. Rasche** (76), descriptive geometrist, Blacksburg, Va., May 9; **Walter H. Scherer**, dentist, Houston, May 12; **Bernard F. Schreiner** (64), cancer specialist, Buffalo, N. Y., May 8; **David C. Scott** (66), authority on textiles and rubber, Providence, R. I., May 12; **James A. Seaman** (61), urologist, Springfield, Mass., Apr. 21; **Abraham Shorr** (60), eye, ear, nose, and throat specialist, New York, May 14; **James Dutton Smith** (76), physician, Huntington, L. I., N. Y., Apr. 21; **Richard E. Sperry** (65), civil engineer, Princeton, N. J., May 10; **William L. Sullivan** (54), chemical and metallurgical engineer, Bloomfield, N. J., Apr. 23; **Humphrey Sumner** (57), historian, Oxford, Eng., Apr. 25; **H. C. Temple** (93), physician, Alliance, Ohio, May 8; **Charles G. Van Brunt** (81), analytical chemist, Schenectady, N. Y., May 2; **Elmo S. Watson** (59), journalist-educator, Denver, May 5; **Barzillia R. West** (76), dental surgeon, Philadelphia, May 16; **Susan Burr ridge Wilson** (55), Army nurse, Bennington, Vt., May 16; **Tadaoki Yamamoto** (69), professor emeritus, Waseda University, Tokyo, Apr. 21; **Michael G. Yatskevitch** (71), metallurgist, Cambridge, N. Y., May 9.