

ing security firings makes no mention of sensitiveness and policy-making. The section of the Security Act that the majority cited as the key one reads:

"The provisions of this act shall apply to such other departments and agencies of the Government as the President may, from time to time, deem necessary in the best interests of national security."

Prettyman and Bastian felt that, in the light of this section, the President's 1953 executive order extending the security program to all Federal agencies was justified. It is this 1953 order that permits summary dismissal of any Federal worker for security reasons.

In his dissent, Chief Judge Henry W. Edgerton said of the President's order:

"I think this blanket extension [of the President's] is unauthorized and invalid. Congress had specified some agencies that have something to do with national security. Committee reports describe them as 'sensitive' or concerned with 'vital matters' affecting national security. . . .

"Evidently Congress thought some other agencies might likewise be concerned with national security. Accordingly, Congress authorized the President to extend the act. There is, I think, not the slightest reason for supposing that Congress intended to authorize the blanketing in of all agencies."

Edgerton also pointed out that Cole's agency head did not make a determination that the firing was "necessary or advisable in the interests of the national security," as is authorized by the security act. Cole's superior found only that his continued employment "is not clearly consistent with the interests of national security," a yardstick which Edgerton felt the President laid down in his executive order without authority. The dissenting opinion held that this concept of the President's "differs vitally from the 'necessary or advisable' test that Congress prescribed."

News Briefs

■ A group of experts from 13 countries, called together by United Nations Educational, Scientific and Cultural Organization, met 23-24 June at UNESCO headquarters in Paris to discuss problems raised by the rapidly increasing use of radioisotopes. Pierre Auger, director of the UNESCO department of natural sciences, was chairman of the conference, which made several recommendations. First, it asked that UNESCO study various national procedures for the safe transport of radioisotopes and draft a set of international regulations. Next, it asked that UNESCO collect and evaluate existing regulations for waste disposal and, in collaboration with qualified scientific consultants, suggest international stand-

ards. In connection with waste disposal, the group noted that the problem has not only dangerous implications but that it is also extremely difficult to deal with, partly because of the widespread lack of agreement among the experts themselves.

On the basis of UNESCO's experience in drawing up and obtaining the adoption by a number of countries of a system facilitating the rapid transit of delicate measuring instruments, the group urged that UNESCO undertake to establish a similar system for the rapid customs clearance of radioisotopes. The meeting participants held that such clearance is essential for the effective utilization of radioisotopes, especially those with a very short half-life. Finally, the experts asked that UNESCO collect and publish as soon as possible all available information on labelled molecules and recommend ways for closer international collaboration in the production and use of these tracers. It was pointed out that the synthesis of certain molecules is too great a burden for a number of less well-equipped countries.

Any international regulations drawn up by UNESCO as a result of these recommendations are to be circulated to the member states and to the specialized agencies concerned. A second meeting of the group will take place in Paris, 13-14 Oct. Howard A. Robinson, special assistant to the United States Ambassador to France, is this country's representative.

■ The Atomic Energy Commission has declassified all technical information on current extraction processes for recovering uranium from uranium-bearing materials to produce unrefined uranium concentrates. The declassification is expected to benefit the commission's program for developing more efficient methods of processing uranium ores by encouraging the participation of private enterprise. The declassification action does not include information relating to the refinement of uranium concentrates into highly purified forms, nor does it include technical information on any new and important extraction processes that may have been developed.

Unrefined uranium concentrates are produced in 12 processing plants in Colorado, Utah, New Mexico, Florida, and Illinois. Four additional plants are under construction. With one exception, all of the plants are privately owned and operated.

■ The pigment that tints the eyes of one species of euphausiid has recently been isolated by Elizabeth K. Boden, assistant research biologist at the University of California's Scripps Institution of Oceanography. This is the first time a photosensitive pigment has been extracted from the eyes of any of the arthropods.

Boden proposes the name *euphausiopsin* for the new pigment.

Euphausiopsin was found to be linked with vitamin A₁, already known to be present in particularly high concentrations in the eyes of euphausiids. A₁ is the vitamin in the eyes of human beings that makes it possible to see in near darkness.

Tests have indicated that the euphausiopsin may be especially sensitive to blue-green light. The euphausiid swims up and down in the ocean in apparent response to the intensity of sunlight, always being found at a level where the light maintains a constant dim value. Often these creatures form part of a deep scattering layer.

Boden has described her discovery in a paper that appeared in a recent issue of *Nature*. Her work has received support from the Office of Naval Research.

■ A new disease, pancreatic necrosis, is killing up to 80 percent of the young brook trout in three West Virginia hatcheries, placing the state's hatchery program in danger. The disease, unknown until last year, affects fingerling trout, causing them to whirl violently.

The malady appeared first at the Leetown, W. Va., Fish and Wildlife Service Station in January 1954; by July 1954, it had spread to hatcheries at Dorcas and Marlinton. S. F. Snieszko of the Leetown Microbiological Laboratory, Kearneysville, and his colleagues E. M. Wood and W. T. Yasutake, reported the disease in the July *Archives of Pathology*.

■ A new signaling system for telephone dialing, a polytonic coder, has been developed by C. A. Lovell, J. H. McGuigan, and O. J. Murphy of Bell Telephone Laboratories, New York. A test model of the signaler can send 100 digits a second reliably over almost all telephone connections. The device may eventually make it possible to discard telephone dialing.

The term *polytonic* was coined because the system uses five separate frequencies; each digit is represented by a different two-tone combination.

Scientists in the News

IMMANUEL ESTERMANN, deputy science director for coordination and director of the material sciences division of the Office of Naval Research, Washington, D.C., has received the 1955 Pittsburgh physics award. He was honored for his contributions to fundamental physics while he was a professor at Carnegie Institute of Technology. With assistance from ONR and from the Research Corp., he organized and developed the low-temperature laboratory at C.I.T.

M. S. THACKER, director of the Indian Institute of Science, Bangalore, was appointed director of the Council of Scientific and Industrial Research in New Delhi, effective 3 Aug. In the Republic Day honors last January, Thacker was the recipient of the *Padma Bhushan*, an award for outstanding achievement that is presented by the Government of India.

FRANK W. PUTNAM, formerly a staff member of the Argonne Cancer Research Hospital in Chicago, Ill., has been named to head the department of physiological chemistry of the University of Florida College of Medicine, effective 1 Sept.

The Lebanese Republic awarded a citation and a medal of Knight of the Order of Cedars to HOBART A. REIMANN for medical services to the people of Lebanon during his tenure as visiting professor of medicine at the American University of Beirut.

CHARLES E. LAPPLE, former associate professor of chemical engineering at Ohio State University, and RUDOLF H. THIELEMANN, former development metallurgist for the Pratt and Whitney Aircraft Corp., have joined the chemical and metallurgical engineering section of Stanford Research Institute's physical sciences division. Lapple, as a senior scientist, will organize, coordinate, and direct research activities in the fields of fine-particle technology and chemical engineering. He is a specialist in dust and fume collection, abatement of atmospheric pollution, particle sizing, and the handling of fluids.

Thielemann, who has been appointed senior metallurgical engineer, is a specialist in high-temperature alloys, stress, titanium, and nuclear reactor metallurgy.

WILL E. EDINGTON, former head and now emeritus professor of mathematics and astronomy at DePauw University, has been appointed to the Margaret Pilcher professorship of mathematics at Coe College, Cedar Rapids, Ia., for 1955-56.

F. J. ALLEN of the Purdue University chemistry department has been granted leave for the coming academic year. He will devote part of his time to visiting chemical industries and chemistry departments in colleges and universities throughout the country and part to study at California Institute of Technology and at Oregon State College.

GEORGE C. WEBSTER, former senior research associate in the division of biology, California Institute of Technology, has been appointed associate professor of agricultural biochemistry at Ohio State University.

ELWOOD A. SHARP, authority on blood diseases and director of clinical investigation for Parke, Davis and Co. since 1929, has been promoted to medical assistant to the firm's president, Harry J. Loynd. ELMORE C. VONDER HEIDE, who became associate director of the Clinical Investigation Department in 1937, will succeed Sharp. The department medically evaluates new drugs by means of field tests that are carried out all over the world.

ARTHUR GEORGE ZUPKO, formerly a professor at the St. Louis College of Pharmacy and Allied Sciences, has been appointed associate dean of the Brooklyn College of Pharmacy, Long Island University.

HENRY T. NAGAMATSU, an authority on hypersonic flow problems and for the past 6 years director of hypersonic wind-tunnel research at California Institute of Technology, has been named to the staff of the General Electric Research Laboratory in Schenectady, N.Y. He will conduct hypersonics research in the mechanical investigations section of the chemistry research department.

GEORGE A. AGOSTON, former senior research engineer with California Institute of Technology, has joined the physical sciences division of Stanford Research Institute as a senior physicist. He will conduct research on combustion and fluid dynamics.

BRIAN MACMAHON, lecturer in social medicine at the University of Birmingham, England, has been appointed associate professor of environmental medicine and community health at the State University of New York College of Medicine in Brooklyn. Much of MacMahon's research has involved the study of environmental influences as a cause of congenital defect, notably pyloric stenosis, congenital heart disease, and malformations of the nervous system.

BERTHA A. KLIEN, who previously has been in private practice in Chicago, Ill., has been appointed associate professor of ophthalmology in the University of Chicago department of surgery.

MARSHALL C. HARRINGTON, head of the physics department at Drew University, has resigned to accept a research post with the U.S. Navy at its David Taylor Model Basin in Carderock, Md. He has been assigned to the basin's hydromechanics laboratory, where he will work in the viscous flow section of the fluid dynamics branch. His research activities will be chiefly in theoretical physics, a subject in which he will also teach a course at the University of Maryland.

HERBERT RATTNER, professor and chairman of the department of dermatology at Northwestern University, has been appointed editor-in-chief of the *American Medical Association Archives of Dermatology*.

The Acoustical Society of America has awarded its 1955 gold medal to FLOYD A. FIRESTONE of Dobbs Ferry, N.Y., "in appreciation of his outstanding contribution to the society and to the science of acoustics." A past president of the society, Firestone devised the mobility analogy and invented the ultrasonic reflectoscope.

J. E. CUMMINS has just taken up the duties of scientific attaché for Australia at the Australian Scientific Liaison Office, in Washington, D.C. Previously, for a period of 6 years, he served as chief scientific liaison officer in London. His particular interests are in forest products and in certain aspects of scientific documentation. Cummins succeeds E. J. DRAKE, who has returned to Australia.

CHARLES H. EADES, JR., assistant professor of chemistry at the University of Tennessee Medical Units since 1948, has resigned to join the staff of Meade Johnson Research Laboratories at Evansville, Ind.

The following are among those who have received honorary doctoral degrees this year.

Amherst College: W. MONTAGUE COBB, chairman of the department of anatomy at Howard University Medical School, and a vice president of the AAAS and chairman of its Section H—Anthropology.

Harvard University: GEORGE B. KISTIAKOWSKY, professor of chemistry at Harvard University.

Missouri School of Mines and Metallurgy: F. STILLMAN ELFRID, executive vice president of Olin Mathieson Chemical Corp.

Michigan College of Mining and Technology: MELVIN C. CALVIN, professor of chemistry at the University of California, Berkeley.

Case Institute of Technology: KENT R. VAN HORN, director of research, Aluminum Co. of America.

University of South Dakota: MAURICE NELLES, director of research and diversification, Technicolor Motion Picture Corp.

Necrology

FRANK BERNER, New York, 60, psychoanalytic specialist, former associate at the College of Physicians and Surgeons, 4 Aug.