

# NEWS

## and Notes

**Richard P. Feynman**, Cornell University physicist, will present twelve lectures, beginning February 6, as the third seminar series in physics at California Institute of Technology, Pasadena. I. I. Rabi and J. Robert Oppenheimer conducted the first two series. Dr. Feynman's subject is "Quantum Electrodynamics and Meson Theories."

**Byron J. Olson**, senior surgeon at the National Institutes of Health, has been appointed assistant chief of the NIH Laboratory of Infectious Diseases, Bethesda, Maryland.

**Earle M. Billings** has resigned as secretary of the American Chemical Society's Committee on Professional Training because of ill health. He has held the post since the committee was organized in 1936 to raise the standards of the teaching of chemistry in colleges and universities. The new secretary is **John Howard**, Eastman Kodak Company's business and technical personnel director. The committee has headquarters in Rochester, New York.

**Richard E. Vaughan** will retire as professor emeritus from the post of extension plant pathologist at the University of Wisconsin on January 31. Dr. Vaughan, who has held the position since 1915, was one of the first extension pathologists in the country.

The 17th annual E. Starr Judd Lecture in surgery will be given by **Henry K. Beecher**, Dorr Professor of Research in Anesthesia, Harvard Medical School, on Thursday evening, February 16, at the University of Minnesota, Minneapolis. Dr. Beecher's subject is "Growth in the Field of Anesthesia: Some Problems in the Control of Pain."

**Gordon H. Scott**, acting dean of the Wayne University College of Medicine since September 1948, has been named dean of the college. Before coming to Wayne, Dr. Scott was chairman of the Department of

Anatomy at the University of Southern California.

**Louis Koenig**, former chairman of chemistry and chemical engineering at Armour Research Foundation, Chicago, has been appointed to the newly created position of assistant director of research at Stanford Research Institute, Stanford, California. Dr. Koenig will have full administrative charge of institute activities in chemistry, chemical engineering, metallurgy, applied biology, food technology, and pharmacology.

**Harvey Fletcher**, former director of physical research for the Bell Telephone Laboratories, has been appointed visiting professor of electrical engineering at the Columbia University School of Engineering for the spring session. He will give two new courses, one on elements of acoustical engineering, the other on speech and hearing as applied to communication. Dr. Fletcher retired last October after 33 years with Bell Laboratories.

**Eleanor Heist Slifer**, assistant professor of zoology at the State University of Iowa, has been granted a year's leave of absence to serve as consultant and adviser for the Anti-Locust Research Center of the United Kingdom Colonial Office. Dr. Slifer will do research on locust physiology, which forms part of the general investigation being conducted at Cambridge and other universities in England. During the year beginning February 1 Dr. Slifer's address will be Department of Zoology, Cambridge University, Cambridge, England.

## Grants and Awards

The **Benjamin Franklin Medal** was awarded to Charles F. Kettering, research consultant of the General Motors Corporation, at a luncheon meeting of the International Benjamin Franklin Society held in New York City on January 21. The gold medal, given for outstanding results in science, was presented to Dr. Kettering by George L. Bliss, president of the society.

The **Sarah Mellon Scaife Foundation** has awarded two grants total-

ing \$35,000 to the University of Pittsburgh. The Addison H. Gibson Medical Laboratory at the university received \$10,000. The laboratory is conducting research in arteriosclerosis and other heart and circulation problems and the use of radioactive isotopes in medicine. The remaining \$25,000 will be used for a study of nursing service.

The **Institute of Radio Engineers**, at its annual meeting in New York City, March 6-9, will present the following awards: *1950 IRE Medal of Honor* to Frederick E. Terman, dean of the School of Engineering, Stanford University, for his contributions to radio and electronics as teacher, author, scientist, and administrator; *Brouder J. Thompson Memorial Prize* to Joseph F. Hull, research engineer, and Arthur W. Randals, research physicist, for "High Power Interdigital Magnetrans" done for the U. S. Army Signal Corps; *Harry Diamond Memorial Award* to Andrew V. Haeff, consultant, Naval Research Laboratory, for his work in high frequency radio analysis, the traveling wave tube, and memory storage devices.

Fred L. Soper, director of the Pan American Sanitary Bureau, was awarded the **Theobald Smith Gold Medal** at a recent meeting of the American Society of Tropical Medicine, the American Academy of Tropical Medicine, and the National Malaria Society. The award was presented to Dr. Soper for his work as director of the Brazilian Yellow Fever Service in the eradication of two mosquito vectors, *Anopheles gambiae* and *Aedes aegypti*.

The **1949 John Jeffries Award**, sponsored by the Institute of Aeronautical Sciences, has been presented to A. D. Tuttle, medical director of the United Air Lines. The award, which honors the memory of John Jeffries, who made the first aerial voyage across the English Channel in 1785 with the French balloonist, Blanchard, is given for outstanding contributions to the advancement of aeronautics through medical research.

The 14th annual award of the **Oersted Medal** of the American Association of Physics Teachers will

be made to Orrin H. Smith, professor of physics at De Pauw University, Greencastle, Indiana. Prof. Smith will receive the award for his contributions to the teaching of physics at the annual meeting of the association in New York, February 2-4.

The **Stephen Hales Prize** has been awarded Robert Emerson, research professor of botany at the University of Illinois, by the American Society of Plant Physiologists in recognition of his work in photosynthesis. Dr. Emerson will deliver the Stephen Hales Lecture at the next meeting of the society.

### Visitors to U. S.

**Julien R. J. Goens**, Laboratoire de Physique, École Royale Militaire, Brussels; **Jacob Ramm**, director, Children's Dental Treatment, Oslo; and **R. R. Warnecke**, technical director, Centre de Recherches de la Compagnie Generale de Telegraphie Sans Fil, Paris, visited the National Bureau of Standards during the week of January 16-20.

### Fellowships, Assistantships, and Prizes

The **Plant Research Institute and the Botanical Laboratories of the University of Texas** are offering the following fellowships and assistantships for the academic year 1950-51: four teaching fellowships in the Botanical Laboratories (\$800-\$1,620); six research fellowships on problems within the Plant Research Institute, with preference given to applicants interested in physiology, genetics, morphology, anatomy, cytology, or ecology (\$1,500-\$2,400); one postdoctoral fellowship for work on an advanced problem (selected in consultation with the institute staff) within the fields of physiology, experimental morphology, or developmental genetics (\$3,000); several graduate and undergraduate teaching and research assistantships in both the laboratories and the institute (approximately \$1,000 for nine months); university fellowships to graduate students working toward advanced degrees (ranging up to \$1,000 for 9 months).

Complete information concerning

these fellowships and assistantships may be obtained from Dr. W. Gordon Whaley, Botanical Laboratories, University of Texas, Austin 12.

The **Williams-Waterman Fund** of the Research Corporation has made available to the **Institute for Enzyme Research of the University of Wisconsin** two fellowships for training in enzyme chemistry. One of the fellowships is intended for recent graduates with a Ph.D. degree and the other is for a senior investigator. The stipends will range from \$3,000 to \$4,000. Applications should be sent to Dr. D. E. Green of the Institute for Enzyme Research.

The **American Cancer Society** is offering a limited number of clinical fellowships for 1950-51. The fellowships are awarded to institutions only, upon application by deans, executive officers, or department heads. Selection of individual recipients of the fellowships is then made by the designated institutions. Fellowships are for a minimum of one year, and may be renewed up to a maximum of three years, with an annual award of \$3,600. Training may be either general or specific. Individual recipients must be graduates of Class A medical schools, not over 40 years of age, and have completed one year of postgraduate training, exclusive of internship. Those interested should consult the appropriate authority in the institution of their choice. Institutional applications must be submitted prior to *February 15*, and should be sent to Dr. Brewster S. Miller, Assistant Director, Professional Education Section, American Cancer Society, 47 Beaver Street, New York City.

**Lehigh University** offers the following graduate fellowships for the 1950-51 academic year: *Dupont Company Fellowships in Mechanical and Metallurgical Engineering*—\$1,200 for single fellow, \$1,800 for married fellow, preference given to applicants who have already done considerable work toward the doctorate; *George Gowen Hood Fellowship* (supported by the Catherwood Foundation)—\$1,500 for work in any field in which the university offers the doctoral degree; *International Nickel Company Fellowship in Metallurgical*

*Engineering*—\$1,500; *Francis Mac D. Sinclair Fellowship in Chemistry*—offered in connection with the research program of the National Printing Ink Research Institute for work in the fundamental physical chemistry of systems related to printing ink, \$1,200-\$1,800; *Westinghouse Fellowship in Mechanical Engineering*—\$1,000. All fellowships except Westinghouse are free from tuition fees; the Westinghouse award may be so augmented by the university. Further information is available from Dean Wray H. Congdon, Director of Admissions, Lehigh University, Bethlehem, Pennsylvania.

**Two research fellowships in biology and two research assistantships in bacteriology** will be awarded for 1950-51 by the University of Delaware. Each will carry a stipend of \$1200 for 12 months. Application blanks may be obtained from the chairman of the Graduate Division of the university, and applications should be sent to the chairman of the Department of Biological Sciences not later than *March 1*.

The **Institute for the Unity of Science** is offering a prize of \$300 for the best essay on the theme "The Divorce Between Science and Philosophy: Its Historical Origins, Its Logical Basis, and Proposals for Its Termination." Two additional prizes of \$100 each will be given for the next best two essays. The contest is open to college and university students in the U. S. or Canada, as well as to any recipient of a Ph.D. degree obtained since July 1, 1947. Essays must not exceed 10,000 words and must be submitted before *January 1, 1951*. Further information can be obtained from the Institute for the Unity of Science, American Academy of Arts and Sciences, 28 Newbury Street, Boston 16, Massachusetts.

A graduate fellowship in chemical genetics or biochemistry has been established at the California Institute of Technology by the McCallum Foundation, in cooperation with the Nutrition Foundation. This fellowship provides for tuition, living expenses, and research supplies, up to a total of \$2,500 per year,

and is renewable for a second year. The recipient will be expected to choose a thesis problem concerned with the question of how ingredients of foodstuffs are built up and utilized in living cells. Applications for the McCallum Fellowship should be made through the Dean of the Graduate Studies, California Institute of Technology, Pasadena 4, California.

### Colleges and Universities

An institute on Design of clinical research in psychology, psychiatry, and social work will be presented by the Departments of Psychology and Social Welfare of the **University of California Extension and the University of California at Los Angeles**. James G. Miller, chairman of the Department of Psychology at the University of Chicago, will conduct the institute. Sessions begin on February 6, and will be open to nonstudents. Information concerning the institute is available at the university extension offices at 813 South Hill Street, Los Angeles 14, or at UCLA.

**The Institute for Nuclear Chemistry** at Upsala University, Sweden, was formally opened on December 8. T. Svedberg, who has retired after more than four decades of teaching at the university, will carry on his investigations at the new institute as professor emeritus. The institute's subterranean cyclotron is nearing completion.

**The seventh annual Wayne University lecture series**, "Frontiers in Chemistry," will be held on Monday evenings beginning February 27, in Room 101, Science Hall, on the Wayne campus in Detroit. The series is cosponsored by the International Society of the Friends of the Kresge-Hooker Library and Wayne's Department of Chemistry. Speakers are: Arthur C. Cope, Massachusetts Institute of Technology; John R. Johnson, Cornell University; Ralph S. Shriner, State University of Iowa; Carl Niemann, California Institute of Technology; Morris Kharasch, University of Chicago; Charles R. Hauser, Duke University; William G. Young, University of California, Los Angeles; and S. M. McElvain, University of Wisconsin. Additional in-

formation may be obtained from Dr. J. Russell Bright, Chairman, Department of Chemistry, Wayne University, Detroit, Michigan.

### Industrial Laboratories

**Bausch and Lomb Optical Company** has elected M. Herbert Eisenhart as chairman of its board of directors. Dr. Eisenhart has been president of the company since 1935. Joseph F. Taylor, vice president and treasurer, was elected to succeed Dr. Eisenhart as president. William W. McQuilkin, who joined the company as counsel in 1938, and has been assistant treasurer since 1947, succeeds Dr. Taylor as treasurer.

Robert T. Connor, vice president of research and development at the Harrower Laboratories, Inc., of Glendale, California, has been appointed technical assistant to the director of the research laboratories of **Smith, Kline and French Laboratories**, Philadelphia.

**M. William Amster**, of Schering Corporation, Bloomfield, New Jersey, has been made head of the company's Medical Service Department. He succeeds **Norman L. Heminway**, who becomes associate director of the Clinical Research Division.

**The Mohave Instrument Company**, manufacturers of geological and scientific instruments, changed its name to **Stratex Instrument Company** on January 1. Offices are located at 1861 Hillhurst Avenue, Los Angeles.

### Meetings and Elections

**The 17th annual assembly of the American Academy of Orthopaedic Surgeons** will meet at the Waldorf Astoria Hotel in New York City on February 11-16. The first day will be devoted to an audiovisual education program, including a number of movies demonstrating various bone and joint operations and allied subjects. On February 12 and 13 courses in bone surgery will be presented.

Plans are being made for an **international colloquium on rheological problems in biology**, to be held in July, 1950, in Scandinavia. Papers will be presented in such fields as the circulation of blood, the mechanical properties of muscle, the

movements of sap in plants, and the rheological behavior of protoplasm. The colloquium is being arranged under the auspices of the Joint Committee on Rheology of the International Council of Scientific Unions by an organizing subcommittee consisting of H. Eyring (Utah), A. Frey-Wyssling (Zurich), G. van Iterson (Delft), and P. Eggleton (Edinburgh). Further information may be obtained from Dr. Eggleton, Department of Physiology, University of Edinburgh, Edinburgh 8.

**An international symposium on chloromycetin**, with special regard to typhoid fever and brucellosis, will be held in Milan during the second Italian Congress on Antibiotics, June 3-5. Research workers and physicians from Europe and the U. S. will participate. Additional information may be obtained from the Italian Center of Studies on Antibiotics, Via Francesco Sforza 38, Milan.

**A conference on the properties of semiconducting materials** will be held at the University of Reading, July 10-15, under the auspices of the International Union of Physics in cooperation with the Royal Society and assisted by Unesco. The conductive properties of nonmetallic solids, photoconduction, barrier-layer rectifiers, crystal triodes, and related theoretical issues are among the subjects to be presented by leading research workers from Czechoslovakia, France, the Netherlands, Sweden, Switzerland, Great Britain, and the U. S. who have accepted invitations to contribute papers. The conference will be organized by N. F. Mott and R. W. Ditchburn, British physicists. Proceedings will be published in book form. Further information can be had by writing to Dr. H. K. Henisch, Department of Physics, University of Reading, Reading, England.

**The American Physical Society** will hold its 298th meeting at Oak Ridge, Tennessee, March 16-18, in conjunction with the society's Division of Solid State Physics' annual meeting. Further information may be obtained from Karl K. Darow, secretary, American Physical Society, Columbia University, New York City 27.

The Office of Naval Research Advisory Panel on Microbiology will hold its spring meeting in Washington, D. C. April 14-15. Proposals for ONR sponsorship of basic research in the field of microbiology received before March 15 will be reviewed at that time. Roger D. Reid is head of the Microbiology Branch, which directs activities in bacteriology, virology, immunology, parasitology, mycology, and pathology.

The following officers have been elected for 1950 by the **Society of Systematic Zoology**: president, Lee R. Dice, Laboratory of Vertebrate Biology, University of Michigan; president elect, Carl L. Hubbs, Scripps Institution of Oceanography, La Jolla, California; and secretary-treasurer, Richard E. Blackwelder, of the U. S. National Museum.

The **Torrey Botanical Club** elected the following officers for 1950 at its annual meeting held January 17: president, Harold H. Clum, Hunter College; first vice president, A. E. Hitchcock, Boyce Thompson Institute for Plant Research; second vice president, L. M. Black, Brooklyn Botanic Garden; treasurer, Elva Lawton, Hunter College.

## Deaths

**Caleb Lothrop Smith**, professor of analytical and inorganic chemistry at the State University of Iowa, Iowa City, and head of that division, died on December 26 at the age of 43 after a long illness. He had been on the teaching faculty of the university since 1931 with the exception of two years spent at the metallurgical laboratory of the University of Chicago and at the Clinton Engineering Works of Tennessee Eastman Corporation at Oak Ridge during World War II.

**Charles S. Parker**, mycologist and professor emeritus of botany, who retired as head of the Department of Botany at Howard University June, 1947, died January 10 in Seattle, Washington, at the age of 68. Dr. Parker is best known for his monograph on the North American genera of *Hypholoma*.

**Charles J. Moore**, professor emeritus of chemistry at Hunter College, died at his home in Jacksonville, Florida at the age of 74. Dr. Moore was professor of chemistry and head of the Department at Hunter for 24 years until his retirement in June, 1945.

A new edition of the **U. S. National Commission for Unesco publication "Study Abroad,"** Volume II (see *Science*, 109, p. 218) is now available and brings up to date the list of fellowships, scholarships, and grants for study in 53 nations and 23 territories. Copies are available from the Columbia University Press, 2960 Broadway, New York, at \$1.25.

**Black Rock Forest**, Cornwall-on-Hudson, New York, a private forest experiment station specializing in silvicultural research, has been bequeathed by the will of the late owner, Ernest G. Stillman, to Harvard University. A substantial endowment is included in the bequest. It is expected that research will continue under the aegis of the Harvard Forest School. Henry H. Tryon has retired as director of the forest.

The **National Chemical Laboratory of India** was officially opened by the Prime Minister of India, Pandit Nehru, on January 3. It is the seventh national laboratory to be completed of the eleven planned by India's Council of Scientific and Industrial Research.

The building, begun in April, 1947, is of western design and magnificent proportions and is set in a natural amphitheatre of hills about four miles from Poona. It is equipped for scientific research in chemistry, in both pure and applied fields, and when completely staffed will operate through nine departments—organic chemistry, biochemistry, chemical engineering, plastics and high polymers, survey and information, inorganic chemistry, physical chemistry, administration and standardization of chemicals, development of Bhilawan and Cashew products. It will thus provide means for effective cooperation between scientific research and industrial production.

The problem of collecting the right personnel for staffing the lab-

oratory is gradually being solved by the director, J. W. McBain, former chemistry professor at Stanford University, whose unceasing work since his arrival in October, 1949, is largely responsible for the advanced stage which the laboratory has reached. Several of the nine departments are already operating and about 76 of the staff, which will ultimately number some 150 scientists, have been appointed.

The opening ceremonies were presided over by the Governor of Bombay. Others who took part were Syama Prasad Mookerjee, Minister of Industry and Supply, and vice president of the council; S. S. Bhatnagar, director, Scientific and Industrial Research; and four Nobel laureates, Sir Robert Robinson, A. H. Compton, Irene Joliot-Curie, and Sir C. V. Raman. After the opening, the laboratory was inspected by Pandit Nehru, Dr. McBain, and a large number of scientists, including many from overseas. About 5,000 attended the ceremony.

## Recently Received—

*International Control of Atomic Energy and the Prohibition of Atomic Weapons.* Recommendations of the United Nations Atomic Energy Commission. U. S. Department of State. Publ. 3646. U. S. GPO, Washington 25, D. C.

*Water Temperature Records from California's Central Valley, 1939-48.* Special Scientific Report, Fisheries No. 2, Fish and Wildlife Service, U. S. Department of the Interior, Washington, D. C.

*Sea Turtles and the Turtle Industry of the West Indies, Florida and the Gulf of Mexico, with Annotated Bibliography.* Robert M. Ingle and F. G. Walton Smith. Marine Laboratory, University of Miami, Coral Gables, Fla.

*Proceedings of the Gulf and Caribbean Fisheries Institute, August, 1948.* Marine Laboratory, University of Miami, Coral Gables, Fla.

*High-Frequency Voltage Measurement.* Myron C. Selby. Circ. 481, National Bureau of Standards. U. S. GPO, Washington 25, D. C. 20 cents.