

needed to make the innovation a success. "You can't construct something without knowledgeable people around to advise," Stafford Warren, Kennedy's special assistant for mental retardation, pointed out recently. A related problem is that the states that need talented people in the field of mental health the most are the least able to attract them, if they have to draw exclusively on their own resources. The equalizing effect of federal funds for salaries was intended in part to minimize the differences between states, and now the money will not be available. Construction plans also may be affected by inequalities among the states. "The construction money [\$150 million, with the government contributing between 45-75% of the costs] . . . seems a lot," Warren said, "but by the time it's divided up between the states, it's only peanuts."

In total, the difference between Kennedy's request for mental health and the actual appropriation was \$564 million. The administration intends to ask Congress early next year for a supplemental appropriation to cover at least part of the staff salaries.

Of the \$329 million that was appropriated, \$150 million goes for the community centers, \$126 million (over 5 years) goes for constructing research and treatment facilities for the mentally retarded, and \$53 million (over 3 years) goes for training teachers of mentally retarded and handicapped children. An additional \$125 million, from a separate appropriation, will support still more activities in the research and treatment of retardation—university programs, personnel training, local facilities.

Even in its reduced form, the mental health campaign will be one of the largest public health projects begun in recent years. Construction aspects of the program will be administered through the Hill-Burton facilities of the Department of Health, Education, and Welfare, and the research aspects will be handled through NIH. The National Institute of Mental Health and the new Institute of Child Health and Human Development will be directly concerned with the program. Other institutes may be brought in later.

The other major piece of health legislation sought by Kennedy—federal aid in building and modernizing medical schools, and aid to medical students—was passed by Congress earlier this year. In the field of health there re-

mains of the President's plans only the old bugbear, the King-Anderson bill to extend Social Security to include hospital and nursing care for the elderly. Hearings on the bill opened last week in the House Ways and Means Committee, only a few days after a bipartisan National Committee on Health Care for the Aged issued a report calling for joint private and governmental financing of a medicare plan. The administration was silent on the committee's compromise recommendation, and the AMA immediately announced its opposition, but several Senators who have been backing the administration, including Clinton Anderson (D-N.M.), the bill's cosponsor, called it "quite significant," and "encouraging."

The prognosis for a compromise on medicare is bleak—but so are the chances of the King-Anderson bill in its present form. Two years ago the bill was defeated in the Senate, and though it was never brought to a vote in the House Ways and Means Committee, that committee rejected a similar proposal during the Eisenhower administration. The President's lieutenants are trying to line up support for the bill for an election-year vote, but it is generally thought that Kennedy's position in the Southern-dominated Ways and Means Committee, because of the civil rights issue, is no stronger than it was 2 years ago. Medicare is expected to suffer accordingly.—ELINOR LANGER

## Announcements

Belo Horizonte, Brazil, is the site of the recently established **Schistosomiasis** Snail Identification Center for the Americas. It is the first facility of its kind in the Western Hemisphere, and is located at Brazil's National Institute for Rural Endemic Diseases. The center was established because of the increasing incidence of "snail fever," or schistosomiasis, which afflicts an estimated five million persons in the hemisphere.

The U.S. Department of the Navy, Bureau of Ships, invites proposals for fundamental research in **hydromechanics**, to be conducted during the fiscal year starting 1 July 1964 under a program administered by the David Taylor Model Basin. Participation by both university and industrial laboratories is encouraged. The major fields

of interest are fluid mechanics, naval architecture, and underwater acoustics. A 16 March deadline has been announced; informal inquiries on the suitability of subjects will be accepted until 1 February. Information is available from S. F. Crump, contract research administrator, Hydromechanics Laboratory, David Taylor Model Basin, Washington.

## Grants, Fellowships, and Awards

The graduate school at the University of Wisconsin, Madison, has begun a postdoctoral program in **endocrinology**. Applications will be accepted throughout the year from persons in the United States who hold a Ph.D., M.D., or D.V.M. degree. The appointments carry a \$6500 annual stipend. Notification of the awards will be made 1 December and 1 April for participants to begin work either in July or September. (W. H. McShan, Birge Hall, Univ. of Wisconsin, Madison 6)

Fellowships are available from the Population Council for graduate level research in **demography**. Candidates must have a bachelor's degree, although they need not be candidates for an advanced degree at this time. Applicants may choose their own project and place of work, and there are no restrictions as to citizenship. The fellowships are for 1 year. They carry a \$2700 stipend plus tuition, university fees, and allowance for supplies. Postdoctoral fellows will receive higher stipends. Deadline for applications from the U.S. and Canada: *30 December*; from other countries: *10 January*. (Fellowship Secretary, Population Council, 230 Park Ave., New York 17)

The National Science Foundation has announced the availability of approximately 185 **postdoctoral fellowships**. The awards are for study and/or research in mathematics or the various areas of the social, physical, or biological sciences. Applicants must be U.S. citizens or nationals. Stipends are \$5500 a year, plus limited dependent and travel allowances. The fellowship work may be carried out in suitable non-profit U.S. or foreign institutions. Deadline for applications: *16 December*. (Fellowship Office, NAS-NRC, 2101 Constitution Ave., NW, Washington, D.C.)

Fellowships are available at the State University of New York Downstate Medical Center for a research program in **psychiatry**. The program starts next September and will lead to a Doctor of Medical Sciences degree. Applicants must be M.D.'s with 2 to 3 years' residency in psychiatry. Length of the program and amount of the stipend will vary with the recipients' background and experience. Deadline for applications: *1 February*. (Office of Admissions, Downstate Medical Center, 450 Clarkson Ave., Brooklyn 3, N.Y.)

Fellowships are available at Brown University for graduate work leading to a **Master of Arts in Teaching** degree. Participants in the program must be planning to teach mathematics, science, foreign languages, social studies, or English at the elementary or secondary school level. The program lasts 1 year and includes courses in professional education and in the participants' major field of study, along with a one-semester teaching internship. Fellowships are \$500, toward the \$1600 tuition, and an additional \$1800 for the semester of full-time teaching. Deadline for applications: *15 February*. (Registrar, Graduate School, Brown University, Providence 12, R.I.)

The S. F. Emmons fellowship in **economic geology** is available for the 1964-65 academic year. Applicants must present a suitable project to be carried out at a university with adequate facilities to insure its success. Deadline for applications: *1 February*. (C. H. Behre, Jr., Columbia University Geology Dept., New York 27)

The Mershon fellowships for study and research on **national security** are available at Ohio State University. Awards for graduate students carry stipends of \$3000 for the academic year; postdoctoral fellows will receive \$7500. The fellowships are renewable. Deadline for applications: *7 February*. (Dean of the Graduate School, Ohio State University, 164 W. 19th Ave., Columbus, Ohio 43210)

The Botanical Society of America is accepting applications for travel grants to the 10th international **botanical congress**, 3-12 August, in Edinburgh, Scotland. Applicants must be professional botanists, and U.S. citizens; membership in the Botanical Society is not

required. The grants are made possible through funds from the Ford Foundation. Deadline for applications: *15 February*. (R. E. Cleland, Dept. of Botany, Indiana University, Bloomington)

The California division of the American Cancer Society is offering scholarships in **oncology**. The grants are for recent Ph.D. recipients, from any nation; the sponsoring institution, however, must be in California. Grants for up to 5 years' work will be made directly to the sponsoring institution. (Medical and Scientific Director, American Cancer Society, California Div., 875 O'Farrell St., San Francisco 9)

### Courses

The Division of Radiological Health of the PHS will conduct a course in basic **radiological health**, 27 January to 7 February, followed by a course in **medical x-ray protection**, 10-14 February. Both training programs will be held at the Radiological Health Laboratory, Rockville, Md. (Mrs. E. Carroll, Training Branch, Radiation Health Laboratory, 1901 Chapman Ave., Rockville, Md.)

Georgia Institute of Technology will present a course in the methods of **operations research**, 20-24 January, in Atlanta. Applicants should have a bachelor's degree in engineering, science, or management, with at least a year of calculus. The major aim of the course is to help the participants gain a knowledge of formulation of mathematical models to describe the effectiveness of systems operations. The course will also cover waiting-line theory, linear programming, simulation, and decision theory. A registration fee of \$150 will cover books and supplies. Deadline: *13 January*. (Director, Dept. of Short Courses and Conferences, Georgia Institute of Technology, Atlanta)

Yale University's forestry school is offering a 2-year course in **forestry** for graduate students with no previous training in the subject. The introductory session is scheduled to begin 22 June. Several scholarships and assistantships, with annual stipends of \$850 to \$1200, are available. Deadline for applications: *1 February*. (Registrar, Yale School of Forestry, 205 Prospect St., New Haven, Conn. 06511)

### Scientists in the News

**Murray L. Barr**, head of the anatomy department at the University of Western Ontario, has been named to receive the 1963 Award of Merit from the Gairdner Foundation for his discovery of the fundamental differences between male and female cells. The \$25,000 award will be presented in Toronto on 29 November.

The foundation will present \$5000 annual awards to the following:

**Jacques Genest**, director of clinical research, Hotel Dieu Hospital, Montreal; for studies of the causes of high blood pressure.

**C. Walton Lillehei**, professor of surgery, University of Minnesota, Minneapolis; for development of techniques in open heart surgery.

**Irvine H. Page**, director of research, Cleveland Clinic Foundation, Ohio; for discoveries linking the kidney to high blood pressure.

**E. G. L. Bywaters**, professor of rheumatology, University of London; for studies of the clinical features of rheumatoid arthritis.

**Pierre Grabar**, director of the French National Cancer Research Institute, Paris; for contributions to knowledge of the identity of proteins which have aided in immunology and leukemia research.

**James Lindemann**, former chief of psychology services at the Veterans Administration Hospital, Salisbury, N.C., has become associate professor of medical psychology at the University of Oregon Medical School.

**Richard C. Lord**, professor and director of the Spectroscopy Laboratory at MIT, has been elected president of the Optical Society of America, effective 1 January.

**W. A. H. Rushton**, of Cambridge University, has been named first recipient of the Charles F. Prentice medal of the American Academy of Optometry, for "outstanding achievement in vision research." The award will be presented at the Academy's meeting 9 December in Chicago.

**Anton A. Benedetti-Pichler**, professor of analytical chemistry at Queen's College, Flushing, Long Island, N.Y., has received the 1963 Anachem award from the Association of Analytical Chemists.

**William E. Stephens**, physics professor at the University of Pennsylvania, has been appointed chairman of the physics department.

**A. A. Johnson**, formerly at the Imperial College of Science and Technology, London University, has been appointed director of research at Materials Research Corporation, Orangeburg, N.Y.

The Dexter Chemical Corporation, of New York, this year presented the \$1000 Dexter award to **Douglas McKie**, head of the department of history and philosophy of science at University College, London.

**Robert L. Vosburgh**, associate director of education in the department of psychiatry at the University of Pittsburgh, has been appointed chairman of the psychiatry department at West Virginia University, effective 1 January. Until then he will be visiting professor at the school.

The Optical Society of America's Frederic Ives medal has been presented to **Ralph A. Sawyer**, dean of the H. A. Rackham graduate school at the University of Michigan.

**Martin Lees**, former assistant cardiologist at Montreal Children's Hospital, has been appointed associate professor of pediatrics at the University of Oregon Medical School.

**Raymond P. Ahlquist**, co-director of the cardiovascular research and training program in the Medical College of Georgia's school of medicine, has been appointed associate dean of the school.

**Kaj L. Nielsen**, former mathematics professor at Butler University, has become director of systems analysis at Battelle Memorial Institute, Columbus, Ohio.

The new president of the American Phytopathological Society is **A. E. Dimond**, chief of the department of plant pathology and botany at the Connecticut Agricultural Experiment Station.

**Paul Schrode**, of the University of Pennsylvania medical school, has been appointed chief of the university's medical group at the Pahlavi Medical School, Shiraz, Iran, for a 2-year period.

**Arthur L. Samuel**, on leave from the Thomas J. Watson Research Center, Yorktown, N.Y., has been appointed visiting professor of electrical engineering at MIT, for the 1963-64 academic year.

The American Paleontological Society has named **Raymond C. Moore** to receive its first honorary medal. Moore, professor emeritus of geology at Kansas University, will be cited for his contributions to advancing knowledge in basic paleontology.

**A. E. M. Nairn**, of the University of Newcastle upon Tyne, England, has been named visiting professor in the geology department at Western Reserve University, Cleveland, Ohio, for the 1963-64 academic year.

**Harold J. Nicholas**, former associate professor of obstetrics at the University of Kansas Medical Center, has been appointed associate professor of biochemistry at St. Louis University, St. Louis, Mo.

**Walter L. Newton**, chief of the NIH laboratory of germfree animal research, has been named scientific director and associate chief for laboratory resources in the division of research services at NIH.

**Robert G. Snider**, former vice-president for development of the Graduate Research Center of the Southwest, Dallas, Texas, has been named executive director of the Commonwealth Industrial Research Corporation, University Park, Pa.

The new dean of the college of medicine at Wayne State University is **Ernest D. Gardner**, associate dean of the college since 1961.

The International Atomic Energy Agency has appointed **Nobufusa Saito** director of the division of isotopes. He is a chemistry professor at the University of Tokyo.

**Donald E. Gregg**, chief of the department of cardiorespiratory diseases at Walter Reed Army Institute of Research, has received the 1963 research achievement award from the American Heart Association, and a \$1000 honorarium. He was cited for his contributions to coronary circulation and his improvements in experimentation and design.

**Wendell M. Stanley**, professor of virology and director of the virus laboratory at the University of California, Berkeley, has received the American Cancer Society's medal for distinguished service in cancer control. The medal is the society's highest award.

The American Chemical Society's Paul-Lewis award in enzyme chemistry has been presented to **Marshall W. Nirenberg**, chief of the biochemical genetics section in the National Heart Institute laboratory of clinical biochemistry. He was cited for his work on the genetic code.

**David W. Talmage**, professor of microbiology at the University of Colorado, has been named chairman of the university's microbiology department.

**Paul B. Sears**, professor emeritus of conservation at Yale University, has received the first Richard Prentice Ettinger medal, and a \$1000 honorarium in a program sponsored by the Rockefeller Institute, the University of Pennsylvania, and New York University.

**Harold S. Mickley**, Ford professor of engineering at M.I.T., has been named director of the school's new Center for Advanced Engineering. Plans call for the center to admit its first students in the fall semester of 1964.

## Recent Deaths

**Hubert B. Goodrich**, 76; professor emeritus of biology at Wesleyan University; 26 September.

**Paul S. Hagen**, 49; professor of medicine at Minneapolis Veterans Hospital, Minnesota; in an automobile accident, 2 September.

**Olga B. Lepeshinskaya**, 92; Soviet authority on longevity and member of the U.S.S.R. Academy of Sciences; 3 October.

*Erratum:* The first paragraph of "Transformation of cells in vitro by viruses" by R. Dulbecco [*Science* 142, 932 (15 Nov. 1963)] is a repetition of paragraph 8. The article begins with paragraph 2.

*Erratum:* In the report "Rubella virus: Neutralizing antibody in commercial gamma globulin," by G. M. Schiff, J. L. Sever, and R. J. Huebner [*Science* 142, 58 (4 Oct. 1963)] there are two errors in Table 1. Under group E the second entry in column 5, showing the neutralizing antibody titer, should have been 512, not 12. Under group F the first entry in column 2, showing the source of gamma globulin, should have been P (for plasma) not C.