

retical and experimental efforts instigated by this old-new doctrine that has been adopted as the only basis for a "truly materialist, progressive physiology." In spite of unsophisticated theory, interesting developments sometimes emerge.

References

1. LONDON, I. D. *Science*, **114**, 227 (1951).
2. *Zhur. Vyssh. Nervn. Deiatel'*, **1**, 143 (1951).
3. *Ibid.*, 143.
4. *Ibid.*, 5.
5. PAVLOV, B. V. *Fiziol. Zhur. SSSR*, **37**, 385 (1951).
6. *Pravda*, (183), 2 (1951).
7. LONDON, I. D. *Science*, **114**, 227 (1951).
8. *Zhur. Vyssh. Nervn. Deiatel'*, **1**, 145 (1951).
9. *Fiziol. Zhur. SSSR*, **37**, 127 (1951).
10. *Pravda*, (144), 2 (1951).
11. *Zhur. Vyssh. Nervn. Deiatel'*, **1**, 468 (1951).
12. *Ibid.*, 307.
13. *Fiziol. Zhur. SSSR*, **37**, 259 (1951).
14. *Ibid.*, 257.
15. *Zhur. Vyssh. Nervn. Deiatel'*, **1**, 308 (1951).
16. VORONIN, L. G. *Uchitel'sk. Gaz.*, (60), 2 (1951).
17. LONDON, I. D. *Science*, **114**, 227 (1951).
18. *Pravda*, (163), 3 (1951).
19. *Fiziol. Zhur. SSSR*, **37**, 125 (1951).
20. *Zhur. Vyssh. Nervn. Deiatel'*, **1**, 302 (1951).
21. *Fiziol. Zhur. SSSR*, **37**, 514 (1951).
22. *Zhur. Vyssh. Nervn. Deiatel'*, **1**, 645 (1951).
23. USIEVICH, M. A. *Medit'sin. Rabotn.*, (50), 2 (1951).
24. *Scientific Session on the Physiological Teachings of Academician I. P. Pavlov*. Moscow: Foreign Lang. Pub. House (1951).
25. *Fiziol. Zhur. SSSR*, **38**, 124 (1952).
26. *Medit'sin. Rabotn.*, (27), 2 (1952).
27. BYKOV, K. M. *Ibid.*, (29), 2 (1952).
28. IVANOV-SMOLENSKII, A. G., et al. *Zhur. Vyssh. Nervn. Deiatel'*, **1**, 789 (1951).
29. VOLOKHOV, A. A. *Vestnik Akad. Nauk SSSR*, **22** (1), 55 (1952).
30. IVANOV-SMOLENSKII, A. G. *Zhur. Vyssh. Nervn. Deiatel'*, **1**, 462 (1951).
31. REZNICHENKO, P. N. *Ibid.*, 290.
32. SINKEVICH, Z. L., and STREL'CHUK, I. V. *Ibid.*, 632.
33. USIEVICH, M. A. *Ibid.*, 623.
34. KUPALOV, P. S. *Fiziol. Zhur. SSSR*, **37**, 397 (1951).
35. LOBASHEV, M. E. *Ibid.*, 368.
36. PAVLOV, B. V. *Ibid.*, **38**, 13 (1952).
37. VATSURO, E. G. *Ibid.*, **37**, 639 (1951).
38. VATSURO, E. G., and SHIBANOV, A. A. *Ibid.*, 528.
39. VORONIN, L. G. *Ibid.*, 261.

News and Notes

The Radiation Research Society

DURING the past fifty years the complexity of science has increased enormously and has led to greater specialization. This is reflected by the formation of numerous scientific societies and the establishment of subdivisions in the older societies, all of which, in the opinion of the respective members, serve a useful purpose. However, specialization carried too far may well have an adverse effect on the progress of science.

Although specialization cannot be avoided, its harmful consequences may be mitigated by taking advantage of another trend in modern science. The solution of many important problems requires the collective effort of specialists in different fields. Therefore, if a *problem*, instead of a branch of science, is made the common point of interest, it is possible to bring together specialists from different disciplines. Contacts among such specialists would then broaden their views and would be beneficial to all. The study of the biological effects of radiation is an ideal problem of this type, in that it involves the collaboration of physicists, chemists, and biologists. This idea has led to the formation of the Radiation Research Society, which held its first business meeting in New York on April 15, 1952.

The new society is perhaps unique in that it is expressly constituted to bring together scientists of widely different backgrounds in a highly specialized field—on a perfectly equal basis. To this end, its constitution stipulates that: "The Council shall consist of the Officers and 10 elected Councillors. The fields of physics, chemistry, biology and medicine shall be represented on the Council each by two Councillors, elected expressly for this purpose. The remaining two Councillors shall be elected to represent science in general."

The objects of the society are purposely quite broad: "(1) To promote original research in the natural sciences relating to radiation. (2) To facilitate integration of different disciplines in the study of radiation effects. (3) To promote the diffusion of knowledge in these fields."

The interest shown in the society augurs well for its success. Practically all those invited to become members joined, and the initial membership is over 250. The officers for the year 1952-53 are: Raymond E. Zirkle, president; Alexander Hollaender, vice president; Abraham Edelmann, secretary; Harvey Patt, treasurer.

G. FAILLA

Department of Radiology
Columbia University

Scientists in the News

Daniel I. Arnon, professor of plant physiology in the University of California at Berkeley, has been elected President of the American Society of Plant Physiologists.

Brewton Berry, professor of sociology at Ohio State University, has received the \$1000 Anisfield-Wolf Award for his book *Race Relations*, published by Houghton Mifflin Company. The volume is the first textbook to receive one of the awards, which were established 18 years ago by Edith A. Wolf, of Cleveland, in memory of her father and her husband. The awards—two each year—go to the best books dealing with problems of racial and nationality group relations. Members of the Awards Committee were Ralph Linton, of Yale University, Henry Seidel Canby and Amy Loveman, of the editorial staff of *The Saturday*

Review, and Henry Pratt Fairchild, of New York University. Dr. Berry has been an Ohio State faculty member since 1946.

Wesley Bourne, until recently professor and chairman of the Department of Anaesthesia of McGill University, has accepted an offer from WHO to act as counselor in the setting up of a center in Paris, to provide training in anesthesia for graduates in medicine. The term of his engagement will be from November 1952 to the end of 1953.

In recognition of their outstanding contributions to engineering and science, honorary degrees were conferred on **Albert Caquot**, president of the International Standards Association and president of the French National Academy of Arts and Sciences, and **Edwin Herbert Land**, president of the Polaroid Company and of the American Academy of Arts and Sciences, by the Polytechnic Institute of Brooklyn. Dr. Caquot is professor at the Ecole des Ponts et Chaussées. Dr. Land is the inventor of the Polaroid camera.

A. Kennon Davis, instructor in physiology at the University of Tennessee Medical Units in Memphis, has joined the staff of the U. S. Naval Radiological Defense Laboratory in San Francisco, to do research on thermal burns that may be received from an atomic explosion.

Hans Frauenfelder, nuclear physicist at the Swiss Federal Institute of Technology in Zurich, will join the staff of the University of Illinois.

A *Festschrift* on the 70th birthday of **Richard B. Goldschmidt**, University of California, has been published by the *Portugaliae Acta Biologica*. It contains contributions from 30 authors, representing 11 countries.

Avram Goldstein has returned to Harvard Medical School as assistant professor of pharmacology, after a year at the Pharmacological Institute of the University of Bern.

Leon Gordon and **Ira G. Wool**, medical students at the University of Chicago, have been awarded the Harry Ginsburg memorial prize for 1952. Awarded to medical students in the department of physiology, the prize is a tribute to the late Harry Ginsburg, who died while a student at the university. Dr. Gordon, who received his M.D. with honors in physiology, will interne at Philadelphia General Hospital. Mr. Wool is a junior in medical school.

Eleanor Hudson Grady, dean of faculty at Hunter College, has announced her retirement effective next February. Dr. Grady, who has been associated with the college since 1915, will be on a leave of absence during the fall semester. Appointed dean of faculty in 1941, Dr. Grady served as acting president of the college during 1950-51 while **George Shuster** served as Land Commissioner in Bavaria. Last year she was voted the "Woman of the Year in Education" by

the New York Chapter of the American Association of University Women.

G. Halsey Hunt has been appointed an assistant surgeon general of the Public Health Service and will serve as associate chief of the Bureau of Medical Services. Dr. Hunt was formerly chief of the Division of Hospitals. The Bureau of Medical Services administers most of the PHS direct medical care functions, managing 22 hospitals located in major seaport cities and over 100 outpatient facilities. The bureau also includes the Division of Foreign Quarantine, divisions concerned with medical, hospital, dental, and nursing resources, and is responsible for the administration of the Hospital Survey and Construction Act. Dr. Hunt joined the Bureau of Medical Services as assistant chief of the Division of Hospitals in 1947, becoming chief in 1949, succeeding **Otis L. Anderson**, now chief of the Bureau of State Services.

Gerald Klatskin, associate professor of medicine at Yale, has received the first Francis Gilman Blake Award, established by the Yale chapter of Nu Sigma Nu, a medical fraternity. The award is named after the late Dr. Blake, former dean of the Yale School of Medicine, who died last February. In establishing the award, the students announced that the purpose was to encourage better teaching of the medical sciences by recalling the example set by Dr. Blake. The recipient will be chosen annually by a vote of the entire graduating medical class, and a permanent plaque with the names of the Blake Award winners will be hung in the school.

The American Association of the History of Medicine has awarded the William Osler medal for 1952 to **Herbert S. Klickstein**, a fourth-year student at the University of Pennsylvania School of Medicine, in recognition of his essay on "A Short History of the Professorship of Chemistry of the University of Pennsylvania School of Medicine."

Frank V. Kosikowsky, of Cornell University's Dairy Department, has accepted an FAO invitation to participate in a symposia and refresher course on cheese manufacturing to be held in Poligny, France, Sept. 8-13. The meeting will be held in cooperation with the International Dairy Federation.

John W. Marden, Westinghouse research scientist, has received from the Department of the Army its highest civilian award in recognition of his research and development of a new alloy for barrel liners for automatic weapons. Dr. Marden has been working on the development of this new metal since 1942.

N. T. Mattox has resigned his position at the University of Puerto Rico to accept an appointment at the University of Southern California, where he will serve as half-time research associate in the Allan Hancock Foundation for marine studies and half-time as associate professor in zoology.

F. Lloyd Mussells has been appointed executive

director of the Committee on Medical Sciences, Research and Development Board, Department of Defense. Dr. Mussells, who has served as deputy executive director since July 1951, succeeds **Thomas B. Spencer**, who will join the staff of the Cornell Medical Center in New York City as director of the Out-Patient Department of the New York Hospital and as Instructor in Medicine at the College of Medicine, Cornell University. Dr. Mussells is on a two-year leave of absence from Strong Memorial Hospital, University of Rochester, where he was assistant director from 1949 to 1951.

S. M. Naudé, vice president of the South African Council for Scientific and Industrial Research, is visiting the U. S. and Canada during June and July to renew his contacts in North America with directors of a number of research organizations, after a similar tour of the United Kingdom and the continent. Dr. Naudé was director of the South African National Physical Laboratory and a former professor of Physics at the University of Stellenbosch.

W. Albert Noyes, Jr., chairman of the University of Rochester Chemistry Department and former president of the American Chemical Society, has been appointed dean of the University's Graduate School. **Lewis W. Beck**, chairman of the Philosophy Department, has been named to the new position of associate dean. Both men will continue as chairmen of their departments. Dr. Noyes succeeds **Frank P. Smith** as graduate dean. Dr. Smith has resigned to become director of the Bureau of Business Research and professor of business administration at the University of Michigan. Dr. Noyes is senior scientific adviser to Anthony C. McAuliffe, chief of the U. S. Chemical Corps, and is also chairman of the NRC Division of Chemistry and Chemical Technology, a member of the Naval Research Advisory Committee, and consultant to the Atomic Energy Commission.

John Frederick Reinhard has been appointed director of pharmacologic research in the Warner Institute for Therapeutic Research. Dr. Reinhard formerly was director of the Pharmacology Department, Nepera Chemical Co. He has served as a member of the staff of New York University College of Medicine and Dentistry, as well as pharmacologist at the Wellcome Research Laboratories.

R. H. Simpson, meteorologist in charge of the Honolulu weather bureau and secretary of the Standing Committee on Pacific Meteorology, left Honolulu at the end of May to take a position in the central office of the Weather Bureau in Washington, D. C. Mr. Simpson's work will be concerned with the planning and development of the bureau's scientific and research activities.

Esmond E. Snell, University of Texas biochemist, is in Europe to attend the second International Congress of Biochemistry, before which he will discuss his research on the ways in which aureomycin increases use of vitamin B₆ in the body, the part the

vitamin plays in body functions, its distribution in nature, and its relation to the growth of lactic acid bacteria.

Henry Terrey has been appointed to the University chair of chemistry at University College, London.

John L. Wood, professor of chemistry, University of Tennessee Medical Units, has been appointed head of the Department of Biochemistry. **T. P. Nash, Jr.**, dean of the School of Biological Sciences and chief of the Division of Chemistry, will continue as dean and chief of the division. Dr. Wood will assume major responsibility for the instruction of undergraduate and graduate students in biochemistry.

Education

Le Bonheur Children's Hospital, the only general practice hospital exclusively for children in the Mid-South, opened June 25 in Memphis. J. Caffey, A. Christie, H. W. K. Dargeon, J. H. Hess, L. D. Baker, and members of the staff of the University of Tennessee College of Medicine participated in a two-day seminar in celebration of the occasion. The \$2,000,000 hospital was built with funds provided by the federal government under the Hill-Burton Act, the state of Tennessee, and money raised by Le Bonheur, Memphis women's philanthropic organization.

Brookhaven National Laboratory will be host to 63 visiting scientists and 91 students this summer, who will participate in the laboratory's research projects, related to the work they conduct, or as research assistants.

The following faculty members of the **University of Chicago** will retire with emeritus status this year: Louis L. Thurstone, Charles F. Grey distinguished service professor of psychology; Pierce Butler, professor of library science; Hazel Kyrk, professor of home economics and economics; Ernest P. Lane, professor of mathematics; Grace E. Storm, assistant professor of education; and Louise W. Putzke and Harris R. Vail, teachers in the laboratory school.

Columbia University has established a Council on Medical Affairs, of which John G. Jackson has been named chairman. The council will be limited to 30 members and is intended to be broadly representative of business and professional groups throughout the nation. It will advise and assist the university in the discharge of its public responsibilities and in the development of its medical program. The **Division of Cooperative Research**, important link between the new Engineering Center and industry, has been put in charge of John G. Dean, of International Nickel Co.

Ernest Whitworth has been appointed director of the **Commission on Accreditation of Service Experiences** by the American Council on Education. Chief function of the commission is to evaluate, in educational terms, training given by the armed forces and to recommend to civilian educational institutions the

amount and type of academic credit for each training program. Mr. Whitworth, associate registrar and director of the Office of Machine Records at Cornell, succeeds Charles W. McLane who, at the termination of a year's leave of absence, has returned to the University of Missouri.

A Committee on Institutional Research Policy has been appointed by the American Council on Education, to study the problems arising from the impact on colleges and universities of the expanding research programs sponsored by government agencies and by industry. The nine members of the committee, of which Virgil Hancher, of Iowa State, is chairman are: J. R. Killian, Jr., Franklin D. Murphy, T. P. Wright, J. C. Morris, Larry R. Lunden, James H. Corley, Robert F. Bacher, and James B. Macelwane.

Duke Hospital has opened a new speech service for harelip and cleft palate children of North Carolina. Under the direction of Murray M. Halfond, six children are attending a six-week summer session, arranged by the Social Service Department in co-operation with state agencies. At the end of the course, the children will have learned enough to carry on further work at home and will return to the hospital for periodic checkups.

A Graduate Institute in Silicate Chemistry and Related Sciences has been established under the sponsorship of the University of Toledo, Libbey-Owens-Ford Glass Co., Owens-Illinois Glass Co., and Owens-Corning Fiberglas Corp. Initial financing will be by grants totaling \$75,000 from the industry and \$50,000 from the university over a five-year period. Wilhelm Eitel, of the Office of Naval Research, has been appointed professor of silicate chemistry and director of the institute.

Illinois Institute of Technology will retire four faculty members at the end of the 1951-52 academic year. They are David P. Boder (psychology), Lester R. Ford (mathematics), Charles A. Nash (electrical engineering), and Roe L. Stevens (bridge and structural engineering).

The **University of Tennessee** has appointed Anton de S. Brasunas, of Oak Ridge National Laboratory, to the staff of the Department of Chemical Engineering, where he will continue his studies on high temperature metallurgy. Robert Kieber, who has been doing research at the Camp Detrick laboratories of the Army, will take over the direction of the Tennessee program of microbiology as related to chemical engineering. He will succeed Arthur L. Pollard, who will retire in September.

Women's Medical College of Pennsylvania has appointed Nicholas B. Dryer, of the University of Vermont, professor of pharmacology and toxicology; Carmen Thomas, director of oncology; Jean Crump, professor of pediatrics and chairman of the department; Katharine R. Boucot, professor of preventive medicine; Emilie S. Loeffler, teaching fellow in the

Department of Medicine; and John B. Levan, clinical assistant professor in medicine. The following have been elected to emeritus status: Emily Bacon, Eunice Stockwell, and Sarah I. Morris.

Grants and Fellowships

American Heart Association awards for 1952-53 amount to more than \$350,000 and will support investigations at institutions in 20 states, the District of Columbia, Montreal, and Beirut. The Marine Biological Laboratory at Woods Hole received \$10,000 for a study of the mechanism of muscular contraction, to be conducted by Albert Szent-Gyorgyi, and the University of Pennsylvania School of Medicine, \$10,500 for work on cholesterol and the action of hormones in relation to this and other fatty substances.

Carnegie Corporation of New York has awarded \$150,000 to Case Institute of Technology to aid in the development of an experimental program for liberalizing engineering education. Begun three years ago, the program seeks to prepare the student for the responsibilities of American citizenship, increase his knowledge of Western culture, develop his reading skills, and teach him to write and speak proficiently.

Central Scientific Company has awarded its annual Cenco scholarships for 1952-53 to Albert J. Rothman, Department of Chemistry, University of California, Berkeley, and to William F. Miller, Department of Physics, Purdue.

Continental Can Company, Chicago, has established a full tuition scholarship in food engineering at Illinois Institute of Technology for 1952-53. In addition, the company has made funds available for special food engineering equipment needed to train students in the field.

The **Field Foundation** has allocated \$26,000, for two years, to be used in the study of children with psychosomatic problems. A 12-bed unit has been opened by the University of Illinois at the Illinois Neuropsychiatric Institute. Margaret Garard and Julius B. Richmond will direct the studies, and the ward will be staffed by personnel from various departments, to provide an interdisciplinary approach to the work.

The **Matchette Foundation Prize in Aesthetics** (\$500) will be given for the best article in aesthetics or the philosophy of art by an American author during the academic year 1952-53. Included in eligible material will be all theoretical discussions of the arts and related modes of experience and behavior from a philosophical or scientific point of view, including those of psychology and sociology. Historical and critical studies are eligible if they involve questions of general theory. For full information write to the Franklin J. Matchette Foundation, 20 E. 66th St., New York City.

The **Damon Runyon Memorial Fund** has made can-

cer research grants amounting to \$418,225 to 22 U. S. institutions and to the Radium-Hemmet Institute, Stockholm. The latter received \$5,000 to finance publication of a study on the results of radiotherapy in carcinoma. The Runyon Fund has distributed a total of \$5,407,540 in grants and fellowships in this country and in 13 foreign countries.

In the Laboratories

Beckman Instruments, Inc., has recently moved its Midwest offices to new and larger quarters at 7145 W. Belmont Ave., Chicago. The Chicago branch is under the direction of George Kincaid.

Chemstrand Corporation has recently named David W. Chaney senior group leader in charge of the research section. He was transferred from the plant at Marcus Hook, Pa., where he supervised research on Acrilan. The following have been appointed to the Research and Development Department in Decatur, Ala.: Albert H. Bruner, Leon Hecht, Jr., Edwin L. Lard, Madison L. Marshall, Andrew I. Smith, Edgar D. Smith, and Robert L. Sublett.

Among the research scientists who will work with the regular staff of the **Roscoe B. Jackson Memorial Laboratory** this summer are Hans Gruneberg, of University College, and James M. Tanner, Sherrington School of Physiology, St. Thomas's Hospital, London. Eighteen additional specialists from all parts of the U. S. will also participate in the laboratory's cancer research program this summer.

National Institutes of Health has announced the following appointments: Joseph J. Bunim, of New York University College of Medicine, as chief of clinical studies on rheumatic diseases, and Norman B. McCullough as chief of clinical research at the Microbiological Institute. Both men will conduct their investigations at the new Clinical Center, which will begin studies with patients next spring.

The **University of Nevada** will study the processing of uranium ores and concentrates, on a laboratory and unit process scale, under a \$60,000 contract with the U. S. Atomic Energy Commission.

Olin Industries, Inc., has organized a Forest Products Division with headquarters in Shreveport, La. The new division will be responsible for the operation of properties in Arkansas, Louisiana, and Texas, recently acquired through merger with Frost Lumber Industries, Incorporated. Major operating personnel are John W. Hanes, F. T. Whited, and Robert H. Evans.

The **Rockefeller Institute for Medical Research** has announced the following promotions: Henry G. Kunkel, Stanford Moore, and William H. Stein, from associate member to member; Vincent G. Allfrey, Werner Hausmann, and Christophe H. W. Hirs, from assistant to associate. New appointments include Richard E. Shope as member; Edward H. Ahrens, Jr.,

Hsiang-Tung Chang, and Carlton C. Hunt, associates; and 12 assistants. Peter K. Olitsky has been made a member emeritus.

Meetings and Elections

The **American Academy of Dental Medicine** installed Harold R. Gelhaar as president for 1952-53. Also elected at the annual meeting in Montreal were Alvin H. Berman, president-elect; William Greenhut, secretary (re-elected); and George C. Stewart, treasurer. The academy admitted two new sections, Philadelphia and Baltimore.

The **American Electroencephalographic Society** has elected Robert B. Aird president, John A. Abbott secretary, and Charles E. Henry treasurer. Mary A. B. Brazier is president-elect.

At the annual meeting of the **American Institute of Electrical Engineers**, Donald A. Quarles was elected president, and William S. Hill, M. D. Hooven, W. L. Cassell, C. Myron Lytle, and Thomas Ingledow were elected vice presidents. N. S. Hibshman was elected treasurer, and Andrew C. Muir, N. C. Pearcey, and C. S. Purnell were elected directors.

The Pacific Section of the **American Society of Limnology and Oceanography** held its annual meeting at Oregon State College in June, electing the following officers: president, C. A. Barnes; vice president, W. M. Cameron; secretary-treasurer (two years), G. L. Pickard; member-at-large (two years), E. C. LaFond. Twenty papers were presented in the various symposia that featured the two-day meeting.

The **American Society for Testing Materials** elected Harold Lee Maxwell president and Norman L. Mochel vice president at its annual meeting in New York. The following were elected to the Board of Directors for three-year terms: George R. Gohn, William H. Lutz, Howard K. Nason, Adolph O. Schaefer, and Myron A. Swayze. During the annual meeting the following awards for outstanding technical papers were given: the Charles B. Dudley Medal to Norman W. McLeod, the Richard L. Templin Award to Thomas J. Dolan, and the Sanford E. Thompson Award to H. F. Gonnerman and William Lerch.

The **Association of Research Directors** has elected the following officers: past president, W. Glen Bywater; president, Emil Ott; vice president, Allan R. A. Beeber; secretary-treasurer, David X. Klein. C. R. Scholz, William H. Lycan, and Delbert F. Jurgensen were elected councillors.

The following have been elected to the Board of Trustees of the **Committee for Economic Development**, a nonprofit and nonpolitical organization of businessmen and educators devoted to impartial study of national economic problems: James L. Allen, William Balderston, Charles R. Cox, Gordon Gray, George H. Love, and Stanley Marcus.

Miscellaneous

Among recent publications issued by the **Department of Scientific & Industrial Research** and available from H. M. Stationery Office, London, or British Information Services, 30 Rockefeller Plaza, New York City 20, is a volume on *Servomechanisms*, which contains 17 reports dealing with theory, design, and operation resulting from research carried out under the direction of the Ministry of Supply. *Reports of the Road Research Board and the Forest Products Research Board* summarize the investigations conducted by these agencies in DSIR during 1950.

Robert J. Hoyle, Jr., mechanical engineer and forester of Auburn, N. Y., has joined the research staff of Timber Engineering Company, affiliate of National Lumber Manufacturers Association.

The **University of Missouri Library** will furnish, on request, microfilms of the book *Die histochemischen und physiologischen Arbeiten von Friedrich Miescher*, at \$3.50. The book was compiled by Miescher's friends after his death and was published at Leipzig in 1897 by F. C. W. Fogel. It is understood that there are only a few copies available.

Rare chemicals wanted by the Biochemical Products Corp., 305 Broadway, New York City 7, are dimethylene dibromide and dimethylene dichloride.

Recent Deaths

Robert W. Andrews (82), physician and surgeon, Poughkeepsie, N. Y., May 28; **Frank Z. Atran** (67), textile manufacturer and philanthropist, New York, June 11; **William C. Ballard, Jr.** (63), electrical engineer, Ithaca, N. Y., June 11; **S. Eugene Barrera** (51), psychiatrist, Schenectady, N. Y., May 25; **S. Potter Bartley** (62), surgeon, New York, June 10; **Giuseppe Belluzzo** (76), economist and authority on projectiles, Rome, May 22; **Walter W. Birge** (74), of New York, pioneer in the development of rayon, Boston, June 13; **Valeria K. L. Bonham** (—), philanthropist, Riverside, Conn., May 20; **J. Clifton Buck** (85), chemist, Atlantic City, June 13; **Elmer H. Carleton** (83), ophthalmologist, Hanover, N. H., June 1; **David Dasso** (61), engineer, Lima, Peru, May 18; **John Dewey** (92), philosopher, New York, June 1; **Quintin Todd Dickinson** (57), chemical engineer, Bound Brook, N. J., June 1; **Alfred R. L. Dohme** (85), of Sharp & Dohme, Inc., Baltimore, June 10.

William G. Epstein (65), physician and surgeon, Chicago, June 16; **Ifor L. Evans** (55), economist, Aberystwyth, Wales, May 31; **Walter Evans** (53), of Annapolis, Md., president, Westinghouse Radio Stations, Inc., Baltimore, May 28; **H. Quimby Gallupe** (63), surgeon, Waltham, Mass., May 29; **John J. Gilbride** (—), physician and surgeon, Philadelphia, June 11; **Philip E. Haebler** (54), of Montclair, N. J., metallurgist, Port-au-Peck, N. J., June 7; **Arthur P. Hasking** (72), physician, Jersey City, N. J., May 28; **John W. Heckert** (80), educator, Oxford, Ohio, June 6; **R. S. Hill** (82), surgeon, Montgomery, Ala., June

16; **William H. Hoover** (63), president, Anaconda Copper Mining Co., Butte, Mont., June 6; **James C. Irvine** (—), educator and chemist, St. Andrews, Scotland, June 12; **Myles W. Johns** (—), physician and pioneer x-ray expert, Utica, N. Y., June 4; **Marvin F. Jones** (63), otolaryngologist, New York, May 26; **Otto Juliusberger** (85), psychiatrist, New York, June 7.

Max Kahn (79), physician, Cleveland, Ohio, June 2; **Theodore Kaletsky** (55), oral surgeon and educator, New York, May 21; **Luther H. Kice** (67), dermatologist and syphilologist, Garden City, L. I., May 30; **Charles K. King** (84), of Mansfield, Ohio, electrical engineer, Edgartown, Mass., May 30; **Albert D. Lasker** (72), philanthropist, New York, May 30; **John L. Lavan** (61), public health expert, Detroit, May 30; **Andrew C. Lawson** (90), geologist, San Leandro, Calif., June 16; **Louis J. B. Le Bel** (57), dermatologist and syphilologist, Passaic, N. J., May 20; **Frank A. Lorenzo** (73), bone specialist, Punxsutawney, Pa., May 30; **James E. Lough** (81), educator, Fort Worth, Tex., June 3; **Frank R. McCrary** (72), naval aviation pioneer, Oakland, Calif., June 10; **Jerome McCrystle** (—), mining engineer, Wilkes-Barre, Pa., June 16; **Samuel S. Mackeown** (56), electrical engineer, Pasadena, Calif., May 29; **Albert A. Merrill** (77), aeronautical scientist, Los Angeles, June 1; **Henry C. Miller** (—), mineralogist, Durango, Mexico, June 10; **Paul G. Miller** (77), of Winneconne, Wis., educator, Oskosh, Wis., May 21; **Richard H. Miller** (67), surgeon, Boston, June 3; **John W. Mills** (—), biologist, Homestead, Fla., Apr. 16; **Percy E. Mills** (63), electrical engineer, Towaco, N. J., May 27; **Louis L. A. Mowbray** (74), aquarium expert, Hamilton, Bermuda, June 5.

Cecil P. Newman (86), geneticist, Ville La Salle, Quebec, June 3; **John L. Perry** (71), former president, Carnegie-Illinois Steel Corp., Pittsburgh, May 27; **Charles E. Randa** (56), electrical engineer, Roselle, N. J., June 2; **Percy E. Raymond** (72), paleontologist, Cambridge, Mass., May 17; **John C. Reed** (50), mining engineer, Louisville, Ky., June 16; **Clarence Robison** (79), educator, Soquel, Calif., May 21; **Lyman H. Robison** (68), physician, Los Angeles, June 15; **Samuel R. Rosen** (40), psychiatrist, New York, May 24; **Harry R. Standiford** (65), civil engineer, New York, June 1; **John P. Stout** (64), agriculturist, Springfield, Ill., May 21; **May Strang** (—), of Pelham Manor, N. Y., founder of cancer prevention clinics, New York, June 11; **John A. Summers** (73), electrical engineer, Cleveland, June 2; **Aikitsu Tanakadate** (95), geophysicist, Tokyo, May 21; **Norma S. Thompson** (64), former secretary, Rockefeller Foundation, New York, June 12; **Charles R. Toothaker** (79), mineralogist, Philadelphia, May 25; **Bertha Van Hoosen** (89), physician, Romeo, Mich., June 7; **Anna H. Voorhis** (85), gynecologist, Mount Vernon, N. Y., June 9; **Herbert Walker** (74), sugar technologist, Manila, June 12; **James L. Walsh** (67), of Summit, N. J., former president, American Ordinance Association, Washington, D. C., June 11.