

General. Grants-in-aid, usually ranging between \$500 and \$1500, are available from funds administered by the American Academy of Arts and Sciences for research in any recognized scientific field, including mathematics, physics, biology, and the social sciences. Applications must be received *before 1 February* for grants to be made in March, and before 1 September for grants to be made in October. In general, applications from individual scientists rather than from institutions are favored, although this is not an inflexible policy. Projects dealing with explorations of the frontiers of scientific knowledge, whether interdisciplinary or within a discipline, are preferred.

While the Committees on Research Funds are interested in applicants handicapped by inadequate facilities, requests for the purchase of nonexpendable laboratory equipment usually available in the institutions of higher learning are in general not considered. Support is not usually given for work aimed primarily at fulfilling the requirements of an academic degree.

Inquiries and requests for application forms should be addressed to: Committees on Research Funds, American Academy of Arts and Sciences, 280 Newton Street, Brookline Station, Boston 46, Mass.

Genetics. The American Society of Human Genetics has been granted funds by the National Science Foundation and the U.S. National Institutes of Health for the support of travel of a limited number of the American scientists who will attend the second International Conference of Human Genetics, to be held in Rome, Italy, 7-12 September 1961. The secretary of the American Society has mailed applications to members. Nonmembers may obtain forms from Professor C. P. Oliver, Department of Zoology, University of Texas, Austin.

The amounts granted will depend on the number of applications but probably will not exceed air-tourist round-trip fare to Rome. Maximum travel grants will be awarded to persons invited by the secretariat of the conference to participate in symposia and to applicants whose abstracts are approved by the society's Committee on Program Arrangements. Persons who will not present papers at the conference may apply for partial travel assistance; the procedure is explained in the application form.

Health physics. The Oak Ridge Institute of Nuclear Studies is accepting

applications from college seniors and graduates for Atomic Energy Commission special fellowships in health physics. Applications are open to students who, by the fall of 1961, will have received their bachelor's degrees in biology, chemistry, engineering, or physics and will have completed the study of mathematics through calculus. Applicants with majors in related science will also be considered.

Under the Health Physics Fellowship Program, appointees spend the 1961-62 academic year at one of eight universities, then have 3 months of practical experience at an AEC laboratory. The fellowships may be extended in some cases into a second academic year for the completion of requirements for a master's degree.

The basic annual stipend is \$2500, with an additional \$350 allowed for each dependent. The fellowship also covers normal tuition and required fees and also includes a limited travel allowance.

Deadline for filing applications is *1 February 1961*. Further information and applications are available from the Health Physics Fellowship Office, Oak Ridge Institute of Nuclear Studies, P.O. Box 117, Oak Ridge, Tenn.

Pharmacognosy. The American Foundation for Pharmaceutical Education annually offers three Edwin Leigh Newcomb memorial awards for meritorious papers and essays in the field of pharmacognosy. A \$250 prize is provided in each of three categories: (i) undergraduate student; (ii) graduate student; (iii) teacher, research worker, or industrial scientist. Unpublished essays or published papers may be submitted, but the latter must have appeared not more than a year prior to receipt by the awards committee. All entries, in triplicate, must be received before *1 February 1961* by Dr. H. W. Youngken, Massachusetts College of Pharmacy, 179 Longwood Ave., Boston 15, Mass.

Teacher training. The National Science Foundation supports a Summer Institutes Program that provides courses especially designed for secondary school science and mathematics teachers. These institutes vary widely in scope, including programs planned for (i) teachers with weak or insufficient subject-matter backgrounds; (ii) teachers with backgrounds that are adequate but out of date; (iii) teachers desiring more advanced training; and (iv) teachers desiring training in specialized areas. In addition to courses, the institutes provide excellent opportunities for valuable

and informal contacts among the teacher-participants and the instructional staff.

Summer institutes are given wide publicity by the sponsoring institutions, which usually distribute brochures outlining their offerings. Information, including application blanks, relative to a specific institute must be obtained from the host institution, *not* from the foundation.

Participants in the Summer Institutes are exempt from payment of tuition and fees and, in addition, receive stipends of not more than \$75 per week plus dependency allowances of up to \$15 per week per dependent to a maximum of four. An allowance, not to exceed \$80, to aid in defraying the cost of one round trip from the participant's home to the institute, at the rate of 4 cents per mile, is normally available.

The deadline for teacher-participant applications for the 1961 Summer Institutes Program is *14 February 1961*. Approximately 340 institutes for high-school teachers of mathematics and science, to accommodate a total of 17,500 teachers, are being planned.

A national listing of the colleges and universities that offer summer institutes is issued annually by the foundation. Although the list will not be available until 1 January, requests for it may be made by a post card to the NSF (Washington 25, D.C.) at any time, and the list will be mailed when ready.

Scientists in the News

Detlev Bronk, president of the Rockefeller Institute, was recently elected an honorary member of the Brazilian Academy of Science and made an honorary doctor of the University of Brazil at a special university convocation. Bronk, who is also president of the National Academy of Sciences, has just returned from an extensive trip through Brazil, where he advised on the development of science as a basis for industrial expansion. He also delivered an address at the dedication of the new building for the Brazilian Academy of Science.

Charles D. Cox has been appointed head of the Microbiology Branch of the Office of Naval Research, Washington, D.C. He has held teaching positions at the Medical College of Virginia, Pennsylvania State University, and the University of South Dakota.

George W. Beadle, chairman of the department of biology at California Institute of Technology and former AAAS president, will deliver the Philosophical Society of Washington's ninth annual Christmas Lectures for high school students and their teachers, at George Washington University on the evenings of 22 and 23 December. Beadle, who was the recipient of the Nobel Prize in 1958, will discuss genetics.

W. P. Jones, superintendent of the Aerodynamics Division of the British National Physical Laboratory, is spending 9 months as Jerome Clark Hunsaker professor at Massachusetts Institute of Technology.

Ralph O. Marts, a member of the research staff of the U.S. Forest Products Laboratory, Madison, Wis., has retired after 31 years of service. Marts is credited with the development of various techniques in the use of incident-light microscopy and photomicrography, some of which have been adapted also for use in medical research. His work in preparing specimens and in photographing the microstructure of wood earned him international recognition. Marts is also an authority on growth-quality relations as a result of his research involving springwood and summerwood development in artificially irrigated longleaf pine trees.

Brigadier General **Austin W. Betts**, director of the Advanced Research Project Agency of the Department of Defense since December 1959, has been named director of the Atomic Energy Commission's Division of Military Application, effective 15 January 1961. He will succeed Major General **A. D. Starbird** who has held the post since 1955. Starbird's next assignment has not been announced.

The University of Maryland has announced appointment of **Lorin J. Mullins** as professor and chairman of the medical school's newly established department of biophysics. Mullins has been at the medical school for a year as visiting professor of biophysics under a U.S. Public Health Service training grant. He was formerly associate professor of biophysics at Purdue University.

Also at Maryland, **Leon Bernstein** has been appointed associate professor for a year in the department of physiology. Bernstein, now assistant director

of professional services at the Veterans Administration Hospital in Loch Raven, is a graduate of the University of London, where he was a senior lecturer from 1951 to 1957. He is a specialist in respiratory physiology.

Robert W. Allard, professor of agronomy at the University of California, Davis, has been granted a Guggenheim fellowship to study stochastic processes in genetics during a 6-month sabbatical leave, to begin 1 February 1961, which he will spend at Oxford in the university's biometrical unit.

Two other Davis faculty members are taking sabbatical leaves abroad. **William A. Williams**, associate professor of agronomy, is spending a year at the University of Adelaide, Adelaide, Australia, where he is conducting research on the role of light in the competitive interactions of legumes and non-legumes.

Duane S. Mikkelsen, also associate professor of agronomy, has gone to Brazil for a year at the request of the IBEC Research Institute. His work will involve development of techniques for evaluation of the nutrient status of soils and study of the primary factors limiting efficient agricultural production in Brazil.

F. Douglas Lawrason, dean of the University of Arkansas Medical School, has been appointed executive medical director of Merck and Company, Inc., with headquarters at West Point, Pa. Lawrason, who is known for his research in cancer, in leukemia, and in other fields, will be responsible for all the medical activities of the company, including clinical research on drugs.

Stephen S. Chang, until recently a senior research chemist with the A. E. Staley Company, Decatur, Ill., has been appointed associate professor in the department of food science at the Rutgers College of Agriculture. He has a special interest in the technology of fats and oils and has had extensive experience in gas chromatography.

Marius Cohn has been appointed manager of the mathematics and logic research department at the Remington Rand Univac Military Division, St. Paul, Minn. He succeeds **Abraham Franck**, who has been granted a leave of absence to accept a visiting professorship at Iowa State University. Cohn was formerly staff consultant to Franck.

Bassett Maguire, head curator and coordinator of tropical research at the New York Botanical Garden, has been elected an honorary member of the Sociedad Venezolana de Ciencias Naturales, Caracas, Venezuela, because of his extensive explorations, over many years, of the great Roraima-type mountains of the Guiana Highlands.

R. L. Reagan, professor of virus diseases since 1946 at the University of Maryland, has resigned to accept the position of chief virologist at the Jen-Sal Laboratories (Vick Chemical Company), Kansas City, Missouri. Reagan will assume his new duties in the spring.

David A. McLean, component development engineer of the Bell Telephone Laboratories, Murray Hill, N.J., has received the 1959 Miniaturization Award, sponsored by Miniature Precision Bearings, Inc., for his new concept and successful method of producing microminiature electronic components and circuitry.

Recent Deaths

William E. Anderson, Miami, Ohio; 85; professor emeritus of mathematics at Miami University; 3 Dec.

Henry Federighi, Yellow Springs, Ohio; 60; professor of biology at Antioch College for many years and departmental chairman since 1942; was on sabbatical leave in Honolulu; known for his work on the relation between temperature and biological reactions, nerve regeneration, and studies of the biology of oysters and marine worms; 30 Nov.

John T. Patterson, Austin, Tex.; 82; internationally known geneticist; professor emeritus of zoology at the University of Texas, where he served for 45 years, 11 of them as department chairman; member of the National Academy of Sciences; 4 Dec.

William H. Smith, Cambridge, Mass.; 91; member of the Harvard Medical School faculty from 1900 to 1930; was on the house staff of Massachusetts General Hospital from the time he became a physician in 1897 until he retired, in 1942, as a member of its board of consultation; 1 Dec.

Erratum: The name of André Jagendorf, co-author (with Howard H. Seliger) of the report on the McCollum-Pratt Symposium on Light and Life [*Science* 132, 1698 (2 Dec. 1960)], was omitted from the published paper.