

has special competence with respect to the question of mineral supply and demand. In Interior, of course, there are the Bureau of Mines and the U.S. Geological Survey (USGS). In Commerce, there is the Bureau of Domestic Commerce which has within it an office of basic materials made up of people assigned to keep track of industry's requirements for various minerals, fuels, and other resources. Under Secretary Siciliano observes, however, that "We [in Commerce] recognize that Interior has the lead role here." According to Siciliano, Secretary Stans's announcement of the commission study, which he made in Denver before the American Mining Congress, would have been made by Secretary of the Interior Hickel had he been available.

The study will give the Geological Survey a chance to press harder for funds with which to expand its investigations of mineral reserves and other resources, both on land and on the continental shelf. Only last June, William T. Pecora, director of the USGS, in a speech before a campus audience, said that "the pace of doing this kind of work has slowed . . . and I predict that our society will suffer for it because decisions will be made without background information."

The study will almost certainly call not only for an increased effort in the development of mining technology, but also for a rejuvenation of education in mining engineering. Last year, Assistant Secretary of the Interior Hollis Dole, testifying before the Senate Interior Committee, said the mineral sciences were being badly neglected. In 1969, he said, American institutions would graduate only 110 mining engineers, and many of those would be foreign students who would return to their home countries. Between 1962 and 1967, the number of institutions with accredited undergraduate programs in mining had declined from 26 to 17, and half of these programs had only a half dozen students or fewer. The situation at the graduate level Dole found similarly discouraging.

To this a footnote was added later, however, by the International Institute for Resource Economics. In a letter to the Interior Committee, the institute said that student enrollment in mining engineers with 10 years of experience, ing engineers were grossly underpaid. It reported that in a 1968 listing of median salaries for various kinds of engineers with 10 years of experience, mining engineers were at the bottom, with a median salary of \$11,750.

Because of the increasing need to mine and process the less accessible or lower grade ores, improvement of mining education and technology is seen as a key to avoiding—or at least long delaying—a situation in which certain industrial minerals are extremely scarce and costly. This view was expressed in a sympathetic report last year on the Allott bill by Lee DuBridge, then the President's Science Adviser and director of the Office of Science and Technology.

—LUTHER J. CARTER

APPOINTMENTS



E. L. Boyer



C. A. LeMaistre

Ernest L. Boyer, vice chancellor, State University of New York System, appointed chancellor. . . . **Charles A. LeMaistre**, deputy chancellor, University of Texas System, appointed chancellor. . . . **Thomas C. Cheng**, professor of biology, Lehigh University, to director, new Institute for Pathobiology at the university. . . . **Charles C. Boyer**, professor of anatomy, Indiana University, to director, Center for Medical Education, Ball State University. . . . **Ralph H. Boatman**, professor of public health, University of North Carolina, to dean of allied health sciences at the university. . . . **Kenneth N. Trueblood**, chairman, chemistry department, University of California, Los Angeles, to dean, College of Letters and Science at the university. . . . **J. F. A. McManus**, executive director, Federation of American Societies for Experimental Biology, to dean, College of Medicine, Medical University of South Carolina. . . . **Peter McFadden**, chairman, mechanical engineering department, Purdue University, to dean, School of Engineering, University of Connecticut. . . . **Richard P. Schmidt**, associate dean, College of Medicine, University of Florida, to dean, College of Medicine, State University of New York Upstate Medical Center. . . . **Harold J. Day**, associate professor of civil engineering at the Carnegie-Mellon University, to chairman of en-

vironmental control, University of Wisconsin, Green Bay. . . . **Charles A. Kiesler**, associate professor of psychology, Yale University, to chairman, psychology department, University of Kansas. . . . **John F. Reed**, former president, Fort Lewis College, to chairman of ecosystems analysis, University of Wisconsin, Green Bay.

RECENT DEATHS

William C. Beaver, 73; professor emeritus of biology, Wittenberg University; 28 August.

Stuart R. Brinkley, Jr., 54; former professor of physics, Cornell University; 7 August.

Glover H. Copher, 76; professor of clinical surgery, Washington University; 27 July.

Robert B. Dustman, 78; retired dean, Graduate School, University of West Virginia; 23 August.

Herbert Emmerich, 72; retired professor of political science, University of Virginia; 7 September.

Harold Fink, 68; clinical professor of pathology, Downstate Medical Center, State University of New York; 28 August.

Roald N. Grant, 58; vice president for professional education, American Cancer Society, Inc.; 24 August.

Donald McC. Harper, 70; former associate professor of otolaryngology, Howard University; 18 August.

Natalie F. Joffe, 55; professor of anthropology, New York University; 19 August.

J. Byron McCormick, 75; former president, University of Arizona; 17 August.

Charles A. Mooers, 100; director emeritus, agricultural experiment station, University of Tennessee; 3 August.

Samuel R. Powers, 83; retired head, natural sciences department, Teachers College, Columbia University; 1 September.

Jakob Seiler, 84; professor emeritus of zoology, Eidg. Technische Hochschule, Zurich; 19 August.

Samuel Shenkman, 62; former associate neurosurgeon, College of Physicians and Surgeons, Columbia University; 9 September.

Arthur L. Swift, Jr., 78; retired vice president for planning, New School for Social Research; 10 September.

Albert H. Wright, 90; professor emeritus of zoology, Cornell University; 4 July.