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Cover: Old Faithful, a geyser in Yellowstone National Park, Wyoming, is probably the most famous example in the United States of geothermal energy. The shortage of fossil fuels poses new problems for health facilities and also for manufacturers of medical supplies. Three papers in this issue focus on these problems and offer possible solutions, such as the use of geothermal energy and heat recovery from solid waste incineration.

plication to the minimum extent necessary to make a regulatory scheme work. 628 F.2d at 1054.

After reviewing the statutory framework giving rise to this lawsuit and the legislative history of the Planning Act, the Eighth Circuit Court held that an implied immunity from the antitrust laws did exist in this case. The Court reasoned that if the voluntary cooperation of Blue Cross of Kansas City with MAHSA's plan was deemed to be an antitrust violation, then a major provision of the Planning Act would be without legal effect. 628 F.2d at 1054. In view of legislative history to the contrary, the Court reasoned that it was unlikely that the Congress intended such a result. 628 F.2d at 1056-57.

CONCERN ABOUT SUITS

In essence, the Eighth Circuit Court's decision indicates that voluntary private action within the scope of the Planning Act (that is, planning activities not under the direct mandate of a Federal or State agency), such as the reliance of a third party payor on a regional health systems plan, may be undertaken free of antitrust limitations. This ruling comes at a time of increased concern and confusion about antitrust challenges to health planning.

Two other cases involving health planning and the doctrine of implied immunity are currently pending in the Federal courts. In one, *Huron Valley Hospital, Inc. v. City of Pontiac*, 477 F. Supp. 1301 (E.D. Mich. 1979), appeal docketed, No. 79-1265 (6th Cir. May 16, 1979), the antitrust action was dismissed on grounds that the doctrine of implied immunity and other legal theories insulated the health planning at issue. The other case, *North Carolina v. P.T.A. Asheville, Inc.*, Civ. No. A-C-80-29 (W.D. N.C., filed Feb. 22, 1980), was an antitrust challenge to the defendant's efforts to acquire two hospitals, an acquisition subject to approval of the State Health Planning and Development Agency.

On January 26, 1981, the Supreme Court agreed to review the Eighth Circuit Court's decision. The justices are expected to hear arguments in April 1981.

—PETER A. PAVARINI, Attorney Advisor, Office of the General Counsel, Department of Health and Human Services.

education notes

Occupational health courses. The Rocky Mountain Center for Occupational and Environmental Health, University of Utah, Salt Lake City, has announced that the following courses will be held in 1981: Occupational Safety and Health in Mining Industry, June 15-19; Occupational Safety and Health Law (for occupational health professionals, industrial hygienists, attorneys, physicians, and so forth), June 22-26; Occupational Health Nursing, June 22-26; Advanced Occupational Respiratory Protection, July 13-17 and October 26-30; and Industrial Hygiene Chemistry (NIOSH—National Institute of Occupational Safety and Health—No. 590), Aug. 3-7 and November 16-20.

For further information, contact Katharine C. Bloch, Director, C.E., Rocky Mountain Center for Occupational and Environmental Health, Bldg. 112, University of Utah, Salt Lake City, Utah 84112, telephone (801) 581-5710.

Course in maternal and child nutrition. The Department of Nutrition, Case Western Reserve University, Cleveland, Ohio, will offer the Fourth Annual Intensive Course in Maternal and Child Nutrition, June 14-19, 1981. Entitled "1981 Nutrition and the Quality of Life," the course will include these topics: new advances in nutrition science; techniques in nutrition assessment; and the physiology, growth, and feeding of children. The annual Helen Hunscher lecture will feature Alex Roche, MD, Fels Research Institute, known for his

work on the growth of children. Continuing education hours have been applied for.

For further information, contact Karen M. Fiedler, PhD, M & C 1981, Department of Nutrition, Case Western Reserve University, Cleveland, Ohio 44106, telephone (216) 368-2440.

Workshop on drug and alcohol use. The 23rd Annual Workshop on Drug and Alcohol Use will be held June 2-16, 1981, at Indiana University, Bloomington. Three hours of graduate credit, continuing education units, and non-credit enrollment are available. For further information, contact Dr. Ruth C. Engs, HPER 116, Health and Safety Education, Indiana University, Bloomington, Ind. 47505, telephone (812) 337-9581.

Graduate Summer Session in Epidemiology. The 1981 graduate summer session in epidemiology, sponsored by the Epidemiology Section of the American Public Health Association, the Association of Teachers of Preventive Medicine, and the American College of Preventive Medicine, will be presented at the University of Minnesota in Minneapolis through the School of Public Health, Health Sciences Center, and the Nolte Center for Continuing Education during the 3-week period June 21 to July 11, 1981.

These summer graduate sessions are designed primarily for teachers in medical schools, but postdoctoral fellows, graduate students, and residents in de-

partments of preventive medicine and other medical school departments may qualify. Similarly teachers, postdoctoral fellows, and graduate students in schools of public health, dentistry, and veterinary medicine are eligible, as are qualified personnel of Federal, State, and local health agencies. The course is accredited (category I) for the American Medical Association Physicians Recognition Award.

In general, the summer sessions in 1981 will follow the pattern previously established. In addition to the two basic courses in Fundamentals of Epidemiology and Fundamentals of Biostatistics, several of the previously presented courses will be offered. These include Epidemiology of Infectious Diseases, Surveillance and Control of Communicable Diseases, Hospital Epidemiology and Infection Control, Epidemiology of Cancer, Epidemiology of Cardiovascular Disease, Advanced Statistical Methods in Epidemiology, Occupational Epidemiology, Clinical Trials—Design, Operation and Analysis, and the Epidemiology of Injuries. A new course on environmental epidemiology also will be offered.

A total of 1,881 students have attended the prior 15 summer sessions. Five hundred and fifty-eight students came from medical schools and, of these, 236 were from departments of preventive medicine. Departments of anatomy, biophysics, computer sciences, dermatology, epidemiology, family medicine, medical statistics, medicine, microbiology, neurology, obstetrics-gynecology, pathology, pediatrics, and psychiatry have also been represented. In addition, schools of public health, colleges of veterinary medicine, and schools of dentistry have sent post-graduate students or faculty.

Tuition for the 3-week session will be \$500. Special rates for food and lodging in dormitories have been arranged. Grants for tuition may become available, but prospective registrants should explore other sources of funding as soon as possible.

The course will be limited to 300 students, and special limits will be set on certain courses. The application deadline is May 1, 1981. A \$50 deposit, credited to tuition, should accompany applications and will constitute evidence of intent to attend. Refund of the deposit will be made if the application is not accepted or if the applicant's plans change before May 1, 1981.

Further information and application forms for the 1981 session may be obtained from Dr. Leonard M. Schuman, Director, Graduate Summer Session in Epidemiology, University of Minnesota School of Public Health, 1-117 Health Sciences Unit A, 515 Delaware St., SE, Minneapolis, Minn. 55455.

1981 Health Executives Development Program. Applications are being accepted for the 24th annual Health Executives Development Program, to be offered on the Ithaca campus of Cornell University June 15-25, 1981. Approximately 30 speakers will discuss the latest trends and issues in health policy, planning, regulation, and management. A variety of points of view will be presented to stimulate each participant to seek fresh approaches to health services problems and to lay the groundwork for continuing self-development.

The program is open to hospital administrators; Federal, State and regional health planners and regulators; clinical and medical directors; and executives of voluntary and government health care organizations from the United States, Canada, and overseas. For further information and applications, contact Health Executives Development Program, Malott Hall, Cornell University, Ithaca, N.Y. 14853, telephone (607) 256-4686.

Courses for professionals responsible for occupational health and safety. The Midwest Center for Occupational Health and Safety, an educational resource center sponsored by the National Institute of Occupational Safety and Health (NIOSH), is offering the following courses in the period May-December 1981 for professionals charged with responsibility for occupational health and safety.

Occupational Respiratory Protection (NIOSH 593), May 3-8, 1981, Kansas City, Mo. For persons who have responsibility for any portion of a respirator program. Course will provide the necessary information to initiate or upgrade and supervise a program to comply with requirements of the Occupational Safety and Health Act. Topics include Governing Legislation; Selection; Qualitative and Quantitative Fit Testing; Respiratory Protective Devices; Standard Operating Procedures and Records; Maintenance; Storage and Inspection; and Training. Continuing Education Units will be awarded; also, 1 point from the American Board of Industrial Hygienists toward maintenance of certification. Registration fee \$325.

Recognition of Accident Potential in the Workplace Due to Physical Environmental Factors (NIOSH 511), June 3-5, 1981, Kansas City, Mo. Cosponsored with the Greater Kansas City Area Safety Council. For personnel new to the field of occupational safety. Designed to provide an understanding of the principal physical environmental

factors involved in making workplaces hazardous. Course will consist of lectures, augmented by discussion and problem-solving sessions that are intended to increase the knowledge and skills of the program participants. Topics will include The Work Site and Structures; Industrial Machines; Power and Hand Tools; Equipment; Materials and Industrial Processes and Energy. Continuing Education Units will be awarded. Tuition \$160.

Introduction to Radiation Protection, June 17-18, 1981, Kansas City, Mo. Cosponsored with the Mid America Chapter, American Industrial Hygiene Association. For industrial hygienists, health physics technicians, and other professional health personnel. Specialty program includes concepts of ionizing radiation. Didactic lectures are to be supplemented with workshop sessions. Continuing Education Units will be awarded. Tuition \$150.

Recognition of Accident Potential in the Workplace Due to Human Factors (NIOSH 512), to be held September 16-18 in Minnesota. This course will enable the student to identify the principal elements of accident causation and to apply methodology for control. Audience: professionals in the fields of safety, engineering, loss control, personnel, insurance, and others with sufficient background to incorporate this kind of training into their current safety responsibilities. Participants will be able to recognize the human factors that help to predict the occurrence of accidents in the workplace. Course content will include Physiological and Psychological Factors; Motivation and Attitudes; Group Influences on Behavior; Individual Characteristics; Organizational Impact on Work; Man-Machine Interface; Performing a Job Analysis; and Accident Prevention. Continuing Education Units will be awarded. Fee \$160.

The Injured Worker: A Comprehensive Approach to Medical, Legal, and Psychological Management of Disability, Sept. 21-22, 1981, Minneapolis, Minn. Cosponsored with the University of Minnesota and Employers Insurance of Wausau. Participants will acquire a working knowledge of the disability evaluation and compensation systems and learn more effective methods to speed the return of disabled workers to productive activity.

For further information about all these courses and registration, write Ruth K. McIntyre, Director, Continuing Education, Midwest Center for Occupational Health and Safety, 640 Jackson St., St. Paul, Minn. 55101 or call (612) 221-3771.

publications

FEDERAL

Task Force Report on Epidemiology of Respiratory Diseases. *DHHS Publication No. (NIH) 80-2019*. 1980; 244 pages.

A Review of the United States Role in International Biomedical Research and Communications: International Health and Foreign Policy. By Mary E. Corning. *DHHS Publication No. (NIH) 80-1638*. October 1980; 436 pages; \$8, foreign \$10 (Stock No. 017-052-00203-1).

Special Report. Dental Care for Handicapped People. *DHHS Publication No. (PHS) 81-5014*. October 1980; 24 pages.

Catalog of Publications of the National Center for Health Statistics. *DHHS Publication No. (PHS) 80-1301*. July 1980; 33 pages.

Shelley & Pete (& Carol). Leader's guide. *DHHS Publication No. (HSA) 80-5670*. 1980; 39 pages.

Ten Years of Short-Stay Hospital Utilization and Costs Under Medicare: 1967-1976. Health Care Financing Research Report. Prepared by Charles Helbing, contributions Allen Dobson, Roger L. McClung, and Herbert A. Silverman. *DHHS Publication No. (HCFA) 03053*. 1980; 41 pages.

Veterans Benefits for Older Americans. 1980. *Veterans Administration*, Washington, D.C. 20420 or nearest VA regional office.

Psychiatric Drug Study. Part II. Mental Hygiene Clinic Survey, Day Treatment Center Survey, and Day Hospital Survey. By Susan Gee. *Controller Monograph No. 12*. September 1980; 212 pages. *Reports and Statistics Service, Office of Controller, Veterans Administration*, Washington, D.C. 20420.

The following FDA publications are available from the National Technical Information Service, Springfield, Va. 22161.

Bureau of Radiological Health Publications Index. *DHHS Publication No. (FDA) 80-8070*. Compiled by the Technical Information Staff. 1980; \$5, \$3.50 microfiche (Accession No. PB 80-2-1221).

Microwave Hazard Instruments: An Evaluation of the Narda 8100, Holaday HI-1500 and Simpson 380M. By W. A. Herman and D. M. Witters, Jr. *DHHS Publication No. (FDA) 80-8122*. 1980; \$6, \$3.50 microfiche (Accession No. PB 80-227820).

Possible Genetic Damage From Diagnostic X Irradiation: A Review. By Thomas J. Withrow, F. Allan Andersen, Kenneth T. S. Yao, and Melvin E. Stratmeyer. *DHHS Publication No. (FDA) 80-8129*. 1980; \$6, \$3.50 microfiche (Accession No. PB81-101743).

Nationwide Survey of Cobalt-60 Teletherapy. By D. L. Thompson, F. E. Kearley, J. N. Gilin, E. B. Reffit, E. J. Shangold, and H. O. Wyckoff. *DHHS Publication No. (FDA) 80-8130*. 1980; \$6, \$3.50 microfiche (Accession No. PB 81-101784).

Guide for the Filing of Annual Reports for X-Ray Components and Systems. Compiled by the Division of Compliance. *DHHS Publication No. (FDA) 80-8123*. 1980; \$5, \$3.50 microfiche (Accession No. PB 80-204597).

Guide for the Filing of Annual Reports (21 CFR Subchapter J, Section 10002.11). Compiled by the Division of Compliance. *DHHS Publication No. (FDA) 80-8127*. 1980; \$6, \$3.50 microfiche (Accession No. PB 210099).

Federal publications listed are obtainable from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Orders should be accompanied by check or money order and should identify the publication. Single copies may be requested from the agency.

WORLD HEALTH ORGANIZATION

Glossary on Air Pollution. *WHO Regional Publications, European Series, No. 9*; 1980; 114 pages (ISBN 92 9020 109 6); WHO Regional Office for Europe, Copenhagen.

Prevention in Childhood of Health Problems in Adult Life. Edited by Frank Falkner. 1980; 135 pages (ISBN 92 4 156064 9); Geneva (French and Spanish editions in preparation).

Glossary on Solid Waste. Compiled by P. K. Patrick. 1980; 92 pages (ISBN 92 9020 199 1); WHO Regional Office for Europe, Copenhagen.

Breastfeeding. 1970; 40 pages (ISBN 92 4 154138 5); Geneva (Arabic, French, and Spanish editions in preparation).

A Guide to Leprosy Control. 1980; 97 pages (ISBN 92 4 154147 4); WHO, Geneva (French and Spanish editions in preparation).

Recommended Health-Based Limits in Occupational Exposure to Heavy Metals. Report of a WHO study group. *Technical Report Series, No. 647*. 1980; 116 pages (ISBN 92 4 120647 0); Geneva.

Tin and Organotin Compounds. A Preliminary Review. *Environmental Health Criteria 15*. Published under the joint sponsorship of the United Nations Environment Programme and the World Health Organization. 1980; 109 pages (ISBN 92 4 154075 3); WHO, Geneva (French edition in preparation).

Environmental Sanitation in European Tourist Areas. Report on a WHO meeting, Montpellier, September 25-29, 1978. *EURO Reports and Studies, No. 18*. 1980; 33 pages (ISBN 92 9020 157 6). WHO Regional Office for Europe, Copenhagen.

The Environmental Health Officer in an Industrial Society. Report on a WHO Consultation, Copenhagen, No-

November 20-23, 1979. *EURO Reports and Studies*, No. 29. 1980; 31 pages (ISBN 92 9020 168 1). WHO Regional Office for Europe, Copenhagen.

Health Aspects of Wellbeing in Working Places. Report on a WHO Working Group, Prague, September 18-20, 1979. *EURO Reports and Studies*, No. 31. 1980; 28 pages (ISBN 92 9020 170 3). WHO Regional Office for Europe, Copenhagen.

Continuing Education of Health Personnel and Its Evaluation. Report on the technical discussion at the twenty-ninth session of the Regional Committee for Europe, Helsinki, September 14, 1979. *EURO Reports and Studies*, No. 33. 1980; 42 pages (ISBN 92 9020 172 X). WHO Regional Office for Europe, Copenhagen.

Assessing Health Workers' Performance: A Manual for Training and Supervision. By F. M. Katz and R. Snow. *Public Health Papers*, No. 72. 1980; 174 pages; Sw.fr. 12 (ISBN 92 4 130072 8); Geneva (French and Spanish editions in preparation).

WHO publications may be obtained from WHO Publications Centre USA, 49 Sheridan Ave., Albany, N.Y. 12210.

NON-FEDERAL

Issues in Health Care Regulation. Edited by Richard S. Gordon. 1980; 375 pages; \$35 (ISBN 0-07-02370-8). McGraw-Hill Book Co., 1221 Avenue of the Americas, New York, N.Y. 10020.

Public Health and Preventive Medicine. Continuing Education Review. 406 essay questions and referenced answers. By Peter Isacson. August 1980; 204 pages (ISBN 0-87488-348-2). Medical Examination Publishing Co., Inc. (an Excerpta Medica Co.), Garden City, N.Y.

The Legal Rights of Retarded Persons. By Elizabeth Ogg. *Public Affairs Pam-*

phlet No. 583. July 1980; 28 pages; 50 cents. *Public Affairs Pamphlets*, 381 Park Ave. South, New York, N.Y. 10016.

Graduate Medical Education, Present and Prospective. A call for action. Report of the Macy study group. 1980; 227 pages (ISBN 0-914362-34-8). Josiah Macy, Jr., Foundation, One Rockefeller Plaza, New York, N.Y. 10020.

Profiles in Health Caring. 1980; \$4, discounts for 5 or more copies. *National Health Council*, 70 West 40th St., New York, N.Y. 10018.

Credentialing in Nursing—Design for a Workshop. Pub. No. 52-1832. 1980; 48 pages; \$4.95. Conceptual Frameworks Used in Baccalaureate and Master's Degree Curricula. By Delores Santora. Pub. No. 15-1828. 1980; 49 pages; \$4.95. The Community College and Associate Degree Nursing, 1952-1980. By Leola Davidson and Lucille Knopf. Pub. No. 23-1820; 1980; 26 pages; \$3.95. Curriculum Design for Associate Degree Nursing Programs: Teaching and Evaluation in the Classroom. By Lynne Lear Tier and Barbara DeAngelis Roberts. Pub. No. 23-1826. 1980; 73 pages; \$4.95. *National League for Nursing*, 10 Columbus Circle, New York, N.Y. 10019.

Epidemiologic Reviews. Vol. 2. Edited by Philip E. Sartwell and Neal Nathanson. 1980; 231 pages; \$13.50. *The Johns Hopkins University Press*, Baltimore, Md. 21218.

Beyond Alcoholism. Alcohol and Public Health Policy. By Dan E. Beauchamp. 1980; 222 pages; \$17.50. *Temple University Press*, Broad and Oxford Sts., Philadelphia, Pa. 19122.

The Nation's Families: 1960-1990. By George Masnick and Mary Jo Bane with Neal Baer, John Pitkin, Lee Rain-

water, Martin Rein, and Barbara Wiget. 1980; \$19.50 hardcover, \$10 paper. *Joint Center for Urban Studies of MIT and Harvard*, 53 Church St., Cambridge, Mass. 02138.

A Guide to Information Sources. Edited by Lawrence W. Green and Connie Cavanaugh Kansler. 1980; 330 pages; \$28 (ISBN 0-8103-1422-3). *Gale Research Co.*, Book Tower, Detroit, Mich. 48226.

Aging in American and other Cultures. By Gerhard Falk, Ursula Falk, and George Vid Tomashevich. 1980. *Century Twenty One Publishing Co.*, P.O. Box 8A, Saratoga, Calif. 95079.

Renal Adenocarcinoma. A series of workshops on the biology of human cancer. Edited by G. Sufrin and S. A. Beckley. *UICC Technical Report Series*, Vol. 49. 1980; 215 pages; Swiss Francs 17.00 plus postage and packaging (ISBN 92-9018-049-8). *International Union Against Cancer (UICC)*, 3 rue du Conseil-General, CH 1205, Geneva, Switzerland.

Biology of Ovarian Neoplasia. A series of workshops on the biology of human cancer. Edited by E. D. Murphy and W. G. Beamer. *UICC Technical Report Series*, Vol. 50, No. 11. 1980; 132 pages; Swiss Francs 16.00 plus postage and packaging (ISBN 92-9018-050-1). *International Union Against Cancer (UICC)*, 3 rue du Conseil-General, CH 1205, Geneva, Switzerland.

Hospital Liability Revisited: How Governing Boards Can Protect Themselves and Improve Patient Care. By Thomas R. Mulroy. An *INQUIRY* Book. 1980; 55 pages (ISBN 0-914818-06-6). *Blue Cross Association* 676 St. Clair St., Chicago, Ill. 60611.

Children and Drugs. By Jules Saltman. *Public Affairs Pamphlet* No. 584. August 1980; 24 pages; 50 cents. *Public*

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