

necessary for light emission. This compound, called ATP, is present in all living things and plays a part in the utilization of energy.

McElroy for a number of years has been using large quantities of fireflies' tails in his efforts to learn how energy is liberated. Through this work with fireflies, he discovered that luciferin, a compound in the firefly's tail or lantern, when combined with ATP and the enzyme luciferase, produces light. The amount of light varies with the amount of ATP; hence, the combination of small amounts of tissue of the lantern with a fixed amount of luciferin and luciferase will determine how much ATP is in the tissue. McElroy will use clams in this study for the first time.

New Nuclear Laboratory

The \$50 million atomic research laboratory in Middletown, Conn., where the Air Force intends to develop a nuclear aircraft engine, received its first employees last month. Pratt and Whitney Aircraft Corporation, which will operate the laboratory for the Air Force, has moved equipment and 500 employees who have been working on the project from South Windsor, Conn., into the Maromas section of Middletown. The Air Force facility, known as CANEL, covers a 1200-acre tract in an isolated area bordering the Connecticut River. Under construction for almost 2 years, the plant will employ about 3500 when it goes into full operation late this year.

Educational TV

The Fund for the Advancement of Education (New York) has announced the establishment of the National Program in the Use of Television in the Public Schools, for which the fund is making available \$986,000. Taking part in this program initially are eight large cities—Atlanta, Cincinnati, Detroit, Miami, Norfolk, Oklahoma City, Philadelphia, and Wichita—and two states, Nebraska and Oklahoma. Grants have been made to the public school authorities in these cities and states on a matching dollar basis to begin regular classroom instruction over television in the elementary and high schools. In each case television teaching to large classes will begin next September.

The fund has over the past 2 years supported a number of experiments in the use of television in the public schools—notably in Hagerstown (Md.), St. Louis, Pittsburgh, and Chicago. These demonstrations have already shown that a teacher can extend his services through the use of television, that pupils learn at

least as much in television classes as with conventional instruction, that television saves a great deal of time and thus permits teachers to give pupils more individual attention. The National Program in the Use of Television in the Public Schools will try to find out whether the experience in a few communities can be applied to most American schools.

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.

HR 7431. Make an appropriation to National Science Foundation to construct and equip a geophysical institute in Territory of Hawaii. Burns (D Hawaii) House Appropriations.

HR 7245. Authorize Secretary of Army, Secretary of Navy, and Secretary of Air Force to make grants to educational institutions for construction of military and naval science buildings. Rabaut (D Mich.) House Armed Services.

HR 7171. Create a Federal Advisory Council of Health in Executive Office of the President. Wainwright (R N.Y.) House Interstate and Foreign Commerce.

HR 7388. Regulate interstate distribution and sale of packages of hazardous substances intended for household use. Curtis (R Mo.) House Interstate and Foreign Commerce.

H Res 243. Express sense of House that Secretary of Health, Education and Welfare should investigate the Santa Cruz plan for rehabilitation of hospitalized mental patients. Gubser (R Calif.) House Interstate and Foreign Commerce.

S J Res 85. Amend act approved 7 Aug. 1935 (P.L. 253) concerning U.S. contributions to International Council of Scientific Unions. Green (D R.I.) (by request) Senate Foreign Relations.

HR 7167. Amend section 1314 of act of 7 Aug. 1953 (P.L. 207) 83rd Congress (67 Stat. 418) *re* authority of Federal officers and agencies to withhold information and limit availability of records. Hoffman (R Mich.) House Appropriations.

HR 7172. Amend section 3 of chapter 324 of act of 11 June 1946 (60 Stat. 238) to clarify and protect right of public to information. Dawson (D Ill.) House Judiciary.

S 1949. Facilitate the administration of the public lands. Murray (D Mont.) (by request). Senate Interior and Insular Affairs.

S 2119. Expedite utilization of television facilities in our public schools and colleges and in adult training programs. Magnuson (D Wash.) Senate Interstate and Foreign Commerce.

S 2039. Clarify the requirements *re* performance of labor imposed as a condition for the holding of mining claims on Federal lands pending the issuance of patents therefor. Bible (D Nev.) Senate Interior and Insular Affairs.

HR 7253. Amend section 27 of act entitled "An act to promote the mining of coal, phosphate, oil, oil shale, gas and sodium on the public domain" to increase the aggregate acreage of coal leases that may be held by one person in any one state. Thomson (R Wyo.) House Interior and Insular Affairs.

S 2072. Establish a Chiropractic Section in Medical Service Corps of Army. Case (R S.D.) Senate Armed Services.

HR 7542. Authorize Secretary of Navy to take possession of naval oil shale reserves and to experiment in extraction of synthetic liquid fuels from oil shale in interest of national security. Staggers (D W.Va.) House Armed Services.

HR 7444. Amend Veterans' Readjustment Assistance Act of 1952 to make educational benefits provided for therein available to all veterans, whether or not they served during a period of war or of armed hostilities. Beckworth (D Texas) House Veterans' Affairs.

S 2077. Direct Secretary of Department of Interior to undertake a survey in order to assist in promoting the production of concentrated iron ore and steel in southern Appalachian area. Talmadge (D Ga.), Russell (D Ga.), Thurmond (D S.C.), Johnston (D S.C.), Sparkman (D Ala.), Hill (D Ala.), Kefauver (D Tenn.), Ervin (D N.C.), Scott (D N.C.).

Scientists in the News

H. BURR STEINBACH, professor of zoology at the University of Minnesota, has been appointed chairman of the department of zoology at the University of Chicago, effective 1 July. He succeeds the late Carl R. Moore. Steinbach is well known for his work in bioelectric phenomena, injury potentials, the sodium-potassium equilibrium of cells, ontogenesis of enzyme systems in chicks, and the enzyme systems of cellular inclusions.

HARVEY BROOKS, investigator of nuclear power and solid-state physics, will become dean of engineering and applied physics at Harvard University on 1 Sept. Brooks, who is Gordon McKay professor of applied physics, is in England this year conducting research as a Guggenheim fellow at the Cavendish Laboratory, Cambridge.

He will succeed JOHN H. VAN VLECK, Hollis professor of mathematics and natural philosophy, who plans to resume his research in mathematical