

In celebration of BERNARD S. OPENHEIMER's 80th birthday, friends have set up in his honor a fund to be administered by the Committee on Medical Education of the New York Academy of Medicine. The fund is for research in the field of medicine, for help to young men of outstanding promise, and for the advancement of medical education through lectures by eminent scholars.

VIRGINIA ARNOLD, formerly chief nurse in the Division of International Health, U.S. Public Health Service, has joined the staff of the Rockefeller Foundation as assistant director for medical education and public health. She has supervised USPHS nursing programs under the government's technical assistance programs in Latin America, the Near, Middle, and Far East, and Southeast Asia.

ROBERT S. WOODWORTH, emeritus professor of psychology at Columbia University, has received the American Psychological Association's first gold medal for distinguished achievement in American psychology. His textbook has been used by thousands of students, and for 60 years he has been an innovator and integrator of scientific psychology. Woodworth, who is 86 years old, still teaches a regular course.

Others honored during the recent annual meeting of the APA included KENNETH W. SPENCE of the State University of Iowa, for his work in attempting to develop a general theory of learning and behavior; CARL R. ROGERS, for his work in psychotherapy and its effects on personality and behavior; and WOLFGANG KOHLER, professor emeritus of Swarthmore College, for his investigations of the functional properties of perception.

EMANUEL R. PIORE has joined International Business Machines Corporation as director of research. He will head research being carried out in laboratories located in New York and California and in Zurich, Switzerland. A physicist, Piore was formerly chief scientist of the Office of Naval Research. His most recent post was research vice president for the Avco Manufacturing Corporation; he remains a consultant for that firm.

WALLACE GIVENS, formerly a consultant in mathematics at Oak Ridge National Laboratory and a professor at the University of Tennessee, has joined the mathematics department and computation laboratory of Wayne State University (Detroit). He is best known for his work in numerical methods used in the solution of large problems on electronic computers.

As a part of the centennial celebration of the University of Maryland, the university's department of physics is offering a special series of lectures entitled "The Centennial Lectures in Physics." The first five lectures, which took place between 24 Sept. and 2 Oct., were delivered by ALDUS SALAM of St. John's College, Cambridge, England; LEON C. VAN HOVE of the Institut voor Theoretische Fysica der Rijksuniversiteit, Utrecht, the Netherlands; ILYA PRIGOGINE of the University of Brussels, Brussels, Belgium; MAURICE H. L. PRYCE of the H. H. Wills Physical Laboratory, Royal Fort, Bristol, England; and FREDERICK REINES of the Los Alamos Scientific Laboratory, New Mexico, U.S.A.

JAMES STOKLEY, since 1941 a member of the General Electric Company's News Bureau in Schenectady, N.Y., has been appointed associate professor at Michigan State University. He will teach science writing in the School of Journalism and will also conduct radio and television programs on science over the university's stations.

F. E. TERMAN, dean of the School of Engineering and provost of Stanford University, has received the first Member-for-Life medal of the American Institute of Electrical Engineers. The medal will be awarded annually to an engineering educator.

ROBERT W. KRAUS, associate professor of botany at the University of Maryland, received the Darbaker prize of the Botanical Society of America during its recent annual meeting. He was honored for meritorious research in the field of microscopic algae.

As part of the celebration of the 50th anniversary of the founding of the society, 50 certificates of merit were awarded to distinguished plant scientists. The list included the current president of the AAAS, PAUL B. SEARS, and three former presidents—G. W. BEADLE, E. W. SINNOTT, and E. C. STAKMAN.

BEN R. BURMESTER of the Regional Poultry Research Laboratory, USDA, East Lansing, Mich., has received the 1956 Tom Newman memorial award of the Poultry Association of Great Britain for his series of seven papers on visceral lymphomatosis of chickens.

ROGER MOE, formerly a member of the technical staff at the Bell Telephone Laboratories in Murray Hill, N.J., has been appointed senior scientist at the Palo Alto, Calif., laboratories of the Lockheed Missile Systems Division.

B. R. SEN of India, ambassador to the United States in 1951-52, has been appointed director-general of the Food and Agriculture Organization.

## Recent Deaths

LEROY ABRAMS, Stanford, Calif.; 81; emeritus professor of botany and former director of the Natural History Museum at Stanford University; 15 Aug.

ARTHUR L. CLARK, Kingston, Canada; 83; former dean of science at Queen's University; 19 Sept.

ALLAN R. CULLIMORE, South Orange, N.J.; 72; president emeritus of the Newark College of Engineering; 20 Sept.

RAMON DE LARA, Caracas, Venezuela; 72; former rector and professor of medicine at the University of Santo Domingo; 20 Sept.

FREDERICK G. ELSTON, New York, N.Y.; 61; mathematics instructor at Seton Hall University; 21 Sept.

HERBERT W. HARMON, Grove City, Pa.; 84; retired head of the physics department at Grove City College; 22 Sept.

GEORGE B. LAMB, Houston, Tex.; 60; director of Gulf Oil Corporation's exploration operation in the southern states; 20 Sept.

FRED G. LAPIANA, Eastham, Mass.; 71; retired textile chemist; 20 Sept.

FREDERICK SODDY, Brighton, England; 79; Nobel laureate in chemistry; 21 Sept.

WILFRED H. WRIGHT, Ottawa, Canada; 71; retired chief of laboratory services in the Federal Agriculture Department's plant products division; 22 Sept.

## Education

■ The American Board of Nutrition will hold the next examinations for certification as a specialist in human nutrition in April 1957 at Chicago, Ill. Candidates who wish to be considered for these examinations should submit applications *not later than 1 Mar.* Information may be obtained from the secretary, Otto A. Bessey, Environmental Protection Research Division, Quartermaster Research and Development Center, Natick, Mass.

■ John G. Fowlkes of the University of Wisconsin School of Education, who has spent most of the past 2 years in India advising the Ministry of Education, will direct the Wisconsin training program to improve science teaching in the secondary schools and teaching colleges of India. The work has been made possible by the university's recent acceptance of \$84,800 from the Ford Foundation. The grant

will establish 20 fellowships for Indian educators in the School of Education. Fowlkes is being assisted by Milton Pella in preparing the program.

The fellowship recipients will arrive in January to spend 9 months studying science teaching methods at the university, at state colleges, and in high schools throughout the state. Their training will include actual teaching assignments in high schools. Emphasis in the program will be on general science, so that general science courses may be added to the curricula of Indian high schools.

■ A technical education team from Wayne State University is leaving for Thailand this month to assist in the development of the Bangkok Technical Institute. The nine members have signed 2-year contracts for an International Cooperation Administration mission that is expected to continue for from 3 to 6 years. Specialties represented by the group are teacher education, home economics, commerce, metal technology, woodworking and building trades, electronics, automotive trades, and diesel mechanics. Members of the Bangkok team have been teaching in Ohio, Alabama, Virginia, West Virginia, and Michigan. All have done undergraduate or graduate work at Wayne.

William E. Stirton, formerly a Wayne vice president, now with the University of Michigan, went to Thailand last spring and worked out the details of the project with the Thai government. Through a special agreement, Stirton remains official administrator of the \$835,000 program. The Bangkok Technical Institute is expected to be a model for southeast Asia. It produces teachers for other technical institutes throughout Thailand.

Also under the ICA contract, Wayne State will enroll 30 Thai industrial educators during the initial 3-year period. These technical institute instructors will study American methods, both technical and professional.

■ Construction has begun on the University of Connecticut's new science building, which will cost \$1.2 million. The building will be given over to the physics and chemistry departments, reflecting the tremendous development of these two university programs.

■ The teaching of writing, speaking, and engineering judgment should get more emphasis in chemical engineering courses, a survey of recent graduates by the Esso Research and Engineering Company indicates. A report on the study, which covers 125 employees graduated since 1949 from 51 schools, was presented recently by John W. Packie and Charles W. Smith during a session of the 130th

national meeting of the American Chemical Society. Forty-five percent of the supervisors questioned listed inadequacy in letter and report writing as the greatest weakness among employees during the past 5 years.

### Grants, Fellowships, and Awards

■ The allocation of 12 grants for research on various phases of air pollution have been announced by the Public Health Service. Six of the grants, totaling \$177,548, are for new projects. The remaining six grants, amounting to \$141,020, will continue support of projects that are already under way.

These grants make a total of 32 that have been awarded since July 1955, when air-pollution research was made a responsibility of the Public Health Service. All told, \$780,137 has now been allocated to agencies, institutions, and individuals outside the Federal Government for such investigations.

■ The John Hay Whitney Foundation has announced its Opportunity Fellowships Program. Its purpose is to broaden opportunities in America and, specifically, to give opportunity for special experience or advanced study to persons of exceptional promise who otherwise might not be able to reach their fullest development or make their fullest contribution.

The competition for opportunity fellowships is open to any citizen of the United States (including residents of territories) who has given evidence of special ability and who has not had full opportunity to develop his talents because of arbitrary barriers, such as racial or cultural background or region of residence. Awards have been made principally to the following groups: Negroes, Spanish-Americans, Chinese- and Japanese-Americans, American Indians, and residents of the Virgin Islands, Puerto Rico, Hawaii, Guam, Alaska, Samoa, and the Appalachian Mountain area.

Candidates are expected to be mature enough to have given positive evidence of exceptional promise, yet young enough to have their careers before them; in general, they should be between the ages of 22 and 35 and have completed their general undergraduate education. Candidates under 35 are given decided preference.

The fellowships are open not only for academic study (graduate) but for any kind of training or experience (journalism, industry, labor, the arts, and so forth) which may be most useful in developing varied talents and varied forms of leadership. Applicants for apprenticeships in such areas as agriculture, industry, and labor will be welcomed.

Awards are expected ordinarily to

range from \$1000 to \$3000 depending on the nature of the proposed project and the financial need of the candidate. It is hoped that in many cases funds from other sources may supplement the awards.

Awards are made annually by a special committee on the basis of formal written applications by the candidates on forms provided by the foundation. Completed applications must be filed *not later than 30 Nov.* For further information, write to: Opportunity Fellowships, John Hay Whitney Foundation, 630 5th Ave., New York 20, N.Y.

■ Longwood Gardens of the Longwood Foundation, Inc., has announced a grant to the Department of Agriculture's Plant Introduction Section in Beltsville, Md., to support the exploration and introduction of new or little known plants of potential value to ornamental horticulture in the United States. The introduction of agricultural plants has long been the primary objective of this country's foreign plant exploration. The Longwood grant will now permit full-time search for ornamentals. Under the cooperative agreement recently consummated, the USDA will undertake exploration for ornamental plants in Japan, Yokushima, and the Ryukyu Islands during 1956 and 1957.

■ Grants from the Rumford Fund of the American Academy of Arts and Sciences are made in support of research in the areas of heat and light, including thermodynamics and radiation of any frequency, in amounts usually not exceeding \$1000. Applications for grants should be filed *by 1 Jan. 1957* on forms available from the Chairman, Rumford Fund, American Academy of Arts and Sciences, 77 Massachusetts Ave., Cambridge 39, Mass.

■ The U.S. Atomic Energy Commission has announced the award of 48 unclassified life-science research contracts in medicine, biology, biophysics, radiation instrumentation, and special training. Twenty-one of the 1-year awards are new projects; five are in the field of medicine, 12 in biology, one in biophysics, and three in special training. Twenty-seven of the awards are contract renewals; 14 of these are in the medical sciences, ten in biology, two in biophysics, and one in radiation instrumentation.

■ The Scholar in Medical Science program to aid young men and women planning careers in academic medicine has been conducted since 1948 by the John and Mary R. Markle Foundation, in cooperation with approved medical schools in the United States and Canada. The general qualifications for candidates for the scholar grants are (i) nomination by an approved undergraduate medical