

ing summer to help in-service teachers who are taking summer work for advanced degrees. Awards were made to institutions in which curricula for master's degrees in teaching include substantial emphasis on subject content in science and mathematics.

In addition to its grant to improve teaching, the company will give \$290,000 to universities for fundamental research and \$165,000 for postgraduate fellowships in science and engineering, including grants-in-aid of \$15,000 each to ten universities and \$10,000 each to nine others. There are also summer research grants of \$1500 each to 20 universities. These are to enable younger staff members of university chemistry departments to undertake research of their own during the summer months.

Finally, the company is awarding 43 fellowships for the next academic year, 13 in chemistry, 16 in chemical engineering, six in biochemistry, four in mechanical engineering, and two each in physics and metallurgy. As in previous years, Du Pont is making the awards to the colleges and universities, with the detailed use of the funds left up to them.

Lafayette's Olin Hall

Lafayette College's new Olin Hall of Engineering Science, built with a \$1,250,000 grant from the Olin Foundation, was dedicated recently. It will house the physics, chemistry, and mathematics departments. The building contains 15 offices for 36 faculty members; two drafting rooms for 90 students; 15 laboratories for 295 students; ten classrooms for 340 students; a chemistry lecture room for 200 students, and a physics lecture room for 100 students.

Laryngoscope in Music

The laryngoscope has apparently found a useful place in the field of music. William A. C. Zerffi, a voice and speech teacher at the New School for Social Research, has reported that he uses the instrument to determine a singer's voice type.

Voice identification is usually left to the teacher's judgment. But because of bad singing habits or because of the human ability to imitate various sounds, a voice is sometimes misidentified. This can lead to improper training, bad singing habits, or even the shortening of a singer's career. These difficulties can be avoided by using the laryngoscope. The teacher simply looks at the length of the vocal cords. The shorter the cords, the higher the voice; thus a soprano has shorter cords than a contralto, and a tenor has shorter cords than a bass.

Technical Publication Index

A new *Index of Technical Publications* has been published by the National Advisory Committee for Aeronautics, 1512 H St., NW, Washington 25, D.C. The 222-page volume is the fifth supplement to the basic 1919-49 index.

The new index covers NACA research reports issued from June 1955 through June 1956, and reports published previously but declassified in the same period. The arrangement lists reports in numerical and chronological order of subjects, and includes alphabetical indexes of subjects and authors.

Aerojet Reactor Training Program

Aerojet-General Nucleonics, San Ramon, Calif., reactor manufacturer, has announced that it is establishing a reactor training program that will be available to industry, colleges and universities, the medical field, and power utilities. The new 1-week course will allow the participant to handle nuclear controls and reactor hardware, such as control rods and fuel elements, in addition to receiving instruction in nuclear reactor theory, operations, and licensing requirements. Students will participate in assembling a reactor and seeing it go critical.

G.E. Summer Fellowships at Stanford

The General Electric Educational and Charitable Fund for high-school teachers of mathematics, chemistry, or physics will establish a summer fellowship program at Stanford University. Fifty high-school mathematics teachers, to be selected by the university from high-school faculties in 14 western states, will have an opportunity to study new aspects of their subject as well as the application of mathematics to science and industry.

Paul W. Berg of Stanford's mathematics department will direct the program, which will consist of three courses: the first will survey number theory, projective geometry, and other fields bordering on high-school subjects; the second will deal with the fundamental concepts of the calculus; the third will be a seminar on the methods of problem solving. The seminar will attempt to help the teachers in their twofold job of challenging the curiosity of high-school students and developing in them a scientific temper.

In addition to classroom work, the fellows will take field trips to General Electric laboratory and manufacturing facilities in the San Francisco Bay area. Special lectures will be given by mem-

bers of the company's management, scientific, and engineering staffs.

Instruction will begin late in June and last 6 weeks, with the company paying all expenses, including transportation. This is the firm's sixth summer fellowship program and the first in a western university.

Drop in Shock Therapy

The Veterans Administration reports that electric and insulin shock treatment for mental illness has been reduced by an estimated 90 percent at VA mental hospitals through use of the new tranquilizing drugs. Ivan F. Bennett, chief of psychiatric research in the VA central office at Washington, D.C., made the estimate from a representative sampling of VA neuropsychiatric hospitals throughout the nation.

Microbiologists Join IGY in Antarctica

The U.S. National Committee for the International Geophysical Year has approved the Society of American Bacteriologists' project for a microbiological survey in Antarctica to be undertaken during 1957-58 in conjunction with the IGY program that is already planned for the region. This is the first officially recognized biological program to be included in this country's IGY plans. The National Committee considers that the project, "while nongeophysical in nature, offers the prospect of providing very important and significant scientific information concerning the microbiological aspects of Antarctica."

The SAB participation in the Antarctic program is being formulated by a committee composed of Claude E. ZoBell (chairman), Richard H. McBee, and Frederick D. Sisler. Inquiries should be directed to Dr. Claude E. ZoBell, Scripps Institution of Oceanography, La Jolla, Calif.

RCA Special Systems Department

The Radio Corporation of America has established a special systems and development department that will be devoted to the planning and development of electronic systems for future military needs. C. B. Jolliffe, vice president and technical director of R.C.A., has been appointed manager of the new department. Other executive posts in the department are as follows: A. W. Vance, chief systems engineer; G. L. Dimmick, chief development engineer; A. C. Gay, manager, projects engineering; and E. W. Pritchard, administrative engineer.

The new department will embrace the systems engineering groups of the David Sarnoff Research Center, the general engineering development section of the defense electronic products organization, and an R.C.A. advanced development engineering group which for more than a decade has concentrated on new electronic techniques and on mechanical and optical devices associated with electronics.

ONR Mathematics Associateships

Five universities have been selected to participate in a program sponsored by the Office of Naval Research that will provide research associateships in mathematics to postdoctoral candidates. Those taking part are the universities of Cornell, Tulane, Michigan, Washington, and Wisconsin.

Proposed Legislation

Of the many bills introduced in Congress, some have a special relevance to science and education. A list of such bills introduced recently follows:

S 200. Provide for control and eradication of water hyacinth and certain other aquatic plant growths. Long (D La.), Ellender (D La.) Senate Agriculture and Forestry.

HR 294. Amend Agricultural Act of 1949 and Agricultural Act of 1954 *re* brucellosis eradication program for fiscal year ending 30 June 1958. Laird (R Wis.) House Agriculture.

HR 347. Establish public use of national forest as policy of Congress. Metcalf (D Mont.) House Agriculture.

HR 377. Provide for compulsory inspection by U.S. Department of Agriculture of poultry and poultry products. Polk (D Ohio) House Agriculture.

S 191. Provide for loans to individuals for purpose of enabling them to obtain a college or university education. Langer (R N.D.) Senate Labor and Public Welfare.

S 197. Authorize an emergency 2-year program of federal financial assistance in school construction to states and local communities. McNamara (D Mich.) Senate Labor and Public Welfare.

HR 306. Provide program of grants and scholarships to encourage education and training in field of nursing. Lane (D Mass.) House Interstate and Foreign Commerce.

HR 390. Provide for loans to enable needy and scholastically qualified students to continue post-high-school education. Rodino (D N.J.) House Education and Labor.

HR 397. Encourage expansion of teaching and research in education of

mentally retarded children through grants to institutions of higher learning and to state educational agencies. Rodino (D N.J.) House Education and Labor.

S 201. Authorize comprehensive project for control and progressive eradication of salt-marsh and other injurious mosquitoes in coastal area of southwest Louisiana. Long (D La.), Ellender (D La.) Senate Public Works.

S 230. Amend title VI of Public Health Service Act, as amended, to make certain nonprofit corporations and associations eligible for federal aid under such title. Mundt (R S.D.) Senate Labor and Public Welfare.

HR 366. Amend Federal Food, Drug and Cosmetic Act for protection of public health, by prohibiting new food additives not adequately pretested to establish safe use under conditions of intended use. O'Hara (R Minn.) House Interstate and Foreign Commerce.

HR 383. Provide for establishment of Bureau of Older Persons within Department of Health, Education and Welfare; authorize federal grants to assist in development of operation of studies and projects to help older persons. Rhodes (D Pa.) House Education and Labor.

HR 483. Authorize comprehensive project for control and progressive eradication of salt-marsh and other injurious mosquitoes in coastal area of southwest Louisiana. Thompson (D La.) House Public Works.

HR 373. Establish Commission on the Aging. Ostertag (R N.Y.) House Education and Labor.

HR 307. Provide for establishment of U.S. Foreign Service Academy. Lane (D Mass.) House Foreign Affairs.

HR 491. Provide for appointment of an Assistant Secretary of State for International Cultural Relations. Thompson (D N.J.) House Foreign Affairs.

S 84. Establish Defense Cloud Modification Act of 1957. Case (R S.D.) Senate Armed Services.

HR 453. Amend Veterans' Readjustment Assistance Act of 1952 to provide education and training rights for persons enlisted in armed forces of U.S. during January 1955, but who were not on active duty on 31 Jan. 1955. Smith (D Miss.) House Veterans' Affairs.

S 37. Protect security of U.S. by preventing employment by U.S. of persons found to be disloyal to U.S. Malone (R Nev.) Senate Post Office and Civil Service.

S 195. Amend first section of act entitled "An act to prohibit payment of annuities to officers and employees of U.S. convicted of certain offenses," approved 1 Sept. 1954, to limit its application to cases involving national security. Langer (R N.D.) Senate Post Office and Civil Service.

HR 399. Authorize and direct Civil

Service Commission to make study of classification of and rates of basic compensation payable *re* technical, scientific and engineering positions in classified civil service. Rogers (D Colo.) House Post Office and Civil Service.

S 67. Provide for issuance of special postage stamp in honor of those leaders who pioneered in field of mental health. Carlson (R Kan.) Senate Post Office and Civil Service.

S 68. Provide for issuance of special postage stamp in honor of Dr. Samuel J. Crumbine, who pioneered in field of public health education. Carlson (R Kan.) Senate Post Office and Civil Service.

S 77. Establish Chesapeake and Ohio Canal National Historical Park and provide for administration and maintenance of a parkway in Maryland. Beall (R Md.) Senate Interior and Insular Affairs.

HR 392. Designate building to be constructed as principal office of Atomic Energy Commission under act of 6 May 1955 as Enrico Fermi Building, provide for establishment therein of appropriate memorial to Fermi. Rodino (D N.J.) Atomic Energy.

HR 435. Prohibit discrimination because of race, color, religion, national origin or ancestry. Roosevelt (D Calif.) House Education and Labor.

S 32. Direct Secretary of Interior to convey certain public lands in Nevada to Colorado River Commission of Nevada, acting for Nevada. Malone (R Nev.) Senate Interior and Insular Affairs.

S 258. Establish U.S. Commission on Aging and Aged. Potter (R Mich.) Senate Labor and Public Welfare.

HR 424. Establish Commission on Civil Rights in executive branch of government. Roosevelt (D Calif.) House Judiciary.

S 86. Provide for experimental research program in cloud modification. Case (R S.D.) Senate Interstate and Foreign Commerce.

HR 370. Provide that standard time be measure of time for transaction of business in interstate and foreign commerce. O'Hara (R Minn.) House Interstate and Foreign Commerce.

HR 478. Provide that one floating ocean station be maintained at all times in Gulf of Mexico to provide storm warnings for states bordering on Gulf of Mexico. Thompson (D La.) House Merchant Marine and Fisheries.

HR 481. Authorize comprehensive project for control and progressive eradication of obnoxious aquatic plant growths from navigable waters. Thompson (D La.) House Public Works.

S 7. Provide for establishment and operation of laboratory for study of utilization of soil and water resources of southeastern U.S. Thurmond (D S.C.) Senate Agriculture and Forestry.