

of 1970 models, and hydrocarbon emissions 37 percent lower, this is barely enough to offset the increase in emissions caused by the number of new cars. Likewise, the EEC adopted a 83 dbA noise limit for cars, a 85 dbA limit for light trucks, and a 90 to 92 dbA limit for buses and heavy trucks. The standards are very easy to meet and will have to be made more stringent later on. But these timid steps have not prevented the member countries from adopting divergent policies. Britain intends to lower the noise limits for automobiles from 84 dbA to 80 dbA after September 1973, the limits for light trucks from 85 to 82 dbA by the same date, and the limits for heavy trucks and buses from 89 to 86 dbA after September 1974. Another mismatch is that Germany will limit the lead content of gasoline to 0.40 gram per liter in 1972 and 0.15 gram per liter in 1974, while France will limit it to 0.45 gram per liter in 1976.

European countries are, in fact, in a situation similar to that of the United States 2 or 3 years ago, when the Environmental Protection Agency was created. Ministries of environment have recently been set up in Britain, France, the Netherlands, and Norway, and each government is gradually working out a program of its own.

Individual European countries, of course, have launched antipollution programs, in some cases original and effective ones. Switzerland, for example, has sponsored the creation of a private facility that has been collecting waste waters from electronic and watchmaking plants for 3 years, in order to abate the pollution of some rivers by heavy metals. Since 1968, the Bonn government has subsidized several industrial undertakings whose task is to collect and recycle or burn waste oil. The costs are raised through a tax on fresh oil, and the salvage firms have to collect waste oil whenever the service is requested, but charge a price which depends on the degree of pollution involved. In 1970, 225,000 tons of oil were thus recovered, of which 190,000 tons were recycled.

Germany was also the first country in Europe to set up a regional water authority, to curb the pollution in the Rhine. France followed suit, dividing the country into six regional water basins in 1964. Since 1969, the regional water authorities have been collecting a tax based on the volume of water used and the amount of pollutants discharged into the waters, both by

municipalities and industries. So far, 542 million francs (\$110 million) has been raised and lent to help the users build treatment plants at a total cost of Frs 1,800 million (\$360 million). But the point is that measures taken so far to solve some of the most glaring ecological problems in the larger cities and in industrial zones have been largely uncoordinated and mainly on a national scale.

Should this trend continue, varying standards will undoubtedly be applied to major products and equipment, thereby constituting significant barriers to free trade. There are already signs that, if the EEC does not take action rapidly enough, industries will try to agree among themselves on standards. The representatives of the most important industries in Europe met in Paris last July to see if they could harmonize their policies and make suggestions to their governments.

Cooperation will also be needed, and is already needed in fact, to harmonize product standards and thus avoid non-tariff barriers that may disturb the free flow of goods, especially within the EEC. Whether European cooperation on environmental problems can be achieved more easily than has been the case with nuclear and space affairs remains to be seen.

—DOMINIQUE VERGUÈSE

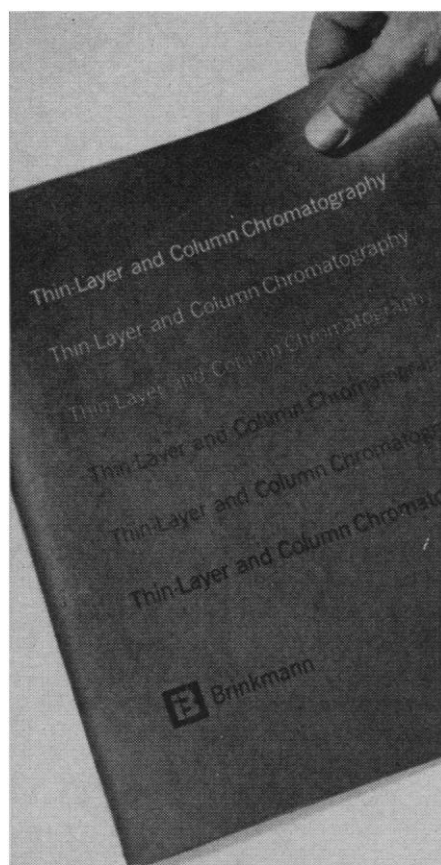
Dominique Verguèse is a member of the science news staff of the Paris daily Le Monde.

APPOINTMENTS

Lois A. Lund, director, School of Home Economics, Ohio State University, to dean, College of Human Ecology, Michigan State University. . . . **Burton J. Williams**, chairman, history department, Central Washington State College, to dean, School of Social and Behavioral Sciences at the college. . . . **Robert W. Ellis, Jr.**, professor of engineering, University of South Florida, to dean, School of Technology, Florida International University. . . . **Herman N. Weill**, dean of arts and sciences, Johnson State College, to dean, Graduate School, Marshall University. . . . **Clarence L. Coates, Jr.**, professor of electrical engineering, University of Illinois, to director, School of Electrical Engineering, Purdue University. . . . **Robert V. Jelinek**, program director for engineering

chemistry, National Science Foundation, to dean, School of Environmental and Resource Engineering, State University of New York College of Environmental Science and Forestry. . . . **Julian H. Fincher**, chairman, pharmaceuticals department, University of Mississippi, to dean, College of Pharmacy, University of South Carolina. . . . **Oscar S. Rothaus**, professor of mathematics, Cornell University, to chairman, mathematics department at the university. . . . **Arthur E. Bergles**, professor of mechanical engineering, Georgia Institute of Technology, to chairman, mechanical engineering, Iowa State University. . . . **Paul C. Heckert**, chairman, sociology department, Catawba College, to chairman, sociology department, Frostburg State College. . . . **Lester Breslow**, chairman, preventive and social medicine department, University of California, Los Angeles, to dean, School of Public Health at the university. . . . **Glenn R. Driscoll**, chancellor, University of Missouri, St. Louis, to president, University of Toledo. . . . **James G. Bond**, vice president, Bowling Green State University, to president, California State University, Sacramento. . . . **Jack S. Goldstein**, professor of astrophysics, Brandeis University, to dean, Graduate School of Arts and Sciences at the university. . . . **Sidney A. Ewing**, head, veterinary parasitology and public health, Oklahoma State University, to dean, College of Veterinary Medicine, University of Minnesota. . . . **Harry J. Hartley**, associate dean, School of Education, New York University, to dean, School of Education, University of Connecticut. . . . **Robert A. Dentler**, professor of education and sociology, Teachers College, Columbia University, to dean, School of Education, Boston University. . . . **Vincent S. Haneman, Jr.**, associate dean of engineering, Oklahoma State University, to dean, School of Engineering, Auburn University. . . . **Richard L. Dobson**, professor of dermatology, University of Oregon Medical School, to chairman, dermatology department, School of Medicine, State University of New York, Buffalo. . . . **Malcolm A. Bagshaw**, director, radiation therapy division, Stanford University School of Medicine, to chairman, radiology department at the medical school. . . . **Vahe E. Amassian**, professor of physiology, Albert Einstein College of Medicine, Yeshiva University, to chairman, physiology department, Downstate Medical Center, State

(Continued on page 434)



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NEWS AND COMMENT

(Continued from page 383)

University of New York, Brooklyn. . . . **James J. Feffer**, associate dean for clinical affairs, George Washington University, to vice president for medical affairs at the university. . . . **Herbert A. Stallworth**, assistant to the president, Florida Atlantic University, to vice president for academic affairs, Austin Peay State University.

RECENT DEATHS

Cyrus E. Burford, 94; former director, urology department, St. Louis University; 10 July.

Robert C. Caldwell, 44; dean, School of Dentistry, University of California, Los Angeles; 6 July.

Guy L. Carter, 88; former chairman, social sciences department, Lynchburg College; 29 June.

Kermit A. Cook, 70; professor emeritus of education, West Virginia University; 15 June.

George F. Donovan, 70; professor emeritus of education, Marquette University; 16 July.

Edgar S. Furniss, 82; former dean, Graduate School, Yale University; 17 July.

Mary F. C. Graustein, 88; former professor of mathematics, Wellesley College; 18 July.

Frank W. Hachtel, 88; former chairman, microbiology department, University of Maryland School of Medicine; 13 July.

Ben Kaplan, 66; professor of sociology, University of Southwestern Louisiana; 15 July.

Carl V. Moore, 63; former chairman, medical department, Washington University; 13 August.

J. Cecil Parker, 64; professor emeritus of education, University of California; 21 June.

John L. Parks, 64; vice president for medical affairs, George Washington University; 5 July.

Oscar E. Sette, 72; fishery biologist, National Marine Fisheries Service, California; 25 July.

Abraham A. Sherman, 65; assistant professor of medicine and radiology, Albert Einstein Medical College; 15 August.

Howard P. Simons, 64; professor of chemical engineering, West Virginia University; 3 June.

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Physiologist, Ph.D., experience in undergraduate, graduate, and medical education. Box 397, **SCIENCE**. X

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