

ture of a producing oil or gas field. Williams (R Del.) Senate Interior and Insular Affairs.

S 334. Amend sec. 27 of Mineral Leasing Act of 25 Feb. 1920, as amended (30 U.S.C., sec. 194), to promote development of phosphate on public domain. Murray (D Mont.), Mansfield (D Mont.), Scott (D N.C.) Senate Interior and Insular Affairs.

S 342. Implement 10-year Mission 66 plan undertaken for public benefit re rehabilitation, improvement, and preservation of National Park System. Watkins (R Utah) Senate Interior and Insular Affairs.

HR 595. Amend Atomic Energy Act of 1954 re transfer of restricted data for military purposes. Cole (R N.Y.) Atomic Energy.

HR 601. Provide rewards for information re illegal introduction into U.S., or illegal manufacture or acquisition in U.S., of special nuclear material and atomic weapons. Cole (R N.Y.) Atomic Energy.

HR 576. Authorize Secretary of Interior to construct, operate, and maintain in upper Snake River Valley, Idaho and Wyoming, the Narrows federal reclamation project and a regulating reservoir below Palisades Dam and Reservoir. Budge (R Idaho) House Interior and Insular Affairs.

Scientists in the News

H. POLAK, former scientific attaché at the Netherlands Embassy in Washington, D.C., joined the Atomics International Division of North American Aviation Inc., Los Angeles, Calif., on 1 Feb.

THOMAS GOLD, chief assistant to the Astronomer Royal of Great Britain for the past 4 years, became a professor of astronomy at Harvard University on 1 Feb. Recently he has been serving as a visiting professor at Cornell University, where he has been teaching cosmic radiation and radio astronomy.

Gold is known for theoretical and instrumental studies in a wide range of astronomical phenomena. He is one of England's Cambridge group of cosmologists which put forward the thesis of continuous creation of matter in the universe. He also demonstrated the possibility that dark regions on the moon are great dust layers rather than massive flows of lava. In earth studies, he worked out the mechanics of a possible shifting of the north and south poles. The shifting of the poles is one hypothesis advanced to explain how ice once covered regions now in the tropics.

Gold's latest work is a detailed analysis of the burst of cosmic radiation,

largest on record, that resulted from the solar flare of 23 Feb. 1956. This study includes cosmic radiation, and ionospheric, magnetic, and solar data.

Rear Admiral RICHARD E. BYRD has canceled plans to join the American expedition in the Antarctic so that he may remain in Washington to supervise preparation of legislation which would set up a presidential commission to coordinate all polar operations. The proposed commission, a plan for which has been drafted by James E. Mooney, an associate of Byrd's, would serve as a central clearinghouse for such explorations.

WINDSOR C. CUTTING has resigned as dean of the Stanford University Medical School. No reason was given in the university's announcement, which was made public on 23 Jan.

DOUGLAS H. EWING, vice president of RCA Laboratories, has been named vice president, research and engineering, of the Radio Corporation of America. He will be responsible in his new position for RCA Laboratories and RCA's Engineering Services. The new appointment was one of several announced in RCA's research and engineering organizations. The others follow.

JAMES HILLIER, who has been chief engineer, RCA Commercial Electronic Products, has been named general manager, RCA Laboratories.

GEORGE H. BROWN, who has been director of the Systems Research Laboratory, RCA Laboratories, is now chief engineer, RCA Commercial Electronic Products.

HUMBOLDT W. LEVERENZ, who has been director of the Physical and Chemical Research Laboratory, RCA Laboratories, has been appointed assistant director of research, RCA Laboratories. All of the new appointees, with the exception of Brown, will make their headquarters at the David Sarnoff Research Center, Princeton, N.J. Brown will have his office in Camden, N.J.

NICHOLAS J. HOFF, professor and head of the aeronautical engineering department at Polytechnic Institute of Brooklyn, N.Y., has been appointed professor and executive head of the new Division of Aeronautical Engineering at Stanford University, effective 1 Sept. Aeronautical engineering, heretofore in the university's department of mechanical engineering, will be established as an autonomous division in the School of Engineering.

DAVID H. MORGAN, former president of Texas Agricultural and Mechanical College, has been appointed director

of college relations for the Dow Chemical Company. One of his major functions will involve liaison with institutions of higher learning to encourage industry-education cooperation for the advancement of science and engineering and to stimulate student interest in the various scientific fields.

HERBERT P. BROIDA has been selected to head the newly organized Free Radicals Research Section at the National Bureau of Standards. ARNOLD M. BASS has been named assistant chief of the section, and JAMES W. MOYER is consultant. The section will serve as the central laboratory for a national program of basic research in free radicals. The object of the program is to increase fundamental knowledge of the formation, properties, and storage of these highly reactive molecular fragments.

Broida will be serving in a dual capacity as chief of the new section and as technical coordinator of research on free radicals throughout the bureau. In the latter area, he will be responsible for the fostering of interest on the part of individuals in the various NBS technical divisions, furnishing of technical advice to those undertaking free radicals research, and maintenance of a comprehensive information and communication service on this program.

Recipients of the 1956 Nash conservation awards have been announced by the American Motors Corporation. Ten professional workers, selected as typifying America's professional conservationists, each will receive \$500 and a bronze plaque. In addition, plaques will be awarded to 10 nonprofessional conservationists, whose contributions to the conservation of natural renewable resources (soil, water, forest, fish, and wildlife) were made as acts of good citizenship. The winners were selected by a committee of conservationists from nominations submitted by officials of state, federal, and private conservation agencies.

Winners in the professional class are as follows:

MARSHALL T. AUGUSTINE, Annapolis, Md., work unit conservationist for the U.S. Department of Agriculture's Soil Conservation Service, for his enthusiasm and leadership in promoting sound soil and water conservation practices in Anne Arundel County, particularly in the combatting of soil erosion.

RICHARD J. DORER, St. Paul, Minn., supervisor of the Bureau of Game, Minnesota Department of Conservation, for his long years of effort to create and preserve proper habitat for wildlife, and particularly for his part in launching the "Save Minnesota's Wetlands" campaign.

CHARLES D. KELLEY, Montgom-

ery, Ala., for his leadership in organizing resistance to the damming of the Tombigbee River, which would have destroyed large areas of wetlands and wildlife habitat, and the development of a compromise program of river improvement that left wildlife, forest, and recreational values unimpaired. Now with the Alabama Department of Conservation, Kelley was, at that time, secretary of the Alabama Wildlife Federation.

BERNARD F. MANBEY, Berkeley, Calif., regional chief of lands of the National Park Service, Region Four, for his outstanding administrative skill in connection with the establishment of Kings Canyon National Park, and his extraordinary accomplishments in the acquisition of privately held lands within the boundaries of National Park Service areas.

LEON J. McDONALD, Stillwater, Okla., assistant state conservationist of the Soil Conservation Service, for his outstanding work in spreading information about soil conservation, through speaking engagements, brochures, and magazine articles. Altogether, McDonald has addressed more than 500,000 people at nearly 2000 meetings, and has demonstrated unusual ability to work with diverse groups of people in furthering the cause of soil conservation.

ROGER T. ROBINSON, Anchorage, Alaska, operations supervisor with the Department of the Interior's Bureau of Land Management, Area Four, for his untiring efforts since 1940 to stop the careless waste of Alaska's forest resources by fire and exploitation, through the creation of an effective fire-fighting organization, and the dissemination of fire-prevention educational material.

J. CLARK SALYER II, Washington, D.C., chief of the Branch of Wildlife Refuges, U.S. Fish and Wildlife Service, for his work in building a system of wildlife refuges and his determined vigilance in defending the integrity of the refuges against threats of destructive exploitation.

JAMES K. VESSEY, Milwaukee, Wis., assistant regional forester with the U.S. Forest Service, for his work in developing high-standard public forest management programs and encouraging and initiating similar programs on state and private lands, and particularly for his ability to work harmoniously with people at every level and viewpoint.

RICHARD L. WEAVER, Ann Arbor, Mich., associate professor of conservation and education at the University of Michigan, for his two decades of leadership in the field of conservation education, as a graduate student, teacher, state advisor, officer of many national conservation organizations, and professor of conservation.

NORMAN G. WILDER, Dover, Del.,

director of conservation for the Delaware Board of Game and Fish Commissioners, for his work in developing a soundly conceived basic state-wide program of wildlife management, and particularly for his successful work in wetlands acquisition, development, and management.

Winners in the nonprofessional class are as follows:

L. C. BINFORD, attorney of Portland, Ore., for his work as a local officer of the Izaak Walton League and particularly for his part in inaugurating the "Red Hat Day" program for improving relations between sportsmen and land owners through education of sportsmen to their basic responsibilities.

EDWIN R. CONKLIN, high-school teacher of Butler, N.J., for his work in promoting a "junior sportsman" program of training in firearms safety and fundamentals of conservation, in the Butler High School.

HOYT FERM, junior high-school instructor of Iron River, Mich., for his successful integration of conservation education in his school science classes.

PAUL H. FLUCK, physician of Lambertville, N.J., for his series of volunteer bird-banding lectures and demonstrations given at Washington Crossing Park, N.J. Fluck's programs have been seen by more than 40,000 visitors since May 1952.

WALTER A. FORRED, clergyman of Vermillion, S.D., for his help in developing and promoting the "North Dakota Plan" of rural church action in support of sound soil and water conservation measures.

HERMAN FORSTER, attorney of New York, N.Y., for his work as an officer and a tireless leader of the New York State Conservation Council since 1939, during which period he helped to make this sportsmen's federation one of the nation's most outstanding in terms of sound conservation policies.

ETHEL L. LARSEN, clubwoman of Manistee, Mich., for her many years of work in promoting sound conservation principles as an officer and conservation consultant to the General Federation of Women's Clubs.

JOHN R. LYONS, research consultant of San Diego, Calif., for his work as secretary of the Citizens Forestry Study Group of San Diego County, which he helped to form in 1951 as a means of educating citizens in forest fire prevention.

FREDERICK W. STURGES, businessman of Macon, Ga., for his work in organizing the Georgia Conservation League, Inc., a statewide federation of sportsmen's clubs affiliated with the National Wildlife Federation.

LES WOERPEL, businessman of Stevens Point, Wis., for his remarkable work as executive secretary of the Wis-

consin Federation of Conservation Clubs, particularly his editing and publishing of *News and Views*, a bulletin on conservation information that he sends to all members of Wisconsin conservation clubs.

Recent Deaths

WILLIAM H. BOEHM, New York, N.Y.; 88; former dean and professor of engineering at Clemson College; 23 Jan.

HARRY S. BUECHE, Newark, Del.; 50; associate professor of electrical engineering at the University of Delaware; 27 Jan.

CARLETON E. DAVIS, Merion, Pa.; 87; engineer with the Isthmian Canal Commission in 1904-05 who worked in the program of eliminating yellow fever and preparing for the building of the canal; 29 Jan.

HELEN MILES DAVIS, Washington, D.C.; 61; editor of *Chemistry*, member of staff of Science Service, and writer who specialized in the popularization of science; 25 Jan.

JOSEPH W. FAY, Villa Park, Ill.; former research engineer for the Western Electric Company; 28 Jan.

WILLIAM D. FROST, Madison, Wis.; 89; professor emeritus of bacteriology at the University of Wisconsin and one of the founders of the medical school at the university; 25 Jan.

GEORGE D. LOUDERBACK, Berkeley, Calif.; 82; professor emeritus of geology, former chairman of the department and dean of the College of Letters and Science at the University of California; 27 Jan.

ENOCH RECTOR, New York, N.Y.; 94; inventor who worked with Thomas A. Edison on the phonograph and methods of sound reproduction and on motion pictures; 26 Jan.

ROBERT NEAL RUDMOSE-BROWN, Sheffield, England; 77; professor emeritus of geography at Sheffield University; naturalist on the Scottish National Antarctic Expedition aboard the *Scotia* in 1902-04; 27 Jan.

KIYOSHI SHIGA, Sendai, Japan; 87; bacteriologist considered to be one of the leaders in the introduction and development of modern medicine in Japan; 25 Jan.

JACOB B. SHOHN, West Orange, N.J.; 59; president of the Meta Chemical Corporation and a leader in industrial development in Israel; 24 Jan.

WILLIAM R. WALLACE, Salt Lake City, Utah; 91; former chairman of the Utah Water Storage Commission who was known as "dean of reclamation" in the western states; 29 Jan.

SIDNEY Y. WHITE, Jackson Heights, N. Y.; 55; consulting electrical engineer; 23 Jan.