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ASBESTOS AND HEALTH

An Annotated Bibliography of Public and Professional Education Materials

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CORPORATE
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U.S. DEPARTMENT OF HEALTH,
EDUCATION, AND WELFARE
Public Health Service
National Institutes of Health

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Intended for health care providers and communicators, this bibliography lists materials representing a variety of approaches to health education. Although entries are selected, inclusion does not imply endorsement by the National Cancer Institute. The Clearinghouse does not distribute materials; please contact the source provided for each item. All entries have been checked for availability, but supplies of some materials may be limited. The Clearinghouse welcomes your comments, inquiries, and supplementary materials.

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ASBESTOS AND HEALTH

An Annotated Bibliography of Public and Professional Education Materials

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ASBESTOS AND HEALTH
AN ANNOTATED BIBLIOGRAPHY OF PUBLIC AND PROFESSIONAL EDUCATION MATERIALS

PUBLIC EDUCATION

General Review

Government Agency Publications

1. **Asbestos - 1977.** R. A. Clifton. Sep 77. 17 pp; report.

The international asbestos industry is described, including production statistics, organization and ownership of the various major companies, supply and demand factors, economic factors, the health problems associated with asbestos exposure, and the outlook for the industry. **Cost:** single copies free.

Source: Publications Distribution Branch; Bureau of Mines; 4800 Forbes Ave.; Pittsburgh, PA 15213. Telephone: (412) 621-4500, ext. 8342.

2. **Asbestos Exposure: What it Means, What to Do.** 1978. 14 pp; brochure.

The brochure answers questions about such asbestos-related factors as: risks and high risk groups; uses of asbestos; detection and treatment of asbestos-related diseases; smoking and asbestos exposure; and federal agencies concerned with the effects of asbestos exposure. Many sources of further information are provided, including a list of all of the Cancer Information Service telephone numbers. **Cost:** free. **Order No.:** DHEW (NIH) 78-1594.

Source: National Cancer Institute; Office of Cancer Communications; Bldg. 31, Rm. 10A18; 9000 Rockville Pike; Bethesda, MD 20014.

Industry Publications

3. **A/C Pipe and Health.** 1977. 24 pp; brochure.

The asbestos cement pipe industry answers questions about the potential health risks of drinking water conveyed in asbestos cement pipes. An assessment of health risks is presented with text, tables, and graphics. **Cost:** free.

Source: A/C Pipe Producers Association; 1600 Wilson Blvd., Suite 1308; Arlington, VA 22209. Telephone: (703) 841-1556.

National Cancer Institute, Asbestos and Health: An Annotated Bibliography of Public and Professional Education M... Published by AsbestosClaims.Law
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4. **Asbestos and Health.** May 76. 8 pp; brochure.

Answers to sixteen rhetorical questions explain the nature, applications, benefits, and health risks of asbestos. **Cost:** free.

Source: Asbestos Information Centre Ltd.; Sackville House; 40 Piccadilly; London, W1V 9PA, United Kingdom. Telephone: 01-439-9321.

5. **Asbestos: Its Special Attributes and Uses.** May 75. 32 pp; brochure.

The sources, chemical and physical properties, and practical applications of asbestos are presented. The brochure is visually oriented with color photographs and tables containing comparative specifications and other data on asbestos applications. **Cost:** 1.30 pounds.

Source: Asbestos Information Centre Ltd.; Sackville House; 40 Piccadilly; London, W1V 9PA, United Kingdom. Telephone: 01-439-9231.

6. **Asbestos: Miracle Fibre or Killer Dust?** 8 pp; brochure.

Numerous color photographs portray the beneficial uses of asbestos products while the text reviews the known health hazards associated with exposure to asbestos dust, such as asbestosis, mesothelioma and lung cancer. The history of industry and government controls on asbestos emissions is traced, and confidence expressed that new cases of asbestos-related disease will eventually be eliminated. **Cost:** free.

Source: Asbestos Information Centre Ltd.; Sackville House; 40 Piccadilly; London, W1V 9PA, United Kingdom. Telephone: 01-439-9231.

7. **Asbestos—Public Not at Risk.** May 76. 8 pp; brochure.

The public is reassured that the health risks of nonoccupational asbestos exposure are minimal. Detailed safety precautions are prescribed for the home handyman, but the lack of significant danger in most situations is stressed. **Cost:** free.

Source: Asbestos Information Centre Ltd.; Sackville House; 40 Piccadilly; London, W1V 9PA, United Kingdom. Telephone: 01-439-9231.

8. **Is Brake Lining Dust Harmful?** Jun 76. 4 pp; leaflet.

The small amount of free asbestos fiber (less than 1%) in the dust released by the application of asbestos-lined brakes is discussed in order to emphasize that the public is not exposed to hazardous levels of asbestos in urban environments. A list of statistical references is appended. **Cost:** free.

Source: Asbestos Information Centre Ltd.; Sackville House; 40 Piccadilly; London, W1V 9PA, United Kingdom. Telephone: 01-439-9231.

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9. **Mesothelioma.** Jun 76. 5 pp; brochure.

The definition, incidence, and possible asbestos-related causes of mesothelioma are explored, followed by a discussion of the diminished risk to the public due to current government (UK) asbestos exposure regulations. **Cost:** free.

Source: Asbestos Information Centre Ltd.; Sackville House; 40 Piccadilly; London, W1V 9PA, United Kingdom. Telephone: 01-439-9231.

Nonprint Material

10. **Asbestos—Dos and Don'ts for the Home Handyman.** [Poster]. 1 poster; 6" x 8"; color.

A warning to the do-it-yourself handyman about the risks of lung disease from sawing or cutting asbestos products is accompanied by five safety tips to control or prevent asbestos dust. **Cost:** free.

Source: Asbestos Information Centre Ltd; Sackville House; 40 Piccadilly; London, W1V 9PA, United Kingdom. Telephone: 01-439-9231.

Educational or Professional Organization Publications

11. **Asbestos and Enzymes.** P. Brodeur. 1972. 146 pp; book; paperback.

The history, nature, and, most importantly, the environmental health hazards of asbestos are described in a nontechnical manner for workers and the general public. A large portion of the text discusses the research of Dr. Irving J. Selikoff, a medical specialist on environmental and asbestos health hazards. **Cost:** $1.25. **Order No.:** ISBN 345-02481-8-125.

Source: Ballantine Books, Inc.; 201 E. 50th St.; New York, NY 10022. Telephone: (212) 751-2600.

12. **Asbestos Dust: Everyone's Problem.** R. A. Fowler. 1978. 35 pp; brochure.

The problem of asbestos pollution and related diseases is explained in detail, with the aim of convincing workers to protect themselves against hazardous exposure to the mineral. The topics covered include: the history and common uses of asbestos; who is exposed, and how; ways to control exposure; recommendations for medical surveillance; treatment for asbestos-related diseases; and current regulations and government agencies concerned with occupational health in general and asbestos exposure in particular. A list of pertinent asbestos facts is appended, and there are blank pages for notes or questions. **Cost:** $1; bulk rates.

Source: Western Institute for Occupational/Environmental Sciences, Inc.; 2001 Dwight Way; Berkeley, CA 94704. Telephone: (415) 845-6476.

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13. **Mesothelioma.** 1977. 2 pp; fact sheet.

The biology of mesothelioma is briefly explained, including a description of the tissue (pleural membranes) in which they occur; the types of mesothelioma (benign tumors versus diffuse cancers); the symptoms of disease; the treatment of malignant mesothelioma with combination chemotherapy; and the association of the disease with prolonged exposure to asbestos. **Cost:** free.

Source: Fox Chase Cancer Center; Information Services; 7701 Burholme Ave.; Philadelphia, PA 19111. Telephone: (215) 728-2700.

14. **Plain Talk About Asbestos.** R. A. Fowler; P. L. Polakoff. 1978. 13 pp; brochure.

Using a rhetorical question-and-answer format, the booklet provides a brief history of the origins and uses of asbestos, followed by a review of the carcinogenic risks and legal rights of asbestos workers. A list of sources for further information on asbestos-related disease is also included. **Cost:** $0.50; bulk rates.

Source: Western Institute for Occupational/Environmental Sciences, Inc.; 2001 Dwight Way; Berkeley, CA 94704. Telephone: (415) 845-6476.

Nonprint Material

15. **The American Way of Cancer.** [Motion Picture; Videocassette]. 1975. 1 reel: 57 min.; sound; color; 16 mm or videocassette.

The broadcast examines cancer-causing agents including asbestos, arsenic, pesticides, and certain food additives. It also takes a look at the hiding places of carcinogenic substances in the daily life of a family in Cincinnati, Ohio; in the smelters of a copper plant in Tacoma, Washington; and in a chemical plant in Salem County, New Jersey. **Cost:** $75; rental (film only) $50.

Source: CBS Publishing Group; 383 Madison Ave.; New York, NY 10017.

Safety, Procedures and Standards

Government Agency Publications

16. **New for Consumers. Asbestos Ban.** 1978. 1 p; news release.

The recent ban on asbestos-containing consumer plaster-patching compounds and nonburning artificial fireplace logs, embers, and ash is described. Specific information on how to dispose of these products is provided in a separate fact sheet. **Cost:** free.

Source: Consumer Information Center; General Services Administration; Washington, DC 20405. Telephone: (202) 566-1794.

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17. **Proposed Instructions for Removing Non-Burning Artificial Fireplace Logs, Gas-Burning Fireplace Logs, and Ashes Containing Asbestos.** 1978. 2 pp; fact sheet.

In order to minimize inhalation of asbestos fibers, specific methods are recommended for removal and disposal of asbestos-containing artificial fireplace logs, embers, and ashes. The necessary equipment and procedures for preparation, removal, and disposal are enumerated. **Cost:** free.

Source: Consumer Product Safety Commission; Washington, DC 20207. Telephone: national (800) 638-2666; Maryland (800) 492-2937.

Public Action Materials

Workers' Association Publication

18. **Product Liability Insurance.** B. I. Castleman. Letter to Wendell Ford on SB403. Hearings Before the Subcommittee for Consumers of the Senate Committee on Commerce, Science, and Transportation. U.S. Senate, 95th Congress, lst Session, 25 Apr 77, pp. 418-22.

Historical recognition of the hazards of asbestos is traced from a citation 2,000 years old to modern times, and includes insurance company statistics from 1918. The association of asbestos with lung cancer and other health problems, such as asbestosis, is emphasized, and the attempts and problems in discovering and controlling the environmental and occupational hazards are described. **Cost:** free (supply limited). **Order No.:** Serial 95-26.

Source: Senate Committee on Commerce, Science, and Transportation; 5202 Dirkson Senate Bldg.; Washington, DC 20510. Telephone: (202) 224-5115.

Educational or Professional Organization Publications

19. **Asbestos and You.** B. I. Castleman; A. J. Fritsch. Revised 1974. 64 pp; booklet.

The broad problem of asbestos contamination and its pervasiveness in the urban, work, and other environments is reviewed with respect to known effects on health, particularly cancer. Action by the general public is advocated for protection against, and prevention of, asbestos pollution. There is an extensive bibliography, appendixes of statistical information, and tables listing the uses of asbestos. **Cost:** $4.

Source: Citizens Energy Project; 1413 K St., N.W., 8th Floor; Washington, DC 20005. Telephone: (202) 393-6700.

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20. **The Cancer Connection and What We Can Do About It.** L. Agram. 1977. 220 pp; book.

The author, an attorney, draws attention to the fact that there have been recent increases in occupationally related cancers. The author recommends a federally instituted cancer prevention agency consisting of scientists and attorneys; its objectives would be to initiate and carry out programs that would protect the public from environmental carcinogens. **Cost:** $8.95.

Source: Houghton Mifflin; 2 Park St.; Boston, MA 02107. Telephone: (617) 725-5000.

21. **Expendable Americans.** P. Brodeur. 1973. 274 pp; book.

The book describes how asbestosis and cancer developed in some workers as a result of working conditions in the asbestos industry. The series of articles on which this book is based received a 1973 Sidney Hillman Prize and Columbia University's 1974 National Magazine Award for reporting excellence. **Cost:** $8.95.

Source: Viking Press, Inc.; 625 Madison Ave.; New York, NY 10022. Telephone: (212) 755-4330.

INDUSTRY USE AND EMPLOYEE EDUCATION

General Review

Industry Publications

22. **The Asbestos Report.** W. Cooper, ed. Winter 1976. 8 pp; newspaper.

Designed for general audiences, this special feature newspaper contains many articles of interest to persons who work with or manage asbestos-using operations. **Cost:** free.

Source: Johns-Manville; Health, Safety & Environment Dept.; Ken-Caryl Ranch; Denver, CO 80217. Telephone: (303) 979-1000, ext. 3120.

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23. **What You Should Know About Asbestos and Health.** 11 pp; brochure.

Employees are advised of potential health risks from exposure to asbestos dust when safety regulations are ignored, either at the plant or in field operations such as construction and demolition. The brochure describes the health hazards, the employer's obligation to protect the employees, and what the workers can do to protect their own health and that of their families. A smoking ban is among the twelve safety regulations described. **Cost:** free.

Source: Asbestos Information Association/North America; 1745 Jefferson-Davis Hwy.; Arlington, VA 22202. Telephone: (703) 979-1150. **Or:** Johns-Manville; Health, Safety & Environment Dept.; Ken-Caryl Ranch; Denver, CO 80217. Telephone: (303) 979-1000, ext. 3120.

Nonprint Material

24. **Working with Asbestos.** [Motion Picture]. 1 reel: 25 min.; sound; color; 16 mm.

Designed for viewing by employees who come in contact with asbestos during their employment, the program describes the occupational health risks associated with exposure to asbestos fiber. Specific diseases associated with occupational exposure are discussed, as well as latent periods, the synergism of smoking, and the functioning of the human respiratory system. The effectiveness of engineering controls, industrial hygiene monitoring, respirators, and government regulations are outlined, and safe work practices are suggested. **Cost:** $110.

Source: Johns-Manville; Health, Safety & Environment Dept.; Ken-Caryl Ranch; Denver, CO 80217. Telephone: (303) 979-1000, ext. 3120.

Workers' Association Publications

25. **"Ask the Doctors. . . Bystander Exposure."** E. C. Holstein. *Painters & Allied Trades Journal:* 13, Dec 77.

A physician explains the occupational health risks for workers who do not themselves use dangerous substances but who absorb them from co-workers who are using them. Examples are cited of various types of workers who develop asbestosis because they work in the vicinity of insulators and pipefitters, particularly in shipyards.

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26. **Dr. Irving J. Selikoff's Address to the Delegates of the Twenty-First Convention of the International Association of Heat and Frost Insulators & Asbestos Workers, Chicago, IL, Sep 67.** I. J. Selikoff. 1967. 33 pp; brochure.

Asbestos-related disease in asbestos and insulation workers is described, including the increased susceptibility to disease in workers who smoke. Much of the address consists of a dialogue between the speaker and association officials. The booklet is illustrated with tables and lung radiographs. **Cost:** single copies free; bulk rates.

Source: Asbestos Workers International Union; 505 Machinists Bldg.; 1300 Connecticut Ave., N.W.; Washington, DC 20036. Telephone: (202) 785-2388.

27. **"MSSM Pinpoints Health Hazards Among Painters and Allied Tradesmen."** *Painters & Allied Trades Journal:* 7-11, Apr 77.

The findings of the Mount Sinai School of Medicine's investigation into the health hazards associated with painting are summarized. Chief among these findings is the exposure of painters to asbestos dust from spackling compounds; new standards, safety procedures, and asbestos substitutes are recommended. A summary table shows how asbestos produces disease almost exclusively in the respiratory system, though it is sometimes associated with digestive tract cancers. The table also lists other compounds used by the paint industry and their health-associated risks.

Educational or Professional Organization Publication

28. **Cancer and the Worker.** P. E. Lehmann, ed. 1977. 77 pp; booklet.

Following an introduction to the general nature of occupational cancer, a chapter on the occupational cancer risks of certain dusts and fibers, including asbestos, is presented. Governmental efforts to prevent or control occupational cancer, the conflict of workers' rights and economic pressures, and the problems of measuring cancer risks are also discussed. **Cost:** $2. **Order No.:** ISBN 0-89072-058-4.

Source: The New York Academy of Sciences; 2 E. 63rd St.; New York, NY 10021. Telephone: (212) 838-0230.

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Safety Procedures

Industry Publications

29. **Asbestos and the Docker.** Nov 75. 4 pp; leaflet.

Following a brief review of the applications and economic value of asbestos products, dockworkers (who only handle packaged asbestos) are reassured about limited occupational exposure to asbestos fibers. They are, however, advised on the need for prompt and competent handling of spillage from broken asbestos containers. **Cost:** free.

Source: Asbestos Information Centre Ltd.; Sackville House; 40 Piccadilly; London, W1V 9PA, United Kingdom. Telephone: 01-439-9231.

30. **Asbestos Dust and Your Health.** Jun 76. 4 pp; leaflet.

Following a brief explanation of the relative tendencies of asbestos products to create dust when cut, drilled, or otherwise processed, workers are advised on possible health risks in various asbestos-utilizing occupations. Precautions in asbestos processing (such as cutting with power tools, even where the fibers are "locked in") and five safety tips concerning damping, dust removal, and protective clothing, are also described. **Cost:** free.

Source: Asbestos Information Centre Ltd.; Sackville House; 40 Piccadilly; London, W1V 9PA, United Kingdom. Telephone: 01-439-9231.

31. **Before You Begin There Are Some Things You Should Know.** 12 pp; brochure.

A manufacturer of products containing asbestos advises prospective employees that although the company takes stringent precautions to protect its workers, they themselves are responsible for understanding the health risks associated with asbestos inhalation and for following safe working rules. Employees exposed to asbestos are at higher risk of asbestosis, lung cancer (especially if coupled with cigarette smoking), mesothelioma, and cancer of the digestive tract. Among the required safety rules are control of asbestos dust, use of respirators and protective clothing, smoking bans, and reporting faulty equipment. An attached tear-off questionnaire asks the employee if he understands the health risks and work rules, and if he has any additional questions. **Cost:** free.

Source: Asbestos Information Association/North America; 1745 Jefferson-Davis Hwy.; Arlington, VA 22202. Telephone: (703) 979-1150. **Or:** Johns-Manville; Health, Safety & Environment Dept.; Ken-Caryl Ranch; Denver, CO 80217. Telephone: (303) 979-1000, ext. 3120.

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32. **Recommended Work Practices for A/C Pipe.** 1977. 20 pp; brochure.

Procedures that minimize the inhalation of dust when sawing, rasping, machining, and drilling asbestos cement pipes are described and illustrated. A brief summary of government safety regulations and the health hazards of asbestos inhalation is also included. **Cost:** free.

Source: A/C Pipe Producers Association; 1600 Wilson Blvd., Suite 1308; Arlington, VA 22209. Telephone: (703) 841-1556.

Nonprint Material

33. **Asbestos Health Hints for the Workplace.** [Posters]. 6 posters; 15" x 23"; color.

The poster series urges prevention of asbestos-related health hazards by: vacuuming dust spills, using respirators, not smoking, immediately repairing broken bags, changing clothing at work, and reporting unsafe working conditions promptly. **Cost:** free.

Source: Asbestos Information Association/North America; 1745 Jefferson-Davis Hwy.; Arlington, VA 22202. Telephone: (703) 979-1150.

34. **Recommended Practices for Handling Asbestos Fiber.** [Poster]. 1 poster: 11" x 14"; color.

General precautions for working with asbestos and procedures for unloading, storing, handling, transporting, and disposing of waste material are briefly summarized. **Cost:** free.

Source: Asbestos Information Association/North America; 1745 Jefferson-Davis Hwy.; Arlington, VA 22202. Telephone: (703) 979-1150.

Workers' Association Publication

35. **"NIOSH Reveals Trade Names of Cancer-Causing Paint Products."** *Painters & Allied Trades Journal:* 5-11, Oct 77.

The findings of a survey of paint components by the National Institute of Occupational Safety and Health reveal asbestos as the main cancer risk compound. Paints or paint products are identified by name, and a coupon is attached for painters to fill out and return to the journal to assist the union in conducting its own investigation of asbestos-containing paints. The article also explains to painters how asbestos contamination is monitored and how they can report suspected overexposure in their work environment.

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International Organization Publication

36. **"The Trade Unionist's View of Occupational Cancer."** A. C. Blyghton. *INSERM*, 52(13):425-9, 1976.

The article describes a 1975 attempt to trace workers in England who had been exposed to carcinogens by establishing a register for asbestos industry workers. The obstacles to setting up such a program are discussed, and suggestions are made for overcoming any such problems.

Smoking Cessation

Industry Publication

37. **A Do-It-Yourself Quit Smoking Course.** M. Tracy. Dec 77. 34 pp; brochure.

Developed for employees of an asbestos corporation, the self-administered program consists of three chapters, to be worked through consecutively at the smoker's own pace. The first section prepares the individual for quitting; it helps him to analyze and understand the nature of his habit. Gradual withdrawal is also initiated at this stage. Chapter two is to be started when the smoker is ready for complete cessation. It includes a list of the benefits of being a nonsmoker, and many tips for replacement activities, snacks, relaxation aids, and other ways to fight off cravings. The last chapter is related to self-awareness, the concept being that the higher an individual's self-esteem, the less likely he will be to revert to smoking in stressful situations. **Cost:** $0.17; bulk rates.

Source: A. N. Rosser, Corporate Personnel Manager, Cassiar Asbestos Corporation, Ltd.; 2000 Guiness Tower; 1055 W. Hastings St.; Vancouver, B.C. V6E 3V3, Canada. Telephone: (604) 688-2511.

Nonprint Material

38. **If You Don't Smoke Now, Don't Start. If You Do Smoke, Quit!** [Poster]. 15" x 23"; color.

Asbestos workers are urged not to start smoking and to quit if they already smoke. **Cost:** $0.40.

Source: Asbestos Information Association/North America; 1745 Jefferson Davis Hwy.; Arlington, VA 22202. Telephone: (703) 979-1150.

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Public Action Materials

Workers' Association Publication

39. **Asbestosis. The Insulation Products on Trial. (Death and Injury from Inhalation of Asbestos Dust).** W. Stephenson. 1969. 8 pp; report.

The deleterious effect of asbestos inhalation on insulation workers is summarized for lawyers who may become involved in litigation seeking damages for workers with asbestos-related diseases. Several court cases and their outcome are reviewed, together with relevant legislation. Scientific articles are cited in order to provide lawyers with background information on the occupational health hazards associated with asbestos. **Cost:** free.

Source: International Association of Heat and Frost Insulators and Asbestos Workers; 1300 Connecticut Ave., N.W., Rm. 505; Washington, DC 20036. Telephone: (202) 785-2388.

Nonprint Material

40. **Asbestos: Fighting a Killer.** [Slides-Tape]. B. Bellow; N. Esleson. 137 slides: 30 min.; sound; color; 2" x 2"; with audiocassette, script, and carousel slide tray.

Designed to educate workers about the dangers of asbestos, the presentation describes the medical consequences of asbestos exposure and details the federal regulations designed to protect the workers and their families. **Cost:** $125.

Source: Oil, Chemical and Atomic Workers International Union, AFL-CIO, CLC; Citizenship-Legislative Dept.; Anthony Mazzocchi, Director; 1126 16th St., N.W.; Washington, DC 20036. Telephone: (202) 223-5770.

EMPLOYER USE OR EDUCATION

General Review

Industry Publications

41. **Asbestos.** 7 pp. Reprinted from *National Safety News*, 1973.

Industry's response to the health-related problems of asbestos exposure is presented, along with a brief review of the characteristics and uses of asbestos, its associated diseases, exposure of the general public, pollution control, and establishment of control standards. The employer's--as well as the employee's — major obligations as a result of the federal asbestos standards are enumerated. The Asbestos Information Association

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also answers some frequently-asked questions about asbestos and health. **Cost:** $0.33; bulk rates. **Order No.:** 111.17-87.

Source: National Safety Council; 444 N. Michigan Ave.; Chicago, IL 60611. Telephone: (312) 527-4800.

42. **Asbestos.** [Serial]. Monthly.

The monthly asbestos industry journal presents news and events concerning asbestos mining, processing, production, imports, exports, and consumption. Contents include the latest government regulations on asbestos use, as well as industry statistics and promotion of machinery and products. **Cost:** $5 annually to U.S.; $6 foreign.

Source: Asbestos; P. O. Box 471; 131 N. York Rd.; Willow Grove, PA 19090. Telephone: (215) 659-0134.

43. **News & Notes.** [Newsletter]. Monthly.

The industry-sponsored newsletter publishes current information and news concerning asbestos manufacture and use. This includes pending federal legislation on asbestos handling, health aspects of asbestos in the work environment, announcements of new asbestos-related meetings and publications, and recent newspaper clippings on varied aspects of asbestos. **Cost:** $48 annually to non-AIA/NA members.

Source: Asbestos Information Association/North America; 1745 Jefferson-Davis Hwy.; Arlington, VA 22202. Telephone: (703) 979-1150.

Regulation and Control

Government Agency Publications

44. **"Asbestos (Section 1910.1001)."** pp. 510-14. In: U.S. Occupational Safety and Health Administration. **General Industry Safety and Health Standards.** Revised 1976.

The Occupational Safety and Health Administration's general industry standard on asbestos covers definition, permissible exposure limit, methods of compliance, personal protective equipment, method of measurement, monitoring, caution signs and labels, housekeeping, recordkeeping, and medical examinations. **Cost:** $5.35. **Order No.:** 029-015-00511-1.

Source: Superintendent of Documents; U. S. Government Printing Office; Washington, DC 20402. Telephone: (202) 783-3238.

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45. **"Asbestos Manufacturing Point Source Category. Effluent Guidelines and Standards."** U. S. Environmental Protection Agency. *Federal Register*, 49(6):1874-8, 1975.

The Federal Water Pollution Control Act regulations limit chemical oxygen demand (COD), total suspended solids, and acidity (pH) in the effluent from such subcategory industries as asbestos textiles, solvent recovery, vapor absorption, and wet dust collection.

46. **"Consumer Patching Compounds and Artificial Emberizing Materials (Embers and Ash) Containing Respirable Free-Form Asbestos."** Consumer Product Safety Commission. *Federal Register*, 42(241):63354-64, 15 Dec 77.

The federal regulation bans asbestos-containing consumer plaster-patching compounds and artificial, nonburning fireplace logs, embers, and ashes. Information justifying the ban is included.

47. **"National Emission Standards for Hazardous Air Pollutants. Amendments to Standards for Asbestos and Mercury."** Environmental Protection Agency. *Federal, Register*, 40(199):48292-311, 1975.

The revisions to the standards for asbestos emissions under the Clean Air Act, primarily affecting demolition of structures and asbestos disposal, are described.

Safety Monitoring and Procedures

Government Agency Publication

48. **Assessment of Particle Control Technology for Enclosed Asbestos Sources - Phase II. Environmental Protection Technology Series.** P. C. Siebert; T. C. Ripley; C. F. Harwood. Mar 76. 124 pp; report.

Optimal procedures for controlling the emission of asbestos fibers in baghouses are described. Information is based on a study that varied such parameters as humidity, filter fabric, air-to-cloth ratio, shaking amplitude, period between shakes, and shaking duration. On the basis of these findings, recommendations are made to significantly reduce outlet concentrations of asbestos. **Cost:** (PC-A06) $6.50; microfiche (MF-A01) $3. **Order No.:** EPA-600/2-76-065.

Source: National Technical Information Service; 5285 Port Royal Rd.; Springfield, VA 22161. Telephone: (703) 557-4650.

National Cancer Institute, Asbestos and Health: An Annotated Bibliography of Public and Professional Education... Published by AsbestosClaims.Law
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Industry Publications

49. **Asbestos Dust—Safety and Control.** Jun 76. 24 pp; brochure.

Following a brief review of government (UK) regulations of asbestos levels in the occupational environment, answers are provided to common questions posed by the asbestos industry, as well as the related industries of building, construction, motor vehicle repair, and the manufacture of asbestos-reinforced plastics. Guidance is given to employers on the execution of regulations and the possible health effects of industrial asbestos emissions on the general public. **Cost:** free.

Source: Asbestos Information Centre Ltd.; Sackville House; 40 Piccadilly; London, W1V 9PA, United Kingdom. Telephone: 01-439-9231.

50. **Fabrication and Use of Asbestos Friction Materials.** Series: **Recommended Work Practices.** [1975]. 36 pp; brochure.

Asbestos friction products and manufacturing operations are listed, followed by a summary of Occupational Health and Safety Administration (OSHA) standards and general and specific recommendations for controlling asbestos dust during the manufacture of friction products. Appendixes contain the relevant OSHA regulation, methods for sampling airborne asbestos fibers, and diagrams of vacuum cleaning stations. **Cost:** $1.35.

Source: Asbestos Information Association/North America; 1745 Jefferson-Davis Hwy.; Arlington, VA 22202. Telephone: (703) 979-1150.

51. **Fabrication and Use of Asbestos Paper Products.** Series: **Recommended Work Practices.** [1975]. 36 pp; brochure.

The asbestos paper products and processing procedures covered by these work practices include millboard, commercial grade, electric insulating, cushioning, and sound deadening papers; and die cutting, shearing, sheeting, combining, and coating procedures. General and specific recommendations for handling asbestos paper products are presented. Appendixes contain the federal standard for exposure to asbestos dust, methods for sampling airborne fibers, and diagrams of vacuum cleaning stations. **Cost:** $1.35.

Source: Asbestos Information Association/North America; 1745 Jefferson-Davis Hwy.; Arlington, VA 22202. Telephone: (703) 979-1150.

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52. **Molding and Fabrication of Asbestos-Containing Plastic Products.** Series: **Recommended Work Practices.** [1975]. 36 pp; brochure.

As a result of the Occupational Safety and Health Act, the recommended work practices were developed to serve as a guideline for safe and clean workplace conditions. This booklet covers molding processes and asbestos-reinforced plastic products. The relevant OSHA regulations are listed, and descriptions of specific manufacturing and evaluation processes are included in the appendixes. **Cost:** $1.35.

Source: Asbestos Information Association/North America; 1745 Jefferson-Davis Hwy.; Arlington, VA 22202. Telephone: (703) 979-1150.

53. **Occupational Health Guide: Asbestos.** 8 pp; leaflet.

A manufacturer of asbestos-containing products provides a brief summary of the characteristics of asbestos and its production, and the health risks of exposure to asbestos fibers. To protect employees from asbestosis, lung cancer, mesothelioma, and gastrointestinal cancer, the company enforces safety standards such as emission control, protective clothing, no smoking, and medical surveillance. **Cost:** 1-5 copies free.

Source: Johns-Manville; Health, Safety & Environment Dept.; Ken-Caryl Ranch; Denver, CO 80217. Telephone: (303) 979-1000, ext. 3120.

54. **Recommended Practices for Handling Asbestos Fiber.** 4 pp; leaflet.

Properties of asbestos are briefly defined and concise instructions given on how to handle the storage, clean-up, transfer, transportation, and disposal of fibrous, unprocessed asbestos. Attention of workers is drawn to Occupational Safety and Health Administration (OSHA) and Environmental Protection Agency (EPA) regulations and the availability of protective equipment. The brochure also lists other publications and posters available from the Asbestos Information Association. **Cost:** $0.10.

Source: Asbestos Information Association/North America; 1745 Jefferson-Davis Hwy.; Arlington, VA 22202. Telephone: (703) 979-1150.

55. **"Recommended Safe Practices for Spraying Asbestos."** M. Sheinbaum. *Industrial Hygiene Review*, 13:3-5, Jan 70.

Spray applications of wetted mixtures of asbestos and other widely used sound and fireproofing insulation materials result in the release of high airborne concentrations of fibers. In cases where asbestos must be sprayed, recommendations are made for safeguarding the health of those who may be exposed to these respirable airborne fibers.

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56. **Shop and Field Fabrication of Asbestos Sheet Products.** Series: **Recommended Work Practices.** [1975]. 44 pp; brochure.

Asbestos sheet products and manufacturing processes are listed, followed by a summary of Occupational Safety and Health Administration (OSHA) asbestos standards. Dust disposal and asbestos cutting procedures using portable or fixed tools are described. Appendixes include the OSHA asbestos regulation, a description of sampling procedures for airborne asbestos in work areas, and schematics of vacuum and waste disposal systems. **Cost:** $1.35.

Source: Asbestos Information Association/North America; 1745 Jefferson-Davis Hwy.; Arlington, VA 22202. Telephone: (703) 979-1150.

57. **Use and Handling of Asbestos Textile Products.** Series: **Recommended Work Practices.** [1975]. 36 pp; brochure.

Following a list of asbestos textile products and processing procedures, the Occupational Safety and Health Administration (OSHA) asbestos standard is summarized. Both specific and general work practices are described, including housekeeping, information and training, waste disposal, and personal hygiene. Appendixes contain the OSHA standard, a description of a method for sampling airborne asbestos fibers, and schematics of vacuum and disposal systems. **Cost:** $1.35.

Source: Asbestos Information Association/North America; 1745 Jefferson-Davis Hwy.; Arlington, VA 22202. Telephone: (703) 979-1150.

Educational or Professional Organization Publications

58. **Industrial Ventilation - A Manual of Recommended Practice.** 15th Ed. 1978. Manual.

The manual for industrial ventilation system design, construction, and evaluation is intended as a practical reference book for use by designers, contractors, engineers, industrial hygienists, or others concerned with industrial ventilation. Coverage ranges from principles of airflow to air cleaning devices with over 200 illustrations depicting good and bad ventilation systems. Basic ventilation principles and sample calculations are presented in a clear, simplified manner. Practical solutions are provided for the entire range of ventilation problems. A metric supplement is also included with each book. **Cost:** $8; bulk rates.

Source: Committee on Industrial Ventilation; P. O. Box 16153; Lansing, MI 48901.

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59. **Process Flow Diagrams and Air Pollution Emission Estimates.** 1973. Manual.

Flow diagrams, process descriptions, and recommended control methods are presented for asbestos ore milling, asphalt batching, carbon black manufacturing, cement manufacturing, paint and varnish manufacturing, and various other procedures. **Cost:** $1.50.

Source: Publications Office; American Conference of Governmental Industrial Hygienists; P. O. Box 1937; Cincinnati, OH 45201. Telephone: (513) 825-0312.

60. **"Safety Measures When Handling Asbestos."** R. M. Wagg. *Royal Society of Health Journal,* 96(6):252-5, Dec 76.

An occupational safety specialist outlines ways in which asbestos can be more safely handled to lessen the incidence of asbestosis, lung cancer, and other asbestos-associated diseases. Methods include control of dust emission, protective clothing and equipment for workers, and proper storage. The special problems of building construction, demolition, and emission of fibers from asbestos insulation are also discussed.

61. **"Shipyard Procedures Guide Helps All Insulation Men."** D. A. Holaday; W. B. Reitze. *Insulation Hygiene Progress Reports,* 3:1-4, Winter 71.

The procedural guide for asbestos insulation application and removal in shipyards describes: control of asbestos-containing dusts by use of substitute materials; reduction of dust by changes in work methods; reduction of dust by use of local exhaust ventilation; control of number of workmen exposed; and education and training in the workplace.

62. **"Winning a Battle to Control Workplace Asbestos."** J. Weidman. *Job Safety and Health,* 6(4):15-9, Apr 78.

A plant that blends asbestos fiber with thermoset resins demonstrates how employers can lessen asbestos pollution. Methods employed for the cleanup are described, including filtration equipment, monitoring, employee education (with emphasis on not smoking), and hygienic work practices. The case history is discussed as a model of feasibility for small asbestos plants that are using their own resources to meet government standards of work safety.

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Additional Resources

63. **Asbestos Information Association/North America;** 1745 Jefferson-Davis Hwy.; Arlington, VA 22202. Telephone: (703) 979-1150.

The Asbestos Information Association/North America (AIA/NA) is an incorporated, nonprofit organization composed of firms or corporations engaged in the manufacture, sale or use of products containing asbestos fiber, or in the mining, milling, or sale of asbestos fiber. Activities include providing industry-wide information on the asbestos-health relationship, cooperating with government agencies in developing and implementing standards for worker protection and environmental control, exchanging information on asbestos dust control methodology, and helping members solve asbestos-related health problems.

64. **Asbestos Information Centre, Ltd.;** Sackville House; 40 Piccadilly; London W1V 9PA, United Kingdom. Telephone: 01-439-9231.

The industry-sponsored Asbestos Information Centre (AIC) was started in 1967 to distribute technical, environmental, and health-related information on asbestos. In collaboration with the Asbestosis Research Council, the AIC provides books, films, and posters dealing with such subjects as occupational and environmental health risks, government regulations, asbestos and cancer, and technical aspects of asbestos applications and processing.

65. **Cal-OSHA Monitoring Program;** Division of Industrial Safety; State of California; Dept. of Industrial Relations; 455 Golden Gate Ave.; San Francisco, CA 94102.

Designed by the California division of the Occupational Safety and Health Administration (OSHA), the program registers California employers who use any of eighteen cancer causing substances, including asbestos, benzidine, and vinyl chloride. A registration form for obtaining information such as plant location, cancer substances used, and company and employee addresses, is available.

66. **Industrial Health Foundation;** 5231 Centre Ave.; Pittsburgh, PA 15232. Telephone: (412) 687-2100.

A research and service organization of industrial companies in all categories, the 200 members of this group work for the advancement of health in industry. The foundation maintains a research laboratory for member companies and conducts studies for the prevention of industrial diseases and for the improvement of working conditions. It also conducts a training course for industrial hygiene engineers and chemists, and maintains a library. Numerous bulletins are published, in addition to the monthly *Industrial Hygiene Digest.*

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INDUSTRIAL HEALTH PROFESSIONAL USE OR EDUCATION

General Review

Educational or Professional Organization Publication

67. **Scope, Objectives, and Functions of Occupational Health Programs.** Council on Occupational Health. Revised Dec 71. 12 pp; brochure.

The American Medical Association guidelines for establishing occupational health programs include recommendations on objectives, activities, facilities, organization, and staffing. **Cost:** free. **Order No.:** OCCH 213.

Source: American Medical Association; Dept. of Environmental, Public, and Occupational Health; 535 N. Dearborn St.; Chicago, IL 60610. Telephone: (312) 751-6126.

Scientific Review

Educational or Professional Organization Publications

68. **The Nature of Occupational Cancer: A Critical Review of Present Problems.** B. D. Dinman. 1974. 112 pp; book.

Written for industrial health professionals, the book places the causality of occupational cancer within a conceptual framework dependent upon the adequacy of available knowledge. The epidemiologic and laboratory methods utilized and the problems associated with their use are critically reviewed. Specific agents related to occupational cancer are discussed, as well as various approaches to the control and prevention of this type of disease. **Cost:** $8.75. **Order No.:** ISBN 0-398-02907-5.

Source: Charles C. Thomas Publisher; 301-327 E. Lawrence Ave.; Springfield, IL 62703. Telephone: (217) 789-8980.

69. **"What is Asbestos?"** J. Weidman. *Job Safety and Health,* 5(9):17-20, Sep 77.

Factors that should be considered by researchers and government regulatory agencies when addressing asbestos-related health problems are discussed at a multidisciplinary conference. Since no agreement is reached on a definition of the group of hydrated, fibrous silicates collectively called asbestos, further investigation is suggested. Information on current asbestos experiments is also presented.

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Safety Monitoring and Procedures

Educational or Professional Organization Publications

70. **Air Sampling Instruments Manual.** 5th Ed. 1978. Manual.

The manual describes the uses, principles of operation, physical and performance data, operating and maintenance instructions, and commercial sources for a variety of air sampling instruments. It is designed as an aid in the selection, use, and repair of air sampling equipment under field and laboratory conditions. It also includes a comprehensive discussion of air sampling principles and of the use of instrumentation for evaluation of airborne contamination. **Cost:** $20.

Source: Publications Office; American Conference of Governmental Industrial Hygienists; P. O. Box 1937; Cincinnati, OH 45201. Telephone: (513) 825-0312.

71. **"Background Documentation on Evaluation of Occupational Exposure to Airborne Asbestos."** *American Industrial Hygiene Association Journal,* 36(2):91-103, 1975.

The literature on the health hazards associated with occupational exposure to airborne asbestos fibers and the techniques used to determine inhalation exposure is critically reviewed. The work serves in part as the background documentation for *Recommended Procedures for Sampling and Counting Asbestos Fibers* (see Item No. 73).

Source: Reprints available for $1 from Publications Office; American Conference of Governmental Industrial Hygienists; P. O. Box 1937; Cincinnati, OH 45201. Telephone: (513) 825-0312. **Or:** American Industrial Hygiene Association; 475 Wolf Ledges Pkwy.; Akron, OH 44311. Telephone: (216) 762-7294.

72. **Occupational History.** 4 pp; form.

The occupational health history questionnaire codes occupational information such as job status, selected occupations, and exposure to known health risk factors, including asbestos and beryllium. **Cost:** free.

Source: Environmental Sciences Laboratory; Mt. Sinai School of Medicine of the City University of New York; Fifth Ave. and 100th St.; New York, NY 10029. Telephone: (212) 876-1178.

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73. **"Recommended Procedures for Sampling and Counting Asbestos Fibers."** *American Industrial Hygiene Association Journal*, 36(2):83-90, 1975.

The manual is a detailed protocol for determining the airborne concentration of asbestos fibers in the workplace. It provides the technical details not given in the brief footnote to the asbestos Threshold Limit Value (see Item No. 126).

Source: Reprints available for $1 from Publications Office; American Conference of Governmental Industrial Hygienists; P. O. Box 1937; Cincinnati, OH 45201. Telephone: (513) 825-0312. **Or:** The American Industrial Hygiene Association; 475 Wolf Ledges Pkwy.; Akron, OH 44311. Telephone: (216) 762-7294.

74. **Ventilation System Testing.** Brochure.

Excerpted from *Industrial Ventilation - A Manual of Recommended Practice* (see Item No. 58), the publication provides a complete easy-to-use guide for the testing of industrial ventilation systems. **Cost:** $0.50; bulk rates.

Source: Committee on Industrial Ventilation; P. O. Box 16153; Lansing, MI 48901.

75. **Workplace Hazard Monitoring - Proceedings of ACGIH Topical Symposium.** 1976. Proceedings.

The papers were presented at the December 1975 two-day meeting at which environmental and medical monitoring programs were examined for use by businesses (small, medium, and large in size) in meeting occupational health standards. Procedural methods are emphasized in both formal presentations and in discussions. **Cost:** $7.

Source: Publications Office; American Conference of Governmental Industrial Hygienists; P. O. Box 1937; Cincinnati, OH 45201. Telephone: (513) 825-0312.

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Medical Procedures, Epidemiology, and Diagnosis

Educational or Professional Organization Publications

76. **"Tyler Asbestos Workers Program."** S. D. Greenberg; G. A. Hurst; W. T. Matlage; J. M. Miller; I. J. Hurst; L. C. Mabry. *Annals of the New York Academy of Sciences,* 271:353-64, 1976.

Based on the results of the Tyler Asbestos Workers Program screening and surveillance techniques, the authors conclude that sputum cytopathology is an excellent, simple, painless, and inexpensive means for early detection of malignant and premalignant lesions of the lung.

77. **"Pleuropulmonary Disease Among Asbestos Workers in Relation to Smoking and Type of Exposure."** W. Weiss; P.A. Theodos. *Journal of Occupational Medicine,* 20(5):341-5, May 78.

The article describes a study of asbestos workers which explored the relationship of pulmonary disease and pleural thickening to type of asbestos, age, duration of exposure, and smoking habits.

Health Education Techniques

Government Agency Publication

78. **Informing Workers and Employers About Occupational Cancer: Final Report.** Committee on Public Information in the Prevention of Occupational Cancer; National Research Council. 1977. 42 pp; report.

In order for industrial workers to be adequately warned of carcinogenic risks and of the steps to be taken to minimize such risks, the report recommends that both employees and employers receive instruction on occupational carcinogenesis. The report discusses the issues to be covered, including the broad concepts of carcinogenesis, specific carcinogens, types of cancer with which they are associated, conditions of exposure, and safeguards against exposure. Problem areas and target audiences are defined. **Cost:** (PC-A03) $4.50; microfiche (MF-A01) $3. **Order No.:** PB-269 599.

Source: National Technical Information Service; U. S. Dept. of Commerce; Springfield, VA 22161. Telephone: (703) 557-4650.

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Educational or Professional Organization Publications

79. **"Asbestos-Associated Disease in United States Shipyards."** I.J. Selikoff; E.C. Hammond. *CA-Cancer Journal for Clinicians,* 28(2):87-99, Mar-Apr 78.

Statistics for deaths and lung x-ray abnormalities in shipyard workers during the last decade are presented, along with an analysis by specific occupation, age, and disease. A comparison with control groups not exposed to asbestos is also described. The current status of occupational safety in shipyards is assessed and recommendations are made for reducing the incidence of asbestos-associated disease by educating workers, locating former workers for health check-ups, administering cigarette smoking withdrawal programs, and treating detected disease.

80. **"Health Education - A Responsibility of the Occupational Health Professional."** J.S. Felton. *Journal of Occupational Medicine,* 19(5):346-50, May 77.

In discussing the responsibility of the occupational health professional to provide general health education, the author cites extensive experience with asbestos workers, pointing out that the tragedy of workers with advanced lung disease can be somewhat averted by employee health education programs.

Additional Resources

81. **American Academy of Occupational Medicine;** 801 Old Lancaster Rd.; Bryn Mawr, PA 19010.

The academy is an association of approximately 700 physicians working full-time in the field of occupational medicine. It promotes maintenance and improvement of the health of industrial workers. The official publication of the Academy is the *Journal of Occupational Medicine.*

82. **American Conference of Governmental Industrial Hygienists;** P. O. Box 1937; Cincinnati, OH 45201. Telephone: (513) 825-0312.

The association of industrial hygienists employed by government agencies or educational institutions promotes the sharing of ideas, experiences, and effective industrial health techniques and standards. The development of administrative and technical aspects of worker health protection is its primary objective.

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83. **American Industrial Hygiene Association;** 475 Wolf Ledges Pkwy.; Akron, OH 44311. Telephone: (216) 762-7294.

The association is a professional society of approximately 3700 industrial hygienists. It promotes the study and control of environmental factors affecting the health and well-being of industrial workers. The *American Industrial Hygiene Association Journal* is published monthly.

84. **American Occupational Medical Association;** 150 N. Wacker Dr.; Chicago, IL 60606. Telephone: (312) 782-2166.

A professional society of 3,800 medical directors and plant physicians specializing in industrial medicine and surgery, the association sponsors the Occupational Health Institute to advance education in occupational medicine and industrial health. It also conducts a program of evaluation, approval, and certification of medical services in industry.

85. **Occupational Health Institute;** 150 N. Wacker Dr.; Chicago, IL 60606. Telephone: (312) 782-2166.

The agency supplies professional guidance to industry in the development and maintenance of occupational health programs. It examines and evaluates occupational health programs of industrial organizations, as typified by the in-plant medical department. It is affiliated with the American Occupational Medical Association (see no. 84).

86. **Western Institute for Occupational/Environmental Sciences, Inc.;** 2001 Dwight Way; Berkeley, CA 94704. Telephone: (415) 845-6476.

The Western Institute for Occupational/Environmental Sciences (WIOES) conducts a research and education program supported by organized labor, industry, and community agencies. Concerned physicians conduct clinical research and worker health surveys, provide consulting services, and develop multi-media educational programs to identify and control toxic industrial substances, including asbestos and pesticides.

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EDUCATION MATERIALS FOR HEALTH PROFESSIONALS

EPIDEMIOLOGY, DIAGNOSIS, AND MANAGEMENT

Physician-Oriented Instructional Materials

Educational or Professional Organization Publications

87. **Chest Disease Syllabus.** Series: **Professional Self-Evaluation and Continuing Education Program, Set 1.** R. P. Borden; T. E. Keats; E. G. Theros; W. J. Tuddenham. 1972. 250 pp; programmed text.

The home-study syllabus and test aids radiologists in diagnosing chest diseases, including asbestosis, lung cancer, and mesothelioma. Each chapter consists of several questions, x-ray photos, a discussion, and suggested readings. **Cost:** members, $45; other rates.

Source: American College of Radiology; 20 N. Wacker Dr.; Chicago, IL 60606. Telephone: (312) 236-4963.

88. **Chest Disease (Second Series) Syllabus.** Series: **Professional Self-Evaluation and Continuing Education Program, Set 8.** W. J. Tuddenham; R. P. Barden; R. E. Campbell; A. K. Friedman; E. R. Heitzman, Jr., eds. 1975. 432 pp; programmed text.

A continuation of the **Chest Disease Syllabus, Set 1,** the home-study text consists of case histories with accompanying x-ray photos. It includes questions (with answers), a detailed bibliography, and an index. **Cost:** members, $45; other rates.

Source: American College of Radiology; 20 N. Wacker Dr.; Chicago, IL 60606. Telephone: (312) 236-4963.

89. **Moments of Decision in Lung Cancer: A Self-Testing and Self Instructional Unit.** Commission on Radiation Therapy. 1971. 80+ pp. (uneven pagination); programmed text; paperback.

The programmed text aids radiologists in diagnosing various types of lung cancer, including mesothelioma. A selected bibliography is included. **Cost:** members, $20; nonmembers, $25.

Source: American College of Radiology; 6900 Wisconsin Ave.; Chevy Chase, MD 20015. Telephone: (301) 654-6900.

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90. **X-ray Description of Pneumoconiosis. A Home Study Syllabus.** 32+ pp. (uneven pagination); programmed text; with 27 x-ray films.

The programmed text includes discussions, x-ray films, medical forms, test questions, and a self-evaluation form.

Source: American College of Radiology; 20 N. Wacker Dr.; Chicago, IL 60606. Telephone: (312) 236-4963.

Physician-Oriented Materials, General

Government Agency Publications

91. **Occupational Diseases; A Guide to Their Recognition.** M. M. Key; A. F. Henschel; J. Butler; R. N. Ligo; I. R. Tabershaw; L. Ede, eds. Revised Jun 77. 608 pp; book.

Hazardous chemical, biological, and radioactive agents found in the work environment are comprehensively listed. A chapter on carcinogens lists the agents by name, giving background information on epidemiology and animal testing. Chemical carcinogens are also cited in the section on chemical toxins; radiation carcinogens are included in a chapter on physical agents. **Cost:** $5.25. **Order No.:** 017-033-00266-5.

Source: Superintendent of Documents; U. S. Government Printing Office; Washington, DC 20402. Telephone: (202) 783-3238.

92. **Pulmonary Function Testing In Occupational Medicine.** E. P. Horvath, Jr. May 77. 29 pp; manual.

Routine assessment of pulmonary function for pre-employment evaluation and for periodic medical surveillance in the occupational setting is described. Specific topics covered include: pulmonary anatomy and physiology relevant to screening spirometry; the rationale and requirements of effective pulmonary surveillance; the performance, calculation, and interpretation of selected pulmonary function tests; instrument specifications and calibration; and functional abnormalities produced by certain environmental lung diseases. A complete revised edition will be available Feb 79. **Cost:** free. **Order No.:** Tech Manual 77-1.

Source: Navy Environmental Health Center; 333 Vine St.; Cincinnati, OH 45220. Telephone: (513) 684-3863.

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Industry Publication

93. **Proceedings Fibrous Dust Seminar, 22 Nov 68.** 1970. 77 pp; proceedings.

The proceedings consist of twelve presentations, with follow-up comments and discussions of medical problems associated with exposure of workers to asbestos and other fibrous dusts. The text is accompanied by illustrations and statistical tables. **Cost:** $5.50. **Order No.:** Medical Series, Bulletin 16-70.

Source: Industrial Health Foundation; 5231 Centre Ave.; Pittsburgh, PA 15232. Telephone: (412) 687-2100.

Educational or Professional Organization Publications

94. **Asbestos Related Diseases: A Guide for the General Practitioner.** W. J. Smither. Sep 76. 12 pp; brochure.

A brief description of the international economics of asbestos production is followed by a clinical review of the symptoms, etiology, incidence, pathology, and treatment of asbestosis and mesothelioma. The complications of asbestosis, including brochogenic carcinoma, are also discussed. **Cost:** free.

Source: Asbestosis Research Council; Environmental Control Committee; P. O. Box 18; Cleckheaton; West Yorkshire, BD19 3UJ, United Kingdom.

95. **"Asbestos-Related Diseases of the Lung and Other Organs: Their Epidemiology and Implications for Clinical Practice."** M. R. Becklake. *American Review of Respiratory Disease,* 114(1):187-227, Jul 76.

The characteristics of asbestos and methods of direct and indirect human exposure are comprehensively reviewed, along with the biological effects of inhaled or ingested asbestos particles. The epidemiology, pathology, diagnosis, and clinical management of asbestos-related benign and malignant diseases are also described.

Health-Risk Assessment

Industry Publication

96. **Report of the Advisory Committee on Asbestos Cancers to the Director of the International Agency for Research on Cancer, Lyon, France, Oct. 72.** Oct 72. 8 pp; brochure.

A general review of the risks of asbestos-induced cancer is accompanied by recommendations for future research in epidemiology, pathology, physics, and chemistry. A list of panel participants in these research areas is appended. **Cost:** free.

Source: Asbestos Information Centre, Ltd.; Sackville House; 40 Piccadilly; London, W1V 9PA, United Kingdom. Telephone: 01-439-9231.

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Educational or Professional Organization Publications

97. **"Current Information on the Health Risk of Asbestos."** P. C. Elmes. *Royal Society of Health Journal,* 96(6):248-52, Dec 76.

The medical aspects of asbestos-induced lung disease are reviewed, and the physical properties of asbestos that are related to induction, etiology, and pathology are described. Those factors that are suspected or known to contribute to the development of asbestos-related diseases are reviewed, including the character of asbestos particles and the asbestos manufacturing process, dosage, the mechanisms of lung filtration of airborne asbestos, and the host's pathological reaction to entrapped particles.

98. **"Estimating Health Risks in Studies of the Health Effects of Asbestos."** P. E. Enterline. *American Review of Respiratory Disease,* 113(2):175-80, Feb 76.

Methodologic difficulties that may be encountered in estimating asbestos-associated cancer risks are discussed. While most studies seem to agree on the existence of an excessive cancer risk, it is determined that there is considerable disagreement as to the magnitude of this risk. Of eleven epidemiologic studies, estimates of relative risk for respiratory cancer ranged from 1.2 to 9.2. These variations are reviewed.

99. **"Pitfalls in Epidemiological Research. An Examination of the Asbestos Literature."** P. E. Enterline. *Journal of Occupational Medicine,* 18(3):150-6, Mar 76.

Wide variations in eleven studies of the relative risks of death for asbestos-exposed workers are discussed. Specific problems or pitfalls in epidemiological research are described, and recommendations made for further well-designed studies.

Nurse-Oriented Material

Educational or Professional Organization Publication

100. **"Asbestosis—The Symptoms and Course of the Disease."** W. J. Wright. *Nursing Times,* 72(18):685-6, 6 May 76.

The symptoms and etiology of asbestosis are described, as well as diagnosis, treatment, and possible complications. Several suggestions for treatment and further research are also briefly discussed.

National Cancer Institute, Asbestos and Health: An Annotated Bibliography of Public and Professional Education... Published by AsbestosClaims.Law
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Pharamacist-Oriented Material

Educational or Professional Organization Publication

101. **"Asbestosis: A Reassessment of the Overall Problem."** T. J. Haley. *Journal of Pharmaceutical Sciences,* 64(9):1435-49, 1975.

The chemical, industrial hygienic, animal and human toxicologic and carcinogenic aspects of the asbestosis problem are reviewed. Various asbestos fiber types are analytically identified using different measuring instruments, and biochemical, histological, and histochemical aspects are described. Unsuspected exposure to asbestos fibers via mining, asbestos friction materials, asbestos house insulation, pipe insulation, textile production, and various nonoccupational routes is also discussed and evaluated.

PROFESSIONAL EDUCATION MATERIALS, GENERAL

Regulatory and Legal Action

Government Agency Publications

102. **Occupational Health. Exposure to Asbestos.** 20 Jun 77. 6 pp; standard.

The standard covers occupational exposure to asbestos and includes an interim message change addressing smoking and lung cancer in asbestos workers. The application and scope of the standard are delineated, asbestos terms are explained, and requirements are outlined, including permissible exposure limits, exposure determination and measurement, hygiene facilities and practices, sanitation and housekeeping, caution signs and labels, medical examinations, recordkeeping, and employee information and training. **Cost:** free. **Order No.:** AFOSH Standard 161-4.

Source: Dept. of the Air Force; Headquarters U. S. Air Force; Washington, DC 20330.

103. **"Respirable Free-form Asbestos."** Consumer Product Safety Commission. *Federal Register,* 42(146):38782-91, 1977.

Diseases related to asbestos exposure are reviewed, with reference to occupational, intermittant, and consumer exposure.

National Cancer Institute, Asbestos and Health: An Annotated Bibliography of Public and Professional Education... Published by AsbestosClaims.Law
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104. **Revised Recommended Asbestos Standard.** National Institute of Occupational Safety and Health. Dec 76. 96 pp; standard.

The revised standard covers the biological effects of asbestos, environmental data, and the history and background data for development of the standard. **Cost:** $2.30. **Order No.:** 017-033-00229-1.

Source: Superintendent of Documents; U.S. Government Printing Office; Washington, DC 20402. Telephone: (202) 783-3238.

105. **"Standard for Exposure to Asbestos Dust."** *Federal Register*, 37(110):11318-22, 7 Jun 72.

The standards for asbestos exposure cover acceptable limits of airborne asbestos in the work environment, methods for controlling release of fibers into the air, atmospheric monitoring, health examinations for asbestos workers, labelling of asbestos containers, recordkeeping, and waste disposal.

Safety Measures and Standards
Hazard Identification and Control, General

Government Agency Publications

106. **Asbestos Fiber Atlas. Environmental Protection Technology Series.** P. K. Mueller; A. E. Alcocer; R. L. Stanley; G. R. Smith. Apr 75. 50 pp; atlas.

Electron diffraction patterns and transmission electron microscope pictures of various types of asbestos are shown to help analysts in their identification of airborne asbestos samples. A glossary lists the types of asbestos, approximate chemical composition, and gross appearance. **Cost:** free. **Order No.:** EPA-650-2-75-036.

Source: EPA Library; MD-35; Research Triangle Park, NC 27711. Telephone: (919) 541-2777.

107. **Asbestos: Health Precautions in Industry.** Series: **Health and Safety at Work, 44.** Great Britain Dept. of Employment. 1970. 27 pp; manual.

The booklet describes asbestos regulations, protective equipment, cleaning procedures, and special problems in construction and shipbuilding. An appendix is included. **Cost:** $3. **Order No.:** ISBN 0-11-88-0879-6.

Source: Her Majesty's Stationery Office; Pendragon House of Connecticut, Inc.; P. O. Box 255; Old Mystic, CT 06372. Telephone: (203) 536-1163.

National Cancer Institute, Asbestos and Health: An Annotated Bibliography of Public and Professional Education... Published by AsbestosClaims.Law
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108. **Assessment of Industrial Hazardous Waste Practices, Inorganic Chemicals Industry.** R. G. Shaver; L. C. Parker; E. F. Rissman; K. M. Slimak; R. C. Smith. 1975. 502 pp; manual.

Evaluation of the inorganic chemical industry's waste disposal practices revealed that asbestos is one of the major potentially hazardous constituents identified in the waste streams, usually appearing in concentrations many times higher than the threshold limit. The industry's waste disposal methods are also described. **Cost:** (PC-A22) $15.25; microfiche (MF-A01) $3. **Order No.:** PB-244832.

Source: National Technical Information Service; 5285 Port Royal Rd.; Springfield, VA 22161. Telephone: (703) 557-4650.

109. **Movement of Selected Metals, Asbestos, and Cyanide in Soil: Applications to Waste Disposal Problems.** W. H. Fuller. 1977. 257 pp; report.

The movement of wastes containing asbestos, minerals, and cyanides through soil in municipal landfill leachate was reviewed in order to insure selection and management of disposal sites that would minimize migration hazard. **Cost:** free. **Order No.:** 600/2-77-020.

Source: EPA Library; MD-35; Research Triangle Park, NC 27711. Telephone: (919) 541-2777.

Educational or Professional Organization Publications

110. **"Asbestos Air Pollution."** I. J. Selikoff; W. J. Nicholson; A. M. Langer. *Archives of Environmental Health,* 25:1-13, Jul 72.

The presence of asbestos in the atmosphere, particularly in major cities, is demonstrated by the finding of asbestos fibers in lung tissue of urban and rural dwellers who were not occupationally exposed to asbestos. The health threat of this widely disseminated air pollutant is discussed, and populations exposed to asbestos pollution are defined. Possible means of controlling pollution are also enumerated.

111. **"Asbestos and Its Environmental Impact."** J. S. Horvitz. *Environmental Affairs,* 3(1):145-65, 1974.

The relationship between exposure to asbestos and diseases such as asbestosis, lung cancer, gastrointestinal cancer, and mesothelioma is explained. The legal and regulatory measures that have been taken to reduce these health hazards are reviewed, with reference to the Occupational Safety and Health Act, the Clean Air Act, standards regulating the presence of asbestos in food, drinks, drugs, and water.

National Cancer Institute, Asbestos and Health: An Annotated Bibliography of Public and Professional Education... Published by AsbestosClaims.Law
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112. **"Asbestos-Associated Disease in United States Shipyards."** I. J. Selikoff; E. C. Hammond. *Ca-A Cancer Journal for Clinicians,* 28(2):87-99, Mar-Apr 78.

The principal health hazards of asbestos and the clinical latency of asbestos-associated cancer are summarized. Early and recent studies of asbestos-related diseases in U. S. and foreign shipyard workers are reviewed and illustrated by statistical tables. Recommendations by the authors for ameliorating past mistakes include: dissemination of information about, and avoidance of, additional asbestos exposure; medical surveillance programs; and further assessment of the potential for shipyard asbestos disease.

Source: Also available from American Cancer Society, local units.

113. **"Asbestos—Health Hazards in Perspective. Constructional Uses."** R. T. Kelly. *Royal Society of Health Journal,* 96(6):246-8, Dec 76.

The scientific adviser to the building division of a large city government discusses methods for safer application of asbestos in future construction of homes and public buildings, and for rendering previously installed asbestos safe for building occupants. New building materials blending asbestos with novel fillers are also described.

114. **Public Health Risks of Exposure to Asbestos. Report of a Working Group of Experts Prepared for the Commission of the European Communities, Directorate-General for Social Affairs, Health and Safety Directorate.** R. L. Zielhuis, ed. 1977. 149 pp; book; paperback.

Written by seven Dutch specialists, the book is a preparatory study to the setting of guidelines for asbestos exposure as regards public health. The report describes types, physical composition, and uses of asbestos; examines possibilities of exposure; reviews sampling methods and levels of exposure; describes biological effects; and reviews occupational health risks and exposure limits. The health risks of environmental exposure are evaluated and requisite follow-up studies are described. **Cost:** $15. **Order No.:** ISBN 0-08-0215807.

Source: Pergamon Press, Inc.; Maxwell House; Fairview Park; Elmsford, NY 10523. Telephone: (914) 592-7700.

National Cancer Institute, Asbestos and Health: An Annotated Bibliography of Public and Professional Education... Published by AsbestosClaims.Law
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115. **A Study of the Problem of Asbestos in Water.** M. Kuschner; R. Lee; G. G. Robeck; J. R. Rossum; M. A. Schneiderman; E. W. Taylor; G. W. Wright. *Journal, American Water Works Association:* 1-22, Sep 74.

After investigating the possible health risk of drinking water contaminated by asbestos-cement pipes, the committee concluded that the risk from such potable water systems approaches zero. There is no evidence that ingested (as opposed to inhaled) asbestos can be definitely associated with gastrointestinal cancer, but establishment of standards for measuring waterborne asbestos fiber fragments is suggested, particularly in asbestos cement pipes, and further epidemiological and pathogenic studies are recommended. **Cost:** Reprints, $6 for first copy; $1 each additional copy.

Source: University Microfilms, Inc.; 300 N. Zeeb Rd.; Ann Arbor, MI 48106. Telephone: (313) 761-4700.

116. **"Threat of Asbestos Disease Widens."** *Medical World News,* 17(22):41+, 18 Oct 76.

The pervasive nature of exposure to asbestos and its effects on the health of people who do not actually handle the mineral are reviewed. Such sources of exposure as dislodged asbestos fibers in office fireproofing material, wall sidings spackled with asbestos fibers and compounds, asbestos from brake linings, and asbestos in drinking water are discussed and related to the incidence of lung abnormalities in city dwellers. Legislative efforts to curb dumping of asbestos into the environment are also described.

117. **Workplace Control of Carcinogens. Proceedings of ACGIH Topical Symposium.** 1976. Proceedings.

The papers presented at the October 1976 two-day meeting of experts from universities, industry, labor, and government explored appropriate approaches to recognition (definition), evaluation, and control of workplace carcinogens. **Cost:** $7.

Source: Publications Office; American Conference of Governmental Industrial Hygienists; P. O. Box 1937; Cincinnati, OH 45201. Telephone: (513) 825-0312.

International Organization Publication

118. **Biological Effects of Asbestos. Proceedings of a Working Conference Held at the International Agency for Research on Cancer, Lyon, France, 2-6 Oct 72.** P. A. Bogovskii; W. Davis, eds. 1973. 346 pp; proceedings.

National Cancer Institute, Asbestos and Health: An Annotated Bibliography of Public and Professional Education... Published by AsbestosClaims.Law
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Presentations at the conference on the biological effects of asbestos covered assessments of methods used in the studies of its biological effects; criteria for environmental data and bases for threshold limit values; the asbestos burden in lung and pleura; clinical data in mesothelioma; etiological mechanisms; and asbestosis in relation to the duration of exposure, occupation, dose, and fiber type. **Cost:** $40 plus $1.25 handling. **Order No.:** IARC 8.

Source: International Agency for Research on Cancer (IARC); 150 cours Albert-Thomas; 69008 Lyon, France. **Or:** Q Corp.; 49 Sheridan Ave.; Albany, NY 12210. Telephone: (518) 436-9686.

Safety Measures and Standards
Standards and Recommendations

Government Agency Publications

119. **Background Information on Development of National Emission Standards for Hazardous Air Pollutants: Asbestos, Beryllium and Mercury.** U.S. Environmental Protection Agency. Mar 73. 97 pp; report.

General aspects of all three pollutants, such as applicability of standards and source sampling or analysis, are followed by separate considerations of asbestos, beryllium, and mercury. Health effects, standard development, evaluation of comments, and environmental and economic impacts are among the aspects discussed. **Cost:** free. **Order No.:** APTD-1503.

Source: EPA Library; MD-35; Research Triangle Park, NC 27711. Telephone: (919) 541-2777.

120. **Background Information on National Emission Standards for Hazardous Air Pollutants - Proposed Amendments to Standards for Asbestos and Mercury.** U. S. Environmental Protection Agency. 1974. 141 pp; report.

The basis for the proposed asbestos and mercury standards is discussed, including changes that have been made to improve the uniformity of enforcement and the workability of the standards. The amendments cover use of asbestos in the manufacture of shotgun shells and the operation of asphalt concrete plants, demolition or renovation of buildings containing asbestos products, asbestos fabrication, and disposal of asbestos wastes. Appendixes discuss air cleaning methods and stabilization of waste piles. **Cost:** free. **Order No.:** EPA 450/2-74-009A.

Source: EPA Library; MD-35; Research Triangle Park, NC 27711. Telephone: (919) 541-2777.

National Cancer Institute, Asbestos and Health: An Annotated Bibliography of Public and Professional Education... Published by AsbestosClaims.Law
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121. **Background Information - Proposed National Emission Standards for Hazardous Air Pollutants: Asbestos, Beryllium, Mercury.** U. S. Environmental Protection Agency. Dec 71. 28 pp; report.

The derivation of the proposed national emission standards for asbestos, beryllium, and mercury is traced. For each of the pollutants, information is given on the effects on health, the nature of the air pollution problem, the development of proposed standards, and the expected economic impact of the standards. **Cost:** free. **Order No.:** APTD-0753.

Source: EPA Library; MD-35; Research Triangle Park, NC 27711. Telephone: (919) 541-2777.

122. **Occupational Exposure to Asbestos: Criteria for a Recommended Standard.** National Institute for Occupational Safety and Health. 1972. 1 vol. (various pagings); report.

A new recommended standard for occupational exposure to asbestos is described; more stringent than the current United States standard, it is similar to the one instituted by the British government (Her Majesty's Factory Inspectorate) in 1969. Also recommended are new methods for calculating safe levels of airborne asbestos fibers. **Cost:** $2.10. **Order No.:** 1733-00009-3.

Source: Superintendent of Documents; U. S. Government Printing Office; Washington, DC 20402. Telephone: (202) 783-3238.

Educational or Professional Organization Publications

123. **Documentation of the Threshold Limit Values (For Substances in Workroom Air. . . 1971).** 1977. Report.

The report contains summaries of the data that served as the basis for adopted Threshold Limit Values (TLV). Background information is presented on the limitation, cautions, and intent of each TLV. The 1977 republication of the 1971 documentation, which was a complete review and update of previous works, contains supplemental documentation covering those TLV's adopted between 1971 and 1976. (See also Item No. 126). **Cost:** $20.

Source: Publications Office; American Conference of Governmental Industrial Hygienists; P. O. Box 1937; Cincinnati, OH 45201. Telephone: (513) 825-0312.

National Cancer Institute, Asbestos and Health: An Annotated Bibliography of Public and Professional Education... Published by AsbestosClaims.Law
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124. **"Here's an Update on Asbestos. . ."** G. S. Rajhans. *Occupational Health and Safety*, 46(6):38-43, Nov-Dec 77.

Efforts to standardize safety levels of the two main types of asbestos, chrysotile and crocidolite in the working environment are reviewed chronologically. Methods of asbestos fiber measurements and calculation of exposure (dose versus duration) are discussed, and the safety standards in different countries are described. The most recent standards are those of the United States Environmental Protection Agency (1975), highlights of which deal mainly with the handling of asbestos and products that contain it.

125. **"Standards for the Control of Carcinogens in the Workplace."** *Journal of Occupational Medicine*, 18(2):81-4, Feb 76.

Possible approaches to the problem of establishing standards of carcinogen control are reviewed, including control strategies for environmental asbestos levels. Among the methods discussed for the general control of carcinogens are outright banning, use of permit systems, substitution of safer alternatives, and use of best available technology.

126. **Threshold Limit Values for Chemical Substances and Physical Agents in the Workroom Environment with Intended Changes, 1977.** 1977. 94 pp; booklet.

The pocket-size booklet lists adopted and proposed Threshold Limit Values (TLVs) for more than 500 of the most common toxic substances and physical agents. These TLV's, which are under continuous review, served as the basis for many OSHA permissible limits, and are utilized throughout the world in recognizing, evaluating, and controlling exposures to hazardous conditions. (See also Item No. 123). **Cost:** $1.50; bulk rates.

Source: Publications Office; American Conference of Governmental Industrial Hygienists; P. O. Box 1937; Cincinnati, OH 45201. Telephone: (513) 825-0312.

Safety Measures and Standards
Monitoring and Sampling

Government Agency Publications

127. **Airborne Asbestos Fiber Concentrations in Asbestos Mines and Mills in the United States. Technical Progress Report 72.** L.A. Schultz. Jun 73. 15 pp; report.

The Bureau of Mines surveyed asbestos open-pit mines and milling plants to determine the concentration of airborne asbestos fibers in the workplace and to establish the exposure limits of workers to such fibers. The survey methods are described, and tabulated results compared for the various categories of workers. Findings of the survey, which showed generally safe levels of asbestos fiber in asbestos mines and unsafe levels in many areas of milling plants, are discussed. **Cost:** free. **Order No.:** TPR 72.

Source: Publications Distribution Branch; Bureau of Mines; 4800 Forbes Ave.; Pittsburgh, PA 15213. Telephone: (412) 621-4500, ext. 8342.

National Cancer Institute, Asbestos and Health: An Annotated Bibliography of Public and Professional Education... Published by AsbestosClaims.Law
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128. **Asbestos Contamination of the Air in Public Buildings.** W. J. Nicholson; A. N. Rohl; I. Weisman. Oct 75. 59 pp; report.

In various cities, air samples were taken outside of and within nineteen buildings that incorporated asbestos in their structure or as fire insulation. Air contamination was noted where fibrous, dry-spray asbestos was used, but not when the asbestos was incorporated into cement. The report recommends future monitoring guidelines and procedures for removal of dangerous asbestos sources in existing buildings and during demolition. **Cost:** free. **Order No.:** EPA-450/3-76-004.

Source: EPA Library; MD-35; Research Triangle Park, NC 27711. Telephone: (919) 541-2777.

129. **Development of an Instrumental Monitoring Method for Measurement of Asbestos Concentrations in or Near Sources. Environmental Protection Technology Series.** A. Pattnaik; J. D. Meakin. Jun 73. 47 pp; report.

The report describes the development of a methodology for determining the amount and type of airborne asbestos particles near sources of asbestos emissions as well as in ambient air samples. The principle of the method is a scanning electron microscope with microprobe and image analysis capabilities. **Cost:** $5.25. **Order No.:** PB 226471.

Source: National Technical Information Service; 5285 Port Royal Rd.; Springfield, VA 22161. Telephone: (703) 557-4650.

130. **National Institute for Occupational Safety and Health Manual of Analytical Methods.** Vol. 1. 2nd Edition. Apr 77. 807 pp; manual.

Technical details of the equipment and procedures are described for collecting, mounting, and counting asbestos fibers on cellulose ester membrane filters in personally collected air samples. The purpose of the method is to determine an employee's index of exposure to airborne asbestos fibers. The method is primarily a personal monitoring technique, but it can be used for area monitoring. Other analytical methods are included in the manual. **Cost:** $8.75. **Order No.:** 017-033-00267-3.

Source: Superintendent of Documents; U.S. Government Printing Office: Washington, DC 20402. Telephone: (202) 783-3238.

National Cancer Institute, Asbestos and Health: An Annotated Bibliography of Public and Professional Education... Published by AsbestosClaims.Law
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131. **Electron Microscope Measurement of Airborne Asbestos Concentrations. A Provisional Methodology Manual. Environmental Protection Technology Series.** A. V. Samudra; C. F. Harwood; J. D. Stockham. Aug 77. 47 pp; manual.

A provisional optimal method for measuring airborne asbestos particles is described, based on filtering the air sample through a polycarbonate membrane and examing the deposited fibers under a transmission electron microscope. Individual fibers can be further selected from the microscope field for identification in situ by their electron diffraction patterns. The analytical data supporting this provisional methodology is included in a separate final report. **Cost:** free. **Order No.:** EPA-600/2-77-178.

Source: EPA Library; MD-35; Research Triangle Park, NC 27711. Telephone: (919) 541-2777.

132. **Experimental Determination of the Number and Size of Asbestos Fibers in Ambient Air.** W. John; A. Berner; G. Smith; J. Wesolowski. 1976. 45 pp; report.

Airborne asbestos concentrations were analyzed by transmission electron microscopy to determine size and number of fiber distribution. It was discovered that downwind concentrations were much greater than upwind, and that fibers shorter than the pore size penetrated the filters. The principal sources of the emissions were also described. **Cost:** (PC-A03) $4.50; microfiche (MF-A01) $3. **Order No.:** PB-254086.

Source: National Technical Information Service; 5285 Port Royal Rd.; Springfield, VA 22161. Telephone: (703) 557-4650.

133. **Identification and Assessment of Asbestos Emissions from Incidental Sources of Asbestos. Environmental Protection Technology Series.** R. J. Kuryvial; R. A. Wood; R. E. Barrett. Sep 74. 329 pp; report.

The study attempted to determine the potential risk of asbestos emissions resulting from mining ores in which asbestos occurs as an accessory mineral. Ambient air samples were taken at two large mining sites. No significant elevations of atmospheric asbestos fiber near these operations were revealed. Because of the limited sampling, however, it would not be valid to apply these findings to all possible sources. The report contains numerous maps of the distribution of asbestos-containing sources in the United States. **Cost:** free. **Order No.:** EPA-650/2-74-087.

Source: EPA Library; MD-35; Research Triangle Park, NC 27711. Telephone: (919) 541-2777.

National Cancer Institute, Asbestos and Health: An Annotated Bibliography of Public and Professional Education... Published by AsbestosClaims.Law
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134. **Quantitative Analysis of Airborne Asbestos by X-Ray Diffraction: Final Report on Feasibility Study. Environmental Protection Technology Series.** L. S. Birks; M. Fatemi; J. V. Gilfrich; E. T. Johnson. Jan 75. 11 pp; report.

A special technique for aligning asbestos particles is described, by means of which chrysotile asbestos is distinguished from serpentine and other clay minerals during x-ray diffraction analysis. A limit of 0.2 µg chrysotile can be detected in the absence of extraneous material from real air samples. **Cost:** free. **Order No.:** EPA-650/2-75-004.

Source: EPA Library; MD-35; Research Triangle Park, NC 27711. Telephone: (919) 541-2777.

135. **Survey of Manual Methods of Measurements of Asbestos, Beryllium, Lead, Cadmium, Selenium, and Mercury in Stationary Source Emissions. Environmental Monitoring Series.** D. M. Coulson; D. L. Haynes; M. E. Balazs; M. P. Dolder. Sep 73. 159 pp; report.

Selected methods used to analyze asbestos and other elements in air emissions are described, as well as the results of analysis of baghouse exhausts. A detailed description of asbestos assay methods, chiefly electron microscopy, is appended. **Cost:** free. **Order No.:** EPA-650/4-74-015.

Source: EPA Library; MD-35; Research Triangle Park, NC 27711. Telephone: (919) 541-2777.

136. **Unbiased Estimates of Coefficients of Variation for Asbestos Counting Determined from Johns-Manville Data.** K. A. Busch; N. A. Leidel; R. W. Hornung; R. J. Smith. In: *Proceedings of the Society for Occupational and Environmental Conference "Occupational Exposure to Fibrous and Particulate Dust and their Extension into the Environment," Dec. 1977, Washington, D.C.*

The effects of pumping rates during fiber collection, counting errors, and other variables are mathematically analyzed in relation to the asbestos sampling procedure of the National Institute for Occupational Safety and Health. New formulas and procedures intended to improve accuracy are also described.

National Cancer Institute, Asbestos and Health: An Annotated Bibliography of Public and Professional Education... Published by AsbestosClaims.Law
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Non-U. S. Organization Publications

137. **Dust Sampling Procedures for Use with the Asbestos Regulations, 1969.** Asbestosis Research Council. 1971. 7 pp; guidelines.

Guidance is given on practical methods for sampling airborne asbestos dust, as required by the 1969 asbestos regulations. Ten-minute and four-hour samplings are described, and details of apparatus and procedures are presented. **Cost:** free.

Source: Asbestosis Research Council; P. O. Box 18; Cleckheaton, West Yorkshire BD19 3UJ, United Kingdom.

138. **The Measurement of Airborne Asbestos Dust by the Membrane Filter Method.** Asbestosis Research Council. Revised 1971. 10 pp; manual.

A method of measuring dust concentrations as required by the 1969 asbestos regulations is described. Short definitions of basic terms are given, and necessary equipment, sampling procedures, sample fixing and mounting methods, counting procedures, and the method of evaluating the results are discussed. An appendix provides a specification for a phase microscope suitable for counting asbestos dust particles. **Cost:** free.

Source: Asbestosis Research Council; P. O. Box 18; Cleckheaton, West Yorkshire BD19 3UJ, United Kingdom.

Safety Measures and Standards
Control Technology

Government Agency Publications

139. **Asbestos. The Need for and Feasibility of Air Pollution Controls.** Series: **Biologic Effects of Atmospheric Pollutants.** National Research Council, Committee on Biological Effects of Atmospheric Pollutants. 1971. 40 pp; brochure.

Two panels of experts, one on asbestos and the other on biologic effects of atmospheric pollutants, present their findings on the pathogenicity of asbestos, evidence of exposure and estimated risk in nonoccupational environments, and sources of atmospheric asbestos fiber. Principles of control and research needs are discussed, and recommendations presented. **Cost:** $4.50. **Order No.:** 1927.

Source: National Academy of Sciences; Attn: Printing and Publishing Offices; 2101 Constitution Ave., N.W.; Washington, DC 20418. Telephone: (202) 389-6731. **Or:** (microfiche only) National Technical Information Service; 5285 Port Royal Rd.; Springfield, VA 22161. Telephone: (703) 321-8543.

National Cancer Institute, Asbestos and Health: An Annotated Bibliography of Public and Professional Education... Published by AsbestosClaims.Law
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140. **Field Testing of Emission Controls for Asbestos Manufacturing Waste Piles. Environmental Protection Technology Series.** C. F. Harwood; P. K. Ase. May 77. 135 pp; report.

Primary sources of asbestos dust emissions are identified and various methods of controlling short-term and long-term emission (e.g., from dump areas) are reviewed for cost and antipollution effectiveness. The report includes tables, diagrams, and photographs. **Cost:** free. **Order No.:** EPA-600/2-77-098.

Source: EPA Library; MD-35; Research Triangle Park, NC 27711. Telephone: (919) 541-2777.

Educational or Professional Organization Publication

141. **"Dust Control Techniques in the Asbestos Industry."** J. Goldfield; F. E. Brandt. *American Industrial Hygiene Association Journal:* 799-808, Dec 74.

Process changes, leaktight equipment, industrial exhaust systems, and dust filters used to control dust exposure in mining, milling, and manufacturing are described. Examples from asbestos mills, asbestos-cement pipe plants, and textile operations are given. Also discussed are belt conveyors, vibrating screens, bag opening stations, machine hoods, textile cards, duct design, and filter selection.

Source: A reprint is available free from Johns-Manville; Health, Safety & Environment Dept.; Ken-Caryl Ranch; Denver, CO 80217. Telephone: (303) 773-1000, ext. 3120.

Safety Measures and Standards
Risk-Benefit Analysis

Government Agency Publication

142. **Hazardous Wastes: A Risk-Benefit Framework Applied to Cadmium and Asbestos. Socioeconomic Environmental Studies Series.** U. S. Environmental Protection Agency, Office of Health and Ecological Effects. Feb 77. 259 pp; report.

The risk-benefit ratio of more stringent control of asbestos and cadmium contamination of the environment is analyzed in detail. The analysis focuses on cadmium and asbestos as examples of land waste disposal problems, but also estimates waste quantities in air and water. Effects of uncertainties in the individual estimates on overall confidence limits, resultant decision criteria, and research needs are evaluated. Current levels of pollution, exposure of humans, health effects, and costs of alternative control standards are discussed. An extensive bibliography is included. **Cost:** free. **Order No.:** EPA-600/5-77-002.

National Cancer Institute, Asbestos and Health: An Annotated Bibliography of Public and Professional Education... Published by AsbestosClaims.Law
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Source: EPA Library; MD-35; Research Triangle Park, NC 27711. Telephone: (919) 541-2777.

Educational or Professional Organization Publication

143. **"Risk-Benefit Analysis for Industrial and Social Needs."** K. D. Moll; D. P. Tihansky. *American Industrial Hygiene Association Journal,* 38(4):153-61, Apr 77.

The study develops a decision method for evaluating the social acceptability of industrial controls on hazardous materials. Decisions are based on a "multiple criteria approach" that jointly considers factors such as risk-benefit tradeoff, minimum reducible health risk, maximum acceptable cost, and implicit value of human life.

Data Compilations and Literature Reviews
Compilations

Government Agency Publication

144. **National Inventory of Sources and Emissions: Cadmium, Nickel, and Asbestos - 1968.** Asbestos, Section III. W. E. Davis & Associates. Feb 70. 46 pp; report.

The nature, magnitude, and extent of atmospheric emissions of asbestos in the United States during 1968 is described. Background information concerning the basic characteristics of the asbestos industry is included, as well as process descriptions. **Cost:** (PC-A03) $4.50; microfiche (MF-A01) $3. **Order No.:** PB 192252.

Source: National Technical Information Service; 5285 Port Royal Rd.; Springfield, VA 22161. Telephone: (703) 557-4650.

Industry Publications

145. **The Asbestos Factbook.** 1970. 27 pp; brochure.

The chemical and physical properties of asbestos, its production, consumption, mining locations, industrial grades from various sources, and applications, are concisely described with text and tables. **Cost:** $1.

Source: Asbestos; P. O. Box 471; Willow Grove, PA 19090. Telephone: (215) 659-0134.

National Cancer Institute, Asbestos and Health: An Annotated Bibliography of Public and Professional Education... Published by AsbestosClaims.Law
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146. **Asbestos Minerals in Modern Technology.**

Designed for technical education purposes, the report reviews the occurrence of asbestos; its crystal structure, chemical composition, surface and chemical characteristics, synthesis, and physical properties; and the identification and sources of the fiber. **Cost:** free.

Source: Johns-Manville; Health, Safety & Environment Dept.; Ken-Caryl Ranch; Denver, CO 80217. Telephone: (303) 979-1000, ext. 3120.

International Organization Publication

147. **Asbestos.** Series: **IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man.** Vol. 14. 1977. 106 pp; monograph.

The carcinogenic risk of asbestos, based on all available data published or accepted for publication up to December 1976, is evaluated. Discussions of six fibrous silicates of asbestos cover: chemical and physical data; production, use, occurrence, and detection of asbestos; and biological data relevant to the evaluation of carcinogenic risk to man. **Cost:** $7 plus $1.25 handling.

Source: International Agency for Research on Cancer (IARC); 150 cours Albert-Thomas; 69008 Lyon, France. **Or:** Q Corp.; 49 Sheridan Ave.; Albany, NY 12210. Telephone: (518) 436-9686.

Literature Reviews

Government Agency Publications

148. **Asbestos and Air Pollution: An Annotated Bibliography.** U. S. Environmental Protection Agency, Air Pollution Technical Information Center. Feb 71. 101 pp; bibliography.

One-hundred and sixty annotated references address the general aspects of asbestos pollution, emission sources, assay and sampling, methods for pollution control, effects on human health, and basic science and technology. Title, subject, author, and geographical location indexes are appended. **Cost:** free. **Order No.:** AP-82.

Source: EPA Library; MD-35; Research Triangle Park, NC 27711. Telephone: (919) 541-2777.

National Cancer Institute, Asbestos and Health: An Annotated Bibliography of Public and Professional Education... Published by AsbestosClaims.Law
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149. **Asbestos Toxicity--January 1970 Through July 1977.** G. D. Nowak. 1977. 47 pp; bibliography.

The National Library of Medicine (NLM) literature search includes 698 citations to articles dealing with the biological effects, risks, and hazards of exposure to asbestos in the industrial, municipal, home, and experimental environments. Emphasis is on asbestos and asbestos-related diseases, particularly respiratory effects and cancer in humans exposed to asbestos fibers and dust. Also included are other adverse effects; poisoning; toxicologic studies in humans and experimental animals; methods of analysis of asbestos in air, water, soil, food, beverages, household products, and other known or suspected sources; techniques for controlling the pollutant; minimum standards for exposure; and occupational and public health measures to prevent the asbestos-related disorders. References to recent articles are selected from some 3,000 biomedical journals included in *Index Medicus,* and were retrieved from the MEDLINE data base. **Cost:** free. **Order No.:** 77-14.

Source: National Library of Medicine; Reference Dept.; 8600 Rockville Pike; Bethesda, MD 20014. Telephone: (301) 496-6095.

150. **Occupational Safety and Health: A Bibliography.** U. S. Department of Labor. 1974. 363 pp; bibliography.

The bibliography includes a section on asbestos contamination that lists more than 50 references with short annotations. The references, arranged according to author, cover all aspects of asbestos and health, including occupational exposure to asbestos. **Cost:** (PC-A16) $12.50; microfiche (MF-A01) $3. **Order No.:** PB-230147.

Source: National Technical Information Service; 5285 Port Royal Rd.; Springfield, VA 22161. Telephone: (703) 557-4650.

151. **Preliminary Air Pollution Survey of Asbestos: A Literature Review.** R. J. Sullivan; Y. C. Athanassiadis. Oct 69. 93 pp; report.

The current status of efforts to measure asbestos air pollution levels near asbestos-emitting sources and in cities is examined. While noting that air sampling methods are inadequate, the survey goes on to identify possible environmental asbestos sources and their effects on humans. Appendixes contain a variety of general information on asbestos. **Cost:** free. **Order No.:** APTD 69-27.

Source: EPA Library; MD-35; Research Triangle Park, NC 27711. Telephone: (919) 541-2777.

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Educational or Professional Organization Publication

152. **"A Health View of Asbestos: An Annotated Literature Collection—1960-74."** J. E. Huff; C. Y. Dinger; B. W. Kline; B. L. Whitfield; A. S. Hammons. *Environmental Health Perspectives,* 9:341-462, Dec 74.

Five hundred and forty-nine references covering the period 1960-1974, with emphasis on the hazards and clinical aspects of asbestos, are listed. The annotated references are arranged by year and indexed by author, title, and key terms. The collection is updated and published on a periodic basis.

Additional Resource

153. **Occupational Cancer Data Bank;** George Washington University Medical Center; 2300 Eye St., N.W.; Washington, DC 20037. Telephone: (202) 833-2031.

The Occupational Cancer Data Bank (OCDB) at George Washington University is a collection of international literature covering all aspects of occupational cancer. Subject bibliographies, including one on asbestos, are compiled from articles available at the Medical Center. Other occupational cancer bibliographies are compiled from National Institute for Occupational Safety and Health computer citations and Excerpta Medica citations stored in the OCDB.

Asbestos Industry-General Information

Industry Publication

154. **Asbestos Products Industry.** 1 p; fact sheet.

A schematic diagram describes the flow of asbestos-containing products from primary sources, such as floor tile, cement pipe, and paint products, via the secondary manufacturing industries, such as automotive plants and roofing material manufacturers, to the consumer industries that install or use the finished product. **Cost:** free.

Source: Asbestos Information Association/North America; 1745 Jefferson-Davis Hwy.; Arlington, VA 22202. Telephone: (703) 979-1150.

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Public Education Approaches

Government Agency Publications

155. **Asbestos: An Informational Resource.** R. J. Levine, ed. May 78. 105 pp; monograph.

The physical and chemical properties, production, consumption, occupational and nonoccupational human exposure, and health effects of asbestos are presented from the perspective of cancer risk. Methods of controlling asbestos exposure through engineering design and other physical restraints, public education, and medical management are discussed. Extensive appendixes list smoking cessation programs, educational materials, research studies, federal regulations, and references. **Cost:** free.

Source: National Cancer Institute; Div. of Cancer Control and Rehabilitation; Blair Bldg., Rm 723; 8300 Colesville Rd.; Silver Spring, MD 20910. Telephone: (301) 427-7993.

156. **Asbestos Exposure: A Desk Reference for Cancer Communicators.** National Cancer Institute, Office of Cancer Communications. 1978. 16 pp; brochure.

Twenty-two questions about the health hazards encountered by past and present asbestos workers (particularly those employed in shipyards) are answered. Such aspects as the various kinds of asbestos-induced disease, the concomitant effect of cigarette smoking, and sources of further information are discussed. **Cost:** free. **Order No.:** DHEW (NIH) 78-1622.

Source: National Cancer Institute; Office of Cancer Communications; Bldg. 31, Rm. 10A18; 9000 Rockville Pike, Bethesda, MD 20014.

157. **Physician Advisory-Health Effects of Asbestos.** J. B. Richmond. 25 Apr 78. 3 pp; memorandum.

The advisory notice is designed to assist physicians in dealing with public and patient inquiries about asbestos exposure. Asbestos-related diseases (with emphasis on latency periods) are reviewed, and clinical management procedures are suggested, including obtaining a detailed, lifetime exposure history, emphasizing smoking cessation, and screening exposed individuals for cancer symptoms. **Cost:** free.

Source: Department of Health, Education, and Welfare; Office of the Surgeon General of the Public Health Service; Washington, DC 20201. Telephone: (202) 655-4000.

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158. **Public Information in the Prevention of Occupational Cancer. Proceedings of a Symposium, 2-3 Dec 76.** T. P. Vogl, ed. 1977. 211 pp; proceedings.

The proceedings contain an historical perspective of occupational carcinogens and a discussion of carcinogens in the workplace today. Carcinogens are defined and a variety of informational and educational topics are addressed, including the employee's right to know, educational programs, and informing the nonunion and small plant worker. **Cost:** (PC-A10) $9.25; microfiche (MF-A01) $3. **Order No.:** PB-265650.

Source: National Technical Information Service; 5285 Port Royal Rd.; Springfield, VA 22161. Telephone: (703) 557-4650.

159. **Smoking and Health: An Annotated Bibliography of Public and Professional Education Materials.** 1978. 75 pp; bibliography.

The selected, annotated bibliography contains approximately 300 citations to U.S. and Canadian print and nonprint materials and programs on smoking. Among the topics are education, risk and prevention, cessation, nonsmokers' rights, and legislation. Spanish-language materials are included, as are serial publications, reports, and teaching aids; journal articles are excluded. Complete source, cost, and order information is provided for each entry. **Cost:** free.

Source: National Cancer Institute; Office of Cancer Communications; Cancer Information Clearinghouse; 7910 Woodmont Ave., Suite 1300; Bethesda, MD 20014. Telephone: (301) 496-4070.

160. **Statement of Secretary Joseph A. Califano, Jr., Department of Health, Education, and Welfare (HEW).** 26 Apr 78. 8 pp; news release.

Steps to be taken by the federal government to inform physicians, workers, and others about the increased risks of asbestos exposure are announced. These steps include mailing of an advisory letter from the Surgeon General to all doctors (see item no. 157), launching of a public information campaign by HEW, and consideration by the HEW team of other measures, such as improved surveillance, to deal with the problem. Past asbestos exposure risks are estimated, with emphasis on the synergistic effect of asbestos and smoking. Governmental interagency cooperation is urged. **Cost:** free.

Source: Secretary Joseph A. Califano, Jr.; U. S. Department of Health, Education, and Welfare; 200 Independence Ave., S.W.; Rm. 638E; Washington, DC 20201. Telephone: (202) 245-6343.

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Educational or Professional Organization Publication

161. **"These Smokers Were Exposed to Asbestos Dust."** B. H. Ellis. *American Lung Association Bulletin,* 64(2):2-6, Mar 78.

Due to the high incidence of cancer and other lung diseases anticipated for asbestos workers of Tyler, Texas, two programs were established to reduce this hazard. One, the Tyler Asbestos Workers Program (TAWP), provides a semiannual medical examination of former workers. The other, directed by the author of this article, is called the Smoking and Health Information Program (SHIP), and serves to recruit former workers into TAWP and to persuade them to either quit or modify their smoking habit by means of a personalized smoking cessation program. Success rates of SHIP indicate its applicability to other industrial settings.

Non-U.S. Organization Publication

162. **Proceedings of the Second Annual Conference on Smoking and Health. "Smoking and Work," Jan 9-11, 77, Quebec.** 1977. 143 pp; proceedings; bilingual (English; French).

Nine brief reports discuss the smoking problem, particularly in schools, in health care institutions, and in the asbestos industry. Recommendations by workshop participants are also aimed at these specific target groups. Statistics on the interrelationship of smoking and asbestos-related disease are included. **Cost:** free.

Source: Canadian Council on Smoking and Health; 343 O'Connor; Ottawa, Ontario K-2P-1V9, Canada. Telephone: (613) 236-6035.

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