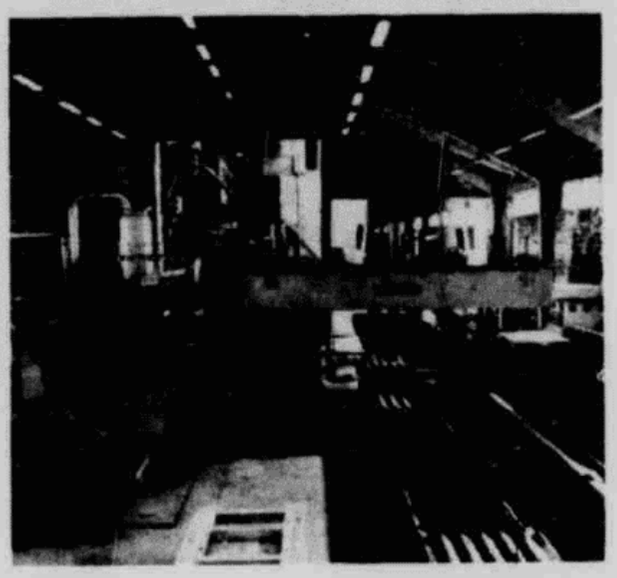
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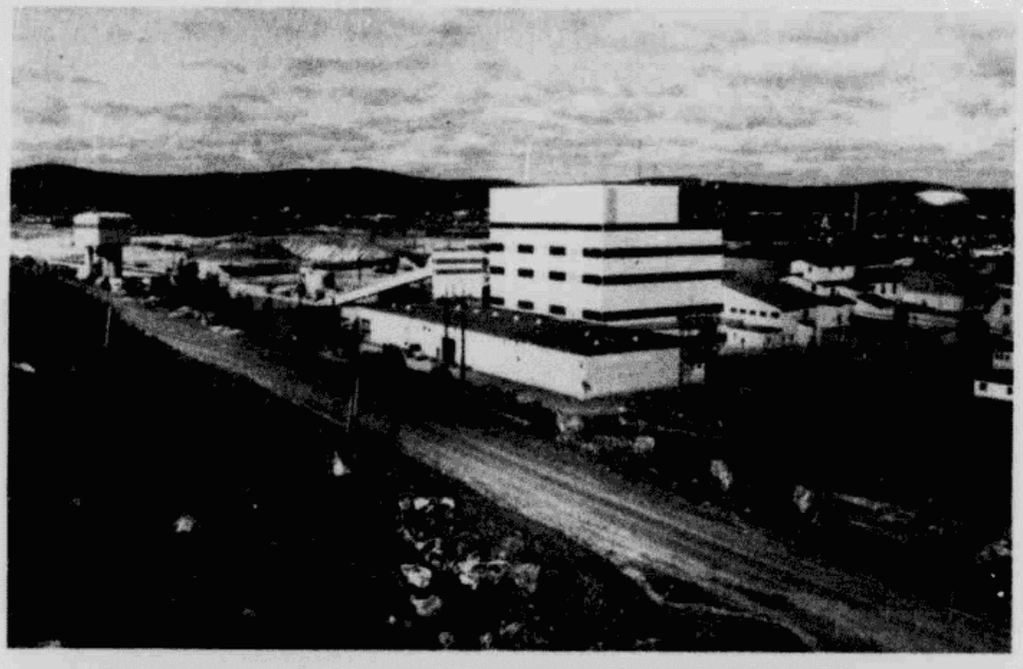
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COMPANY & PRODUCT UPDATE

FMC PROPOSES NATIONAL EXPORT POLICY

The fundamental requirements of an effective *National Export Policy* were set forth in an address before the 41st Chicago World Trade Conference by R. H. Malott, Chairman and Chief Executive Officer of *FMC Corporation*, Chicago, Illinois. In stressing the need for such a policy, Mr. Malott said that current international realities no longer permit Americans to be indifferent to the need to increase U.S. exports. Today one out of every eight jobs in manufacturing is export related, one out of every three acres of U.S. farmland produces for export and one-third of corporate profits is derived from international activities—yet exports account for only 7.6% of U.S. Gross National Product. Although exports have never been more important to the economic health of the United States, recent years have witnessed a dramatic decline in the U.S. competitive position vis-a-vis Europe and Japan. In 1976 the nation exported just 12% of its manufactured goods compared to about 30% for Japan and 50% for Germany. An increase of U.S. exports as a percentage of GNP of only 1.5% would overcome the U.S. huge trade deficit, reverse the decline of the U.S. dollar and create domestic employment. This goal is certainly attainable, said Mr. Malott, but it will require a concerted effort. Foreign counterparts are motivated to export, as they benefit from a great number of export incentives and promotional devices. U.S. exporters work without similar incentives and have been hamstrung by government policies and regulations—all of which serve to make U.S. products uncompetitive and discourage exports. The results have been a soaring U.S. trade deficit, a plummeting dollar, unacceptable structural unemployment and a strong resurgence of inflation.

QUEBEC CONTINUES ASBESTOS RESEARCH

At press time it was learned that the *University of Sherbrooke* would submit its report on the *asbestos research program* begun September 1977 under the financing of $250,000 by the *Quebec Ministry of Natural Resources.* At the same time, Yves Berube, Quebec Minister of Natural Resources, was to announce a continuation of the research and an additional financing of $735,666 to cover eight projects to be undertaken by the University, three new studies plus five of the six former projects. Included in the announcement was to be a definition of the grants and endeavors involved and an outline of financing of the new Research and De-

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velopment Center for Asbestos, proposed by the Quebec Asbestos Policy. The three new projects are a study of the fabrication of light aggregates from asbestos tailings ($317,500), research into possible electro-chemical applications of asbestos ($34,000) and an investigation into the possibility of issuing a catalog listing some 3000 asbestos products ($32,000). The one project not to be continued is the technique of extracting magnesium hydroxides and carbonates from asbestos tailings. This project has now reached the pilot plant stage of development. A brief interview with Donald Roy, Press Secretary for The Hon. Berube, initiated the reaffirmation that the purpose of the research is two-fold, i.e., to increase the use of Quebec asbestos within the Province and to enter into joint ventures with manufacturers willing to relocate or open new plants in Quebec.

A/C USED IN AFRICAN UNIVERSITY

Asbestos cement is the principal covering material used in a new university complex in Africa, built under the auspices of the *Canadian International Development Agency* and designed by *Labelle, Marchand, Geoffroy,* architects based in Montreal, Quebec. The fibro-cement products used in the construction of the nine buildings of the *College Polytechnique Universitaire,* at Abomey-Calavi, near Cotonou, the capital of Benin (formerly Dahomey), amount to nearly 316-million square feet of asbestos-cement materials, all manufactured by Atlas Asbestos Co. Ltd. at its plant in Montreal. The supply and installation cost some $450,000. The roofing on the buildings consists of corrugated Trafford tiles. Needed to complete this part of the project were 6,800 sheets, 2,417 molded parts and 2,819 standard accessories. In addition, the capping of the roofs and the oblique walls are covered with 2,091 flat, a-c sheets and 4,934 molded louvers were used in the construction of the wind-shielding walls which close off the ends of the two-sided roofs. Asbestos-cement products were selected because they are sturdy, exceptionally resistant to climatic and other erosion conditions, easy to install and free from maintenance.

TEXTILE MACHINERY MANUAL

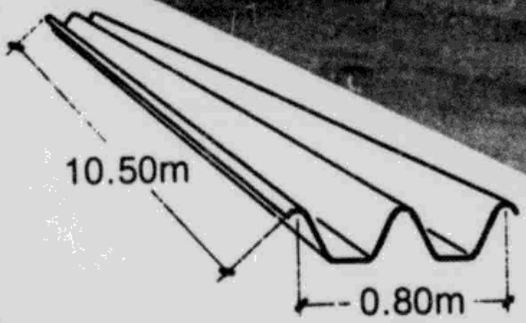
The *American Textile Machinery Association* has published the 2nd annual edition of *Textile Machinery Trends,* a 128-page compendium of data on the textile machinery and textile industries. The statistics manual is designed to assist U.S. manufacturers of textile machinery, parts, attachments and supplies in de-

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termining market potentials and competitive positions. Among the data offered are the latest estimates of monthly orders, shipments and backlogs of U.S. machinery makers, by category, and monthly estimates of the U.S. textile industry's consumption of those products. The publication includes information on textile machinery employment, payroll, etc., to assist in determining manufacturing efficiency and gives financial, capital expenditure, projection and productivity data to help improve market planning efforts. Also covered are current figures on the foreign destinations of U.S. exports and the sources of U.S. machinery imports, by product category. [$100.00 per copy]

TREASURY REVISES ANTIDUMPING RULES

The *U.S. Department of the Treasury* announced a *revised regulation* for the valuation of merchandise from state-controlled economies under the *Antidumping Act.* The amended regulations provide that in determining the fair value of merchandise from a state-controlled-economy country through comparisons with prices or the constructed value of merchandise in a country or countries not regarded as having a state-controlled economy, the Secretary of the Treasury may give recognition to the level of economic development and to relative efficiencies or natural advantages in the state-controlled-economy country. The amendments also provide that antidumping petitions which involve merchandise from a state-controlled-economy country should contain information pertinent to the new procedures. The regulation was first proposed in January 1978 and has been under intensive study since then. It is being adopted on a trial basis and will be reconsidered in the light of experience.

SOUTHERN IS IN OSHA COMPLIANCE

The *U.S. Occupational Safety and Health Administration* has notified *Southern Asbestos Company,* Charlotte, North Carolina, that it is in full compliance with all OSHA regulations for manufacturers of asbestos textiles. When the Asbestos Standard was first introduced, Southern made some basic management decisions. First it determined there would be an asbestos market to justify the required cash expenditure to get into compliance with the regulation. Secondly, Southern made a firm commitment to develop whatever technology was needed to meet the regulation and to earmark its resources toward designing and purchasing the necessary equipment and machinery. In the spinning and twisting areas, for example, this meant the complete replacement of all

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existing machines with the most modern equipment available. In other areas, the company designed and built enclosures and installed additional exhaust equipment and an air system with dust bag collectors. An initial investment of $5-million was required.

NEW NAME FOR C.J-M

Canadian Johns-Manville Co. Ltd., Asbestos, Quebec, has changed its name to *Johns-Manville Canada Inc.* With annual sales of $276-million and a total employment of 4,200, J-M Canada is a major manufacturer of thermal insulations and refractories, municipal water and sewer pipe and a wide range of industrial products. It also produces residential and industrial lighting fixtures and accessories under the Holophane name and operates the largest asbestos mine in the western world. The company's manufacturing plants are located in Montreal, Toronto, Fort Saskatchewan and Innisfail, Alberta.

PORTER/THERMOID RECEIVES KUDOS

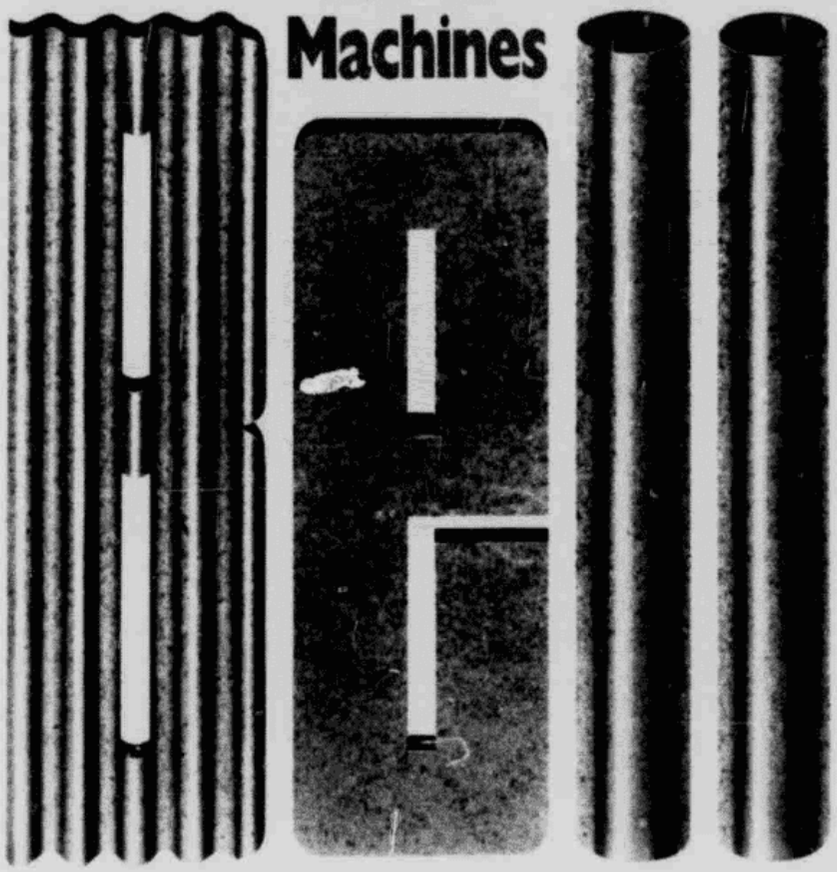
The *Automotive Service Industry Association* honored the *Thermoid Division of H. K. Porter Company, Inc.*, Huntington, Indiana, in recognition of "exemplary and enduring service to the community and to the industry." In presenting the *Distinguished Service Award*, it was noted that Porter represents the finest type of independent business whose foresight, initiative and faith in the future of the United States has contributed to the growth of the free enterprise system and to the growth of the automotive service industry. Thermoid has a 50-year history of manufacturing clutch facings, brake linings, disc brake pads and heavy-duty brake blocks at the Huntington facility.

CENTRAL OFFICE FOR R/M COMPANY

A 33,000-square-foot office building will be built on a site adjacent to the Corporate Headquarters of *Raybestos-Manhattan, Inc.*, Trumbull, Connecticut, to provide a *centralized headquarters office for the RM Friction Materials Company*. Expected to be ready for occupancy by early 1979, the building will house all RMFMCo people now located in the corporate building as well as those currently working in leased offices in Milford and elsewhere. The space which will become vacant will be used for R/M's centralized Management Information Systems operation and new computer hardware. Financing of the new construction will be by Connecticut Industrial Development Bonds.

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MARKET CONDITIONS

GENERAL BUSINESS

Final figures for the second quarter resulted in an adjusted gross national product growth of 8%, a healthy improvement over the 7.4% previously reported. Business continued to improve somewhat in July with a 0.5% gain in industrial production and maintenance of the previous high rate of housing starts.

The recovery, up to now, has been largely fueled by consumer spending and much of the recent strength, particularly in "big ticket" items, has resulted from efforts to beat inflationary price increases. As a result, consumer installment debt has risen to extremely high levels and may be approaching an unsustainable figure. This could lead to a contraction in consumer spending which, in fact, seems to have started leveling off in June. In the absence of any sharp increase in capital expenditures, the late 1978 slowdown predicted by so many observers could very well occur. Whether this could turn into a 1979 mini-recession is a moot point.

After-tax profits in the second quarter showed a substantial gain over those for the first quarter. However, after adjustment for inflation, the gain has amounted to only about 5% over the past twelve months, certainly not sufficient to engender a large burst in capital spending.

The dollar continued its sharp decline against the stronger foreign currencies and in terms of gold. While the Administration lays most of the blame on failure of the United States to come to grips with its energy problems, it seems obvious there is a general mistrust of our ability to succeed in our possibly misguided attempts to manage our economy and to resolutely attack the serious problem of inflation. In an effort to demonstrate recognition of the latter fact, the Federal Reserve Board has raised the discount rate to 7¾% and has signaled a target rate of 8⅜% for Federal Funds, reserves that banks lend to each other. While most bankers endorsed these moves, it is generally agreed that more must be done along other lines if we are to curb inflation. It is particularly disturbing to realize that after three years of relatively strong economic recovery we are still running horrendously high government deficits with no end in sight.

The Congress is wrestling with a bill to provide substantial reductions in taxes for individuals and corporations. While final details are unpredictable at this time, there is enough pressure for

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tax cuts to practically assure passage of some such legislation by the end of this year.

The President's energy program is again in jeopardy as the fragile agreement on natural gas pricing seems ready to fall apart. Even if it holds together, certain Senators have promised to filibuster against it on grounds of protecting consumers against price increases. So long as we insist on pricing energy by legislative fiat in defiance of basic market forces, we will probably succeed only in compounding our energy problems.

MOTOR VEHICLE FACTORY SALES

FIRST HALF 1978—Motor vehicle factory sales from plants in the United States totaled 6,776,330 during the first six months of 1978 compared with 6,690,123 in the same half-year in 1977. The breakdown for the latest semi-annual period is 4,914,488 passenger cars (down 33,198) and 1,861,842 trucks and buses (up 119,405). . . . Factory sales from plants in Canada reached 966,673 from January-June 1978 against 989,410 in the first half of 1977. [Motor Vehicle Manufacturers Association of the United States, Inc.]

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OCCUPATIONAL HEALTH IN THE U.S.

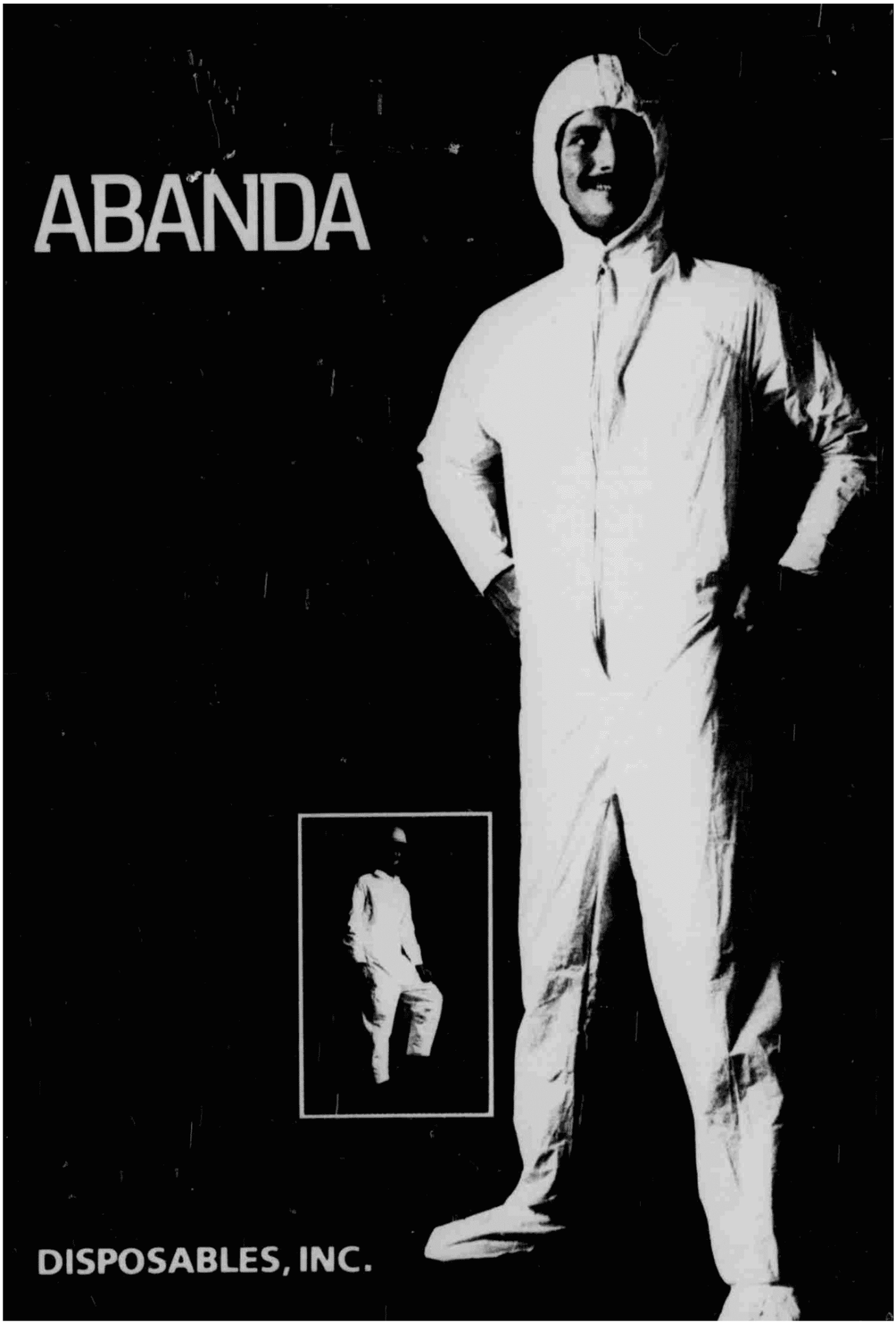
HEW PUBLIC AWARENESS CAMPAIGN

The U.S. Department of Health, Education and Welfare launched its major public awareness program on August 8, 1978, to alert workers previously exposed to asbestos about the possible health risks from that exposure and to motivate individuals who were exposed to get regular medical checkups plus any treatment necessary, to stop smoking and to seek additional information. Kits containing radio and television public service announcements, print-ads, scripts and specially prepared literature for workers and the general public have been mailed to media outlets across the United States, with special attention to 16 high priority locations. The 16 areas selected for special attention were chosen on the basis of past ship-building activity utilizing asbestos, higher-than-average lung cancer rates and, to some degree, high population density. The three publications which are being widely distributed are entitled "Asbestos Exposure—A Desk Reference for Communicators," "Clearing the Air—A Guide to Quitting Smoking" and "Asbestos Exposure—What It Means, What To Do". . . . A second and more targeted public awareness effort is to begin this month, placing articles in military, retirement and union and industrial publications. Information will also be sent to Social Security beneficiaries.

MINERALS POLICY FORUMS

A series of technical forums will be held in September and October to obtain public information and comments in connection with a Cabinet-level review of non-fuel minerals policy, it was announced by C. D. Andrus, Secretary of the U.S. Department of the Interior. Specifically, information will be sought from technically-knowledgeable industry and labor representatives, state and local government officials, environmental and citizen groups and researchers. The topics of the scheduled forums are: Outlook for Minerals Supplies and the U.S. Minerals Industries, Relationship of Environmental Quality, Health and Safety and the Price of Availability of Minerals, Mineral Potential of Federal Lands, Conservation, Substitution and Recycling, and Adequacy of Minerals-Related Research and Development. . . . Asbestos is among the 12 minerals selected for in-depth analysis. However, an analysis will also be provided for all mineral commodities so that problems

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typical of the 12 can be related to other minerals important to the U.S. economy. Subjects which surely will emerge during any discussions on asbestos would be the asbestos-health situation, the non-availability of substitute materials and the fact that the United States relies on asbestos imports for about 85% of its consumption of the fiber.

EMPLOYEE ACCESS TO OSHA FORM 200

The U.S. Occupational Safety and Health Administration has revised the requirements of its recordkeeping regulations by providing access to OSHA Form 200 (the log and summary of occupational injuries and illnesses) to employees, former employees and their representatives. Since the log contains a record of each reported workplace injury and illness, employees will now have the opportunity to become more aware of present and possible hazards in the workplace and will, therefore, be assisted in their efforts under the Occupational Safety and Health Act to protect themselves from those hazards. The revised regulation was effective August 21, 1978. [FR 7/21/78; 29 CFR, Part 1904; pages 31324-29] . . . . In conjunction with this revision, OSHA also issued an interim final rule, effective July 19, 1978, which requires all employers to preserve any employee exposure or medical records which they prepare or maintain or to which they have access. [FR 7/21/78; 29 CFR, Part 1910; pages 31329-31]. . . . The afore-mentioned interim final rule will be superseded when OSHA's proposed ruling is promulgated. The proposed rule will include requirements for the retention of employee exposure and medical records for the duration of employment, plus five years. [FR 7/21/78; 29 CFR, Part 1910; pages 31371-74]

COMPENSATION BILLS

Federal focus on past worker exposure to asbestos has been sharpened with the introduction of the Asbestos-Related Disease Screening Act of 1978 (HR 13461). The Bill addresses the financial needs of exposed workers unable to cover the costs of medical examinations by earmarking $55-million in federal funds over a three-year period. Diagnostic screening would be provided through the U.S. Department of Labor for workers not covered by health insurance, workman's compensation or other programs. The Bill has been referred to the House Committee on Education and Labor [Association of Asbestos Cement Pipe

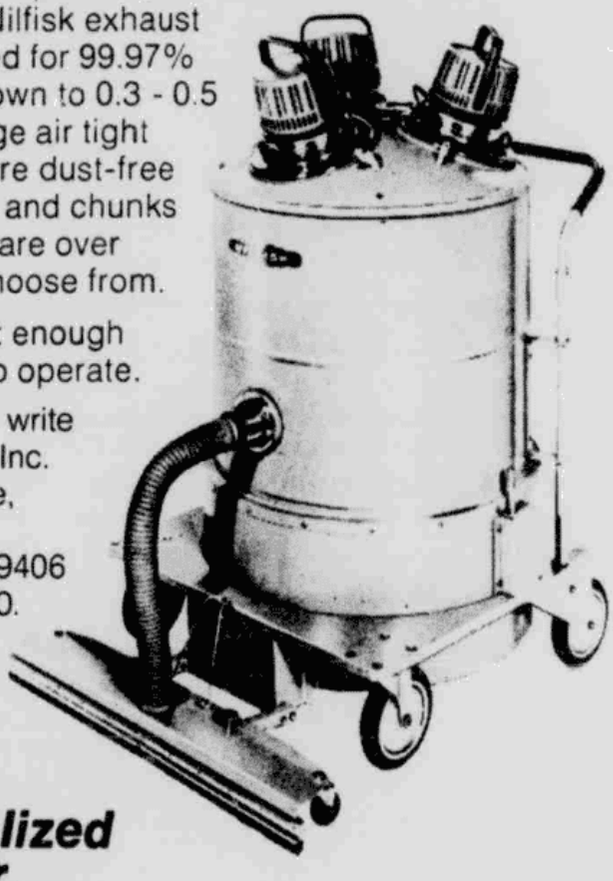
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Producers] . . . . Hearings on the Williams-Javitts National Workers Compensation Standards Act (S 3060) are scheduled September 19, 20 and 22. The Bill would authorize the Secretaries of Labor and HEW to develop specific standards dealing with occupational disease compensation and determination of employer responsibility. Standards would be required to incorporate the most current medical knowledge on diagnosis and causation and may include reasonable rebuttable presumptions. [Asbestos Information Association/North America]

CONFIDENTIALITY RECOMMENDATIONS

The Subcommittee on Trade Secrets and Data Confidentiality, Council on Environmental Quality, has developed initial recommendations for consideration by the Toxic Substances Strategy Committee concerning the treatment to be accorded health, safety and efficacy data. The Subcommittee's preliminary recommendation is for full public disclosure of all safety, health and efficacy data which the federal government has the authority to require private industry to submit. The group believes that a properly designed disclosure system could provide adequate protection of manufacturers' economic interests and stimulate innovation in the private sector, as well as allow full public access to all health, safety and efficacy data. Comments, by October 15, 1978, are urged from all sectors of the public. [FR 9/1/78; pages 39167-9].

OSHA REVIEWS ASBESTOS REPORT

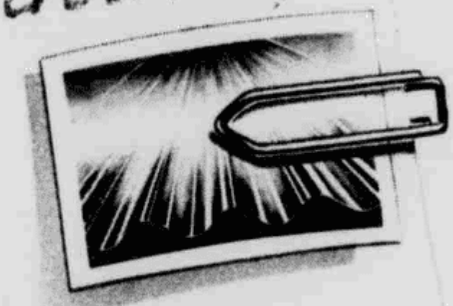
After many revisions, top-level people at OSHA are finally reviewing a consolidated report on studies of the asbestos manufacturing and construction industries, contracted to CONSAD Research Corporation (manufacturing) and to Research Triangle Institute (construction). The consolidated report, prepared by RTI, deals with OSHA's proposal to revise the manufacturing standard from a permissible exposure level to asbestos dust from 2 fibers per cubic centimeter to 0.5 f/cc, and to consider the recommendation of the National Institute for Occupational Safety and Health of a 0.1 f/cc limitation. The report also discusses economic impact considerations and a standard to apply to the use of asbestos-containing materials in the construction industry. It is highly unlikely that joint public hearings on the proposed revision to the manufacturing standard and the standard for the construction industry will be scheduled before the end of the year. [AIA/NA]

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SMALL BUSINESS AMENDMENT

The final rule has been promulgated which implements the authority given under an amendment to the Small Business Act and the Small Business Investment Act which authorizes the Small Business Administration to provide guarantees of financing to acquire facilities for the control of air, noise or water pollution or contamination. The file rule has been effective since July 31, 1978. [FR 7/31/78; 13 CFR, Part 111; pages 33231-34) . . . . Early last month the U.S. Senate accepted an amendment (H 11445) to the authorization bill for SBA which would exempt businesses from coverage under the OSHAct. Under the amendment, businesses with ten or fewer full-time employees would be exempt if they are part of an industry with an injury/illness rate of less than 7%. Latest reports indicate the House has agreed to a joint conference with the Senate on the amendment bill.

OSHA GENERIC HEARINGS OVER

Hearings on OSHA's proposed Generic Cancer Policy (see July 1978 ASBESTOS, pages 16 & 18) ran for 44 days, ending July 25, 1978. Final, written arguments must be submitted by October 10. The Policy is OSHA's first comprehensive proposal for regulating cancer-causing substances by establishing a procedure to identify, classify and regulate potential carcinogens in the workplace. Category I would classify those substances determined to be confirmed occupational carcinogens as evidenced by specific studies, tests or scientific evidence. Following such a categorization, a standard would be set to regulate permissible exposure limits for the substance. Amosite, Anthophyllite, Chrysotile and Crocidolite asbestos are among the 300 + substances which have been included by NIOSH in its document titled "Preliminary Suggested List of Substances Under Category I."

HEW HEALTH RESEARCH PLAN

Two months ago HEW Secretary J. A. Califano, Jr., issued a memorandum to several professional societies and health organizations, requesting their views, perspectives and concerns about health research and to advise he had begun to develop a multi-year strategy to guide the allocation of limited government health research dollars. As part of the program, a National Conference on Health Research Principles has been scheduled at the National Institutes of Health, Bethesda, Maryland, October 3-4,

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1978. A broad community of professionals has been invited to provide suggestions and to participate as public witnesses. The Conference will include public testimony, working panel sessions and plenary sessions.

AIA/NA PLANT PHYSICIANS CONFERENCE

In its continuing program to provide information on the asbestos-health relationship and assistance to industry in related problem areas, the Asbestos Information Association/North America will sponsor a Conference for Industry Medical Directors and Plant Physicians. The event will be held November 9-10, 1978, on the campus of Tulane University, New Orleans, Louisiana. Items on the agenda will include a discussion of asbestos-related health effects, guidelines for medical examinations, diagnostic techniques with emphasis on chest roetgenography and pulmonary function, physician responsibilities concerning reporting of abnormal findings, and aspects of compensation as it concerns the doctor.

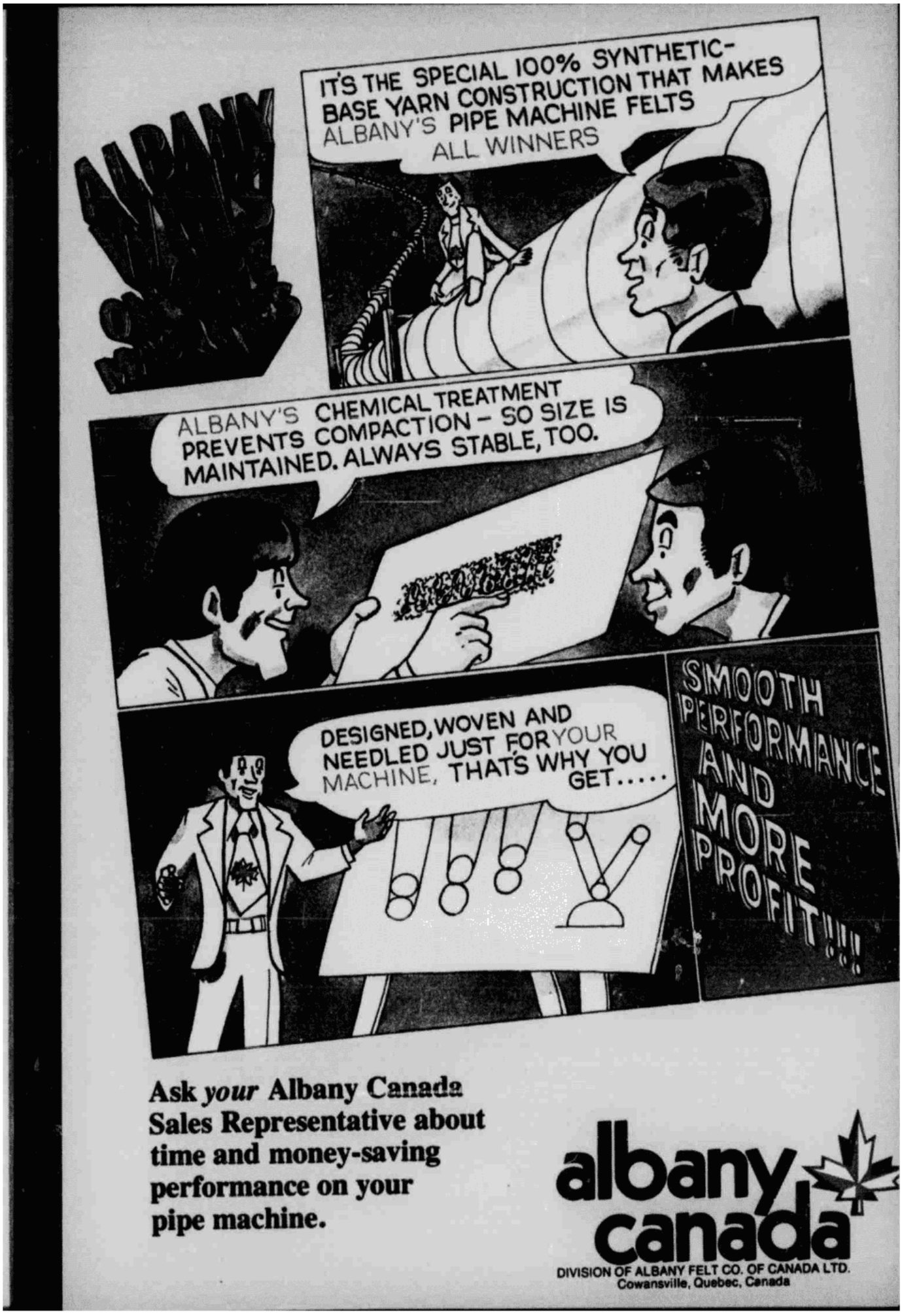
SEARCH WARRANT NEEDED

By a majority vote of 5-3, the U.S. Supreme Court ruled that an employer can bar from a work site a federal safety and health inspector who does not have a search warrant. The decision is based on the premise that inspection provisions of the OSHAct violate the Fourth Amendment which prohibits warrantless searches. The ruling is not expected to have any great impact on industry since all that OSHA has to do to secure a warrant is to "believe" that work-site conditions exist which do not comply with OSHAct.

PRODUCT SAFETY MEETING

The Product Safety Advisory Council of the U.S. Consumer Product Safety Commission has scheduled a meeting on September 25, 1978, in Washington, D. C. Among the several items on the agenda are briefings on the Commission's implementation of the interim safety standard on cellulose insulation and on the policy of classifying, evaluating and regulating carcinogens in consumer products. Those who wish to make oral or written presentations should notify CPSC by September 18, 1978. [FR 9/5/78; page 39410]

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IT'S THE SPECIAL 100% SYNTHETIC-BASE YARN CONSTRUCTION THAT MAKES ALBANY'S PIPE MACHINE FELTS ALL WINNERS
ALBANY'S CHEMICAL TREATMENT PREVENTS COMPACTION – SO SIZE IS MAINTAINED. ALWAYS STABLE, TOO.
DESIGNED, WOVEN AND NEEDLED JUST FOR YOUR MACHINE, THAT'S WHY YOU GET.....
SMOOTH PERFORMANCE AND MORE PROFIT!!!
Ask your Albany Canada Sales Representative about time and money-saving performance on your pipe machine.
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Epidemiological Studies on Asbestos-Exposed Workers in South Africa—By B. Goldstein, et al., Johannesburg (7 pages).

Immunological Studies of Patients with Asbestosis: I. Studies of Cell-Mediated Immunity—By E. Kagan, et al., Johannesburg; Clin. exp. Immunol. 1977 (7 pages).

Immunological Studies of Patients with Asbestosis: II. Studies of Circulating Lymphoid Cell Numbers and Humoral Immunity—By E. Kagan, et al., Johannesburg; Clin. exp. Immunol. 1977 (8 pages).

The Immunology of Asbestosis—By E. Kagan, et al., Johannesburg; Inhaled Particles IV 1977 (5 pages).

Immune Adherence Reactivity of Rat Alveolar Macrophages Following Inhalation of Crocidolite Asbestos—By K. Miller & E. Kagan, Johannesburg; Clin. exp. Immunol. 1977 (7 pages).

In Vitro Phagocytosis of Quartz and Asbestos by Rat Alveolar Macrophages—By K. Miller, et al., Johannesburg; Proceedings, Volume 7, Electron Microscopy Society of Southern Africa (2 pages).

Macrophage-Lymphocyte Interaction After In Vivo Exposure To Crocidolite Asbestos—By K. Miller, Johannesburg; Proceedings, Volume 7, Electron Microscopy Society of Southern Africa (2 pages).

Use of the Ratio Method in the Identification of Asbestos Fibres Recovered from Human Lungs—By M. I. Skikne, et al., Johannesburg; Proceedings, Volume 7, Electron Microscopy Society of Southern Africa (2 pages).

Pneumoconiosis in Non-Mining Industries on the Witwatersrand—By I. Webster, et al., Johannesburg; SA Medical Journal, 1977 (4 pages).

National Research Institute for Occupational Diseases of the South African Medical Research Council—Fifth Annual Report (1975 and 1976) containing following articles on Asbestosis: To determine the Relationship Between Cumulative Dust Exposures and the Development of Asbestosis and Pleural Changes in Asbestos Miners, A Follow-Up of Persons Exposed to Asbestos Dust, To Assess the Character of Asbestos Dust in the Mining and Non-Mining Asbestos Industries and in Tissues, Pathogenesis of Asbestosis, Pleural Changes and Malignant Neoplasia, To Determine Whether Phagocytosis of Certain Dusts by Alveolar Macrophages Confers Antigenic Properties on the Cell Membrane System, To Study the Biological Effects of Different Asbestos and Country Rock, A Study of the Metabolic Pathways in Malignant Disease Associated with Asbestos Exposure, To Establish a Cell Line of Asbestos-Related Tumours, To Determine the Value of Immunotherapy Either Alone or in Combination with Chemotherapy in Malignant Mesotheliomas (13 pages).

National Research Institute for Occupational Diseases of the South African Medical Research Council—Fourth Annual Report (1974) containing articles on Asbestosis pertaining to Epidemiology, Animal Experiments, Pathogenesis, Treatment, Mineral Fibers and Particles in Biological Specimens and the Atmosphere, Use of Membrane Filter Papers (9 pages).

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ASBESTOS

HUXLEY DEVELOPMENT CORPORATION

Anthophyllite
Chrysotile
Crocidolite
Amosite

TIME & LIFE BUILDING
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TEL: 212 581-0660
CABLE: HUXLEYCORP
TELEX: 420195

OVER A QUARTER CENTURY OF EXPERIENCE

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PRODUCTION—IMPORTS—EXPORTS

WOODSREEF PRODUCTION

Chrysotile Corporation of Australia Pty. Ltd. produced 68,009 metric tons of asbestos during the *Year Ended June 1978* at its Woodsreef Asbestos Mine, Barraba, New South Wales, 2,097.5 tons more than in the prior year. Total output since the mining/milling complex began operating in *February 1972 through June 1978* amounted to 313,176.5 tons.

AUSTRALIAN IMPORTS & EXPORTS

For the *Year Ended June 1978*, Australia *imported* 55,265 metric tons of asbestos valued at A$25,978,419, 21.4% less in quantity and 11.6% less in value than the same period a year ago. The breakdown by variety of asbestos for the latest year is: Chrysotile, 24,929 tons (down 35.9%), $12,091,393; Amosite, 16,841 tons (up 8.2%), $7,951,628; Other, 13,495 tons (down 15.2%), $5,935,398. Total Australian imports of asbestos for the three prior years were 70,342 tons valued at $29,414,733 in 1977, 56,246 tons valued at $17,852,927 in 1976 and 50,879 tons valued at $11,195,399 in 1975. . . . *Exports* of all types of asbestos for the *Year Ended June 1978* totaled 32,145 tons valued at $20,004,922 compared with 28,011 tons valued at $10,384,430 in 1977, 38,139 tons valued at $11,793,186 in 1976 and 15,940 tons valued at $3,693,186 in 1975. [Australian Bureau of Statistics]

CANADIAN FIBER SHIPMENTS

Primary Canadian producers' shipments of asbestos (including tonnage for own use) amounted to 139,883 short tons in *June 1978* compared with 143,251 tons for the sixth month of 1977. The cumulative total for *January-June 1978* was 702,014 tons: 587,245 tons from Quebec plants and 114,769 tons from plants in Newfoundland, Ontario, British Columbia and the Yukon. The total for the first six months of 1977 was 806,106 tons: 647,698 tons from plants in Quebec and 158,408 tons from plants in the other four Provinces. . . . Beginning January 1978, these figures include concentrate shipped from Asbestos Hill. [Statistics Canada]

CANADA'S FLOOR TILE OUTPUT

Production of vinyl-asbestos floor tile by Canadian manufacturers for the *First Half of 1978* reached 21,904 metric tons (4.5-million square meters) compared with 22,071 tons (4.6-million sm) in the first six months of 1977. *Shipments* totaled 19,418 tons (4-million sm) in the latest half-year against 21,774 tons (revised; 4.5-million sm) for the same 1977 period. [Statistics Canada]

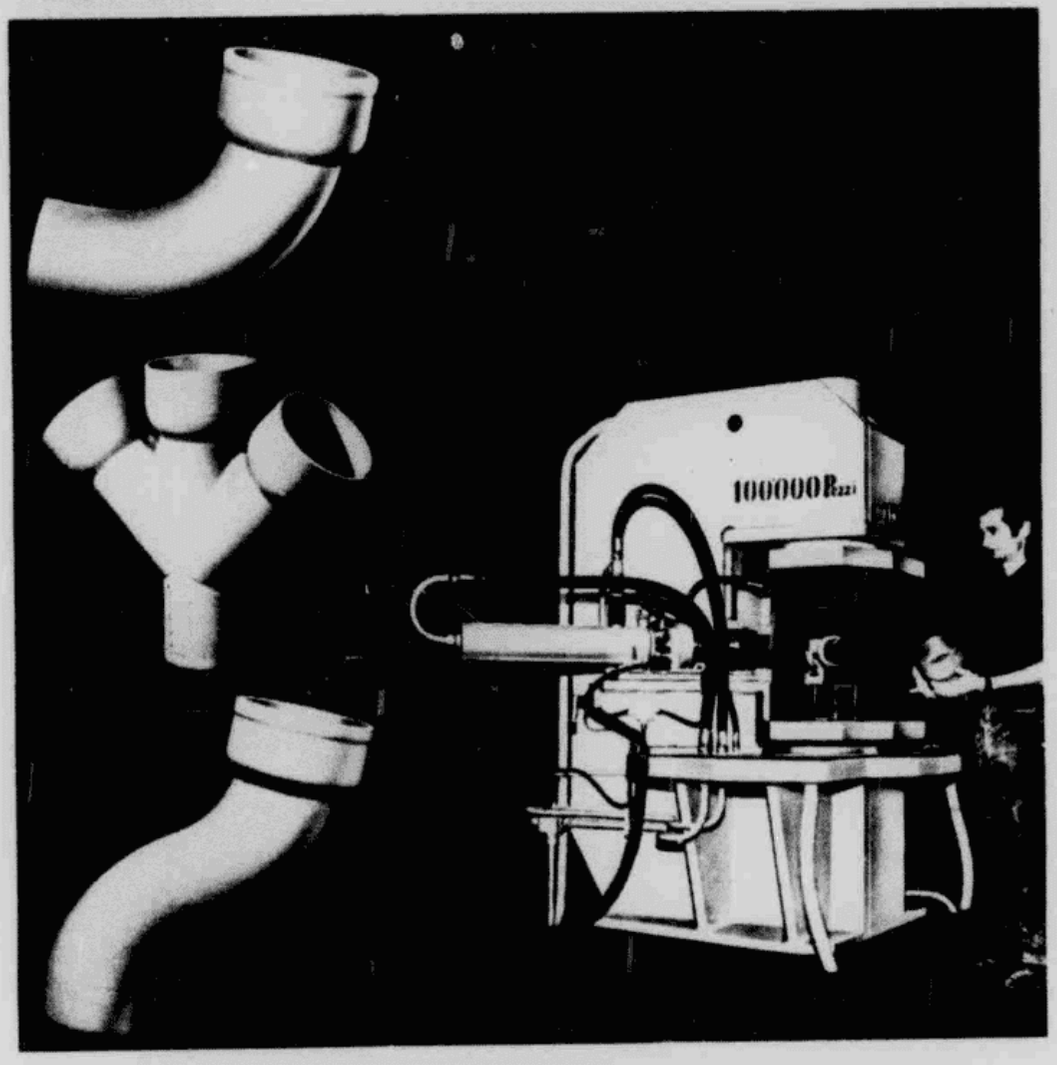
FELT SHIPMENTS FROM CANADA

Canadian shipments of asbestos, cotton and synthetic dryer felts and fabrics for the *First Six Months of 1978* totaled 2,658,353 square feet (246,969 square meters) valued at C$8,628,397. Shipments of woven and/or needled wet felts and jackets (including felts used in asbestos-cement pipe or sheet-forming operations) reached 1,106,562 pounds (501,928 kilograms) valued at $18,764,090. [Statistics Canada]

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Paderno Dugnano (Milan) — Italy —
Telex: 36113



"P 8" Plant — for the production of asbestos-cement fittings for pipes, gutters and similar articles

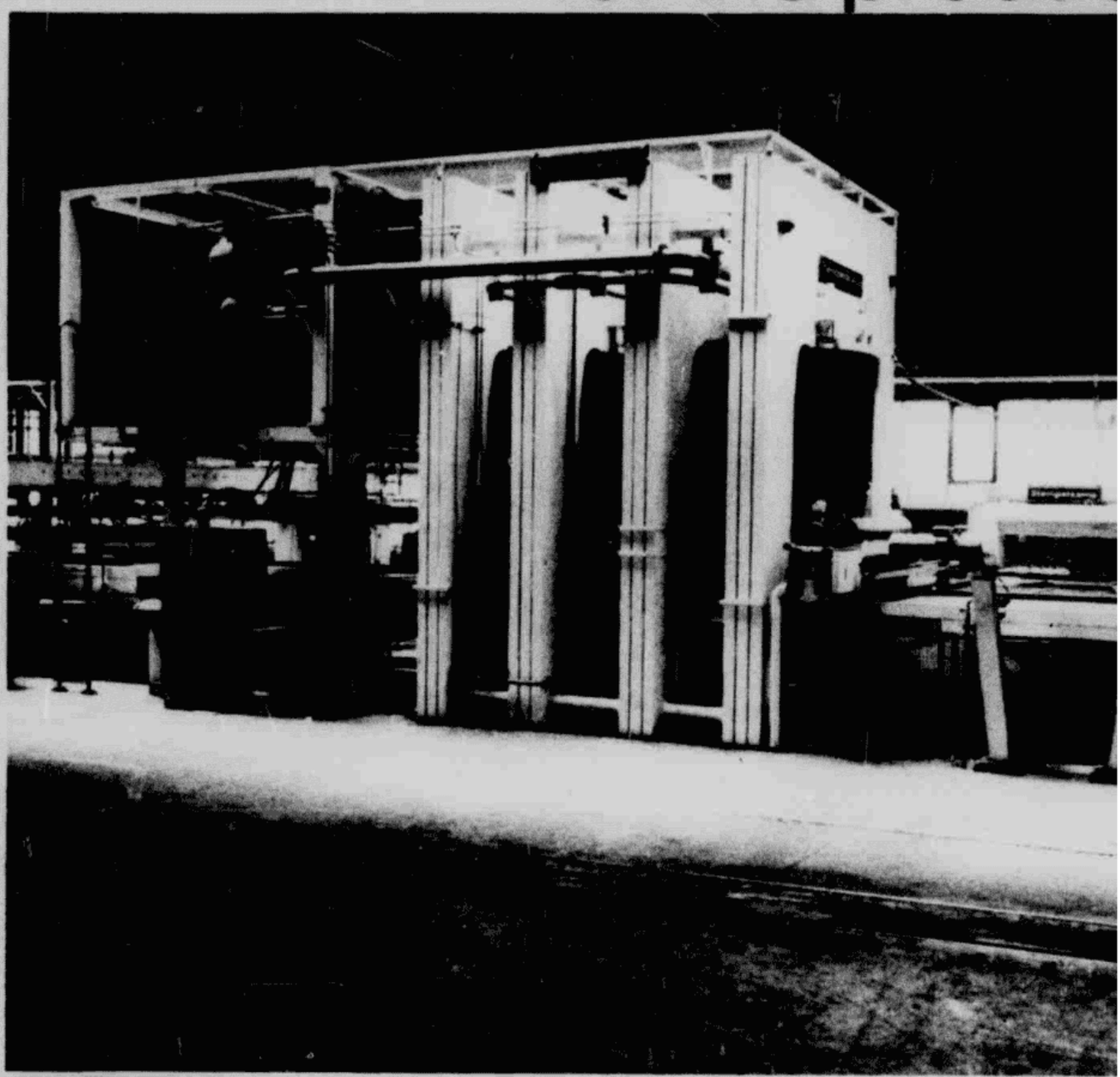
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Automatic INJECTION Plants

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c production plants for the of:

flat and corrugated asbestos-cement sheets

asbestos-cement pipes

ic press lines ction of:



highly compressed asbestos-cement sheets

Fully automatic press lines for: laminating of flat asbestos-cement sheets

Fully automatic press lines for the production of building elements

hydraulic presses for asbestos-cement-sheets

hydraulic stamping presses for edge trimming and cutting-to-size

hydraulic pipe testing presses

hydraulic pipe bursting presses

12.000 tons short-cycle press and 315 to stamping press for the production of asbestos-cement sheets
size of finished sheets: 1600 x 3600 mm
cycle time: 12 seconds

amp

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IMPORTS INTO THE UNITED STATES

From: U.S. Bureau of the Census

MAY 1978

UNMANUFACTURED ASBESTOS:

Amosite, South Africa	s.tons	306	$ 156,238
Crocidolite (Blue), South Africa	s.tons	742	460,327
Chrysotile Crudes, South Africa	s.tons	350	218,614
Chrysotile Spinning Fibers, Canada	s.tons	753	509,369
Chrysotile, Other, Canada	s.tons	46,214	10,686,966
Other Crudes & Fibers, Canada	s.tons	1,697	354,500
South Africa	s.tons	20	13,382
		50,082	$12,399,396

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	888,905	$ 1,482,150
A-C pipes, tubes & fittings	Lb	2,348,491	275,559
Other asbestos-cement articles	Lb	1,559,952	424,515
Other asbestos articles		..	917,656
			$ 3,099,880

JANUARY-MAY 1978

UNMANUFACTURED ASBESTOS:

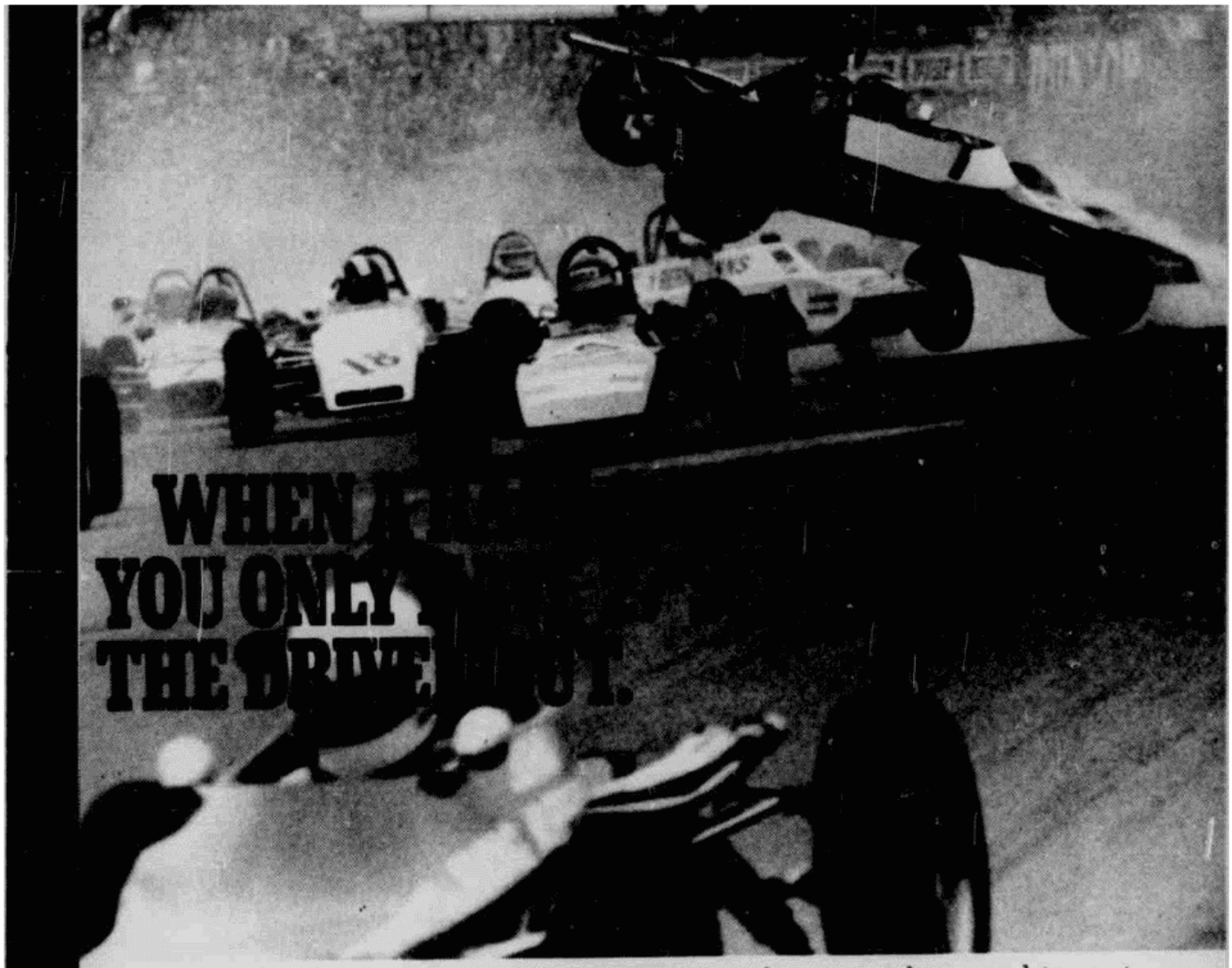
Amosite, South Africa	s.tons	749	$ 385,569
Crocidolite (Blue), South Africa	s.tons	5,826	3,617,396
Chrysotile Crudes, Canada	s.tons	20	13,842
South Africa	s.tons	720	458,178
Chrysotile Spinning Fibers, Canada	s.tons	3,196	2,550,753
Chrysotile, Other, Canada	s.tons	220,573	52,712,600
Mexico	s.tons	75	5,598
South Africa	s.tons	219	144,165
Yemen	s.tons	48	28,578
Other Crudes & Fibers, Canada	s.tons	4,938	1,116,391
India	s.tons	19	4,139
South Africa	s.tons	925	611,632
USSR	s.tons	1,113	324,447
		238,421	$61,973,288

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	4,604,584	$ 7,419,325
A-C pipes, tubes & fittings	Lb	8,618,903	1,007,354
Other asbestos-cement articles	Lb	8,210,694	1,900,569
Other asbestos articles		..	3,357,378
			$13,684,626

January-May 1977: U.S. imports of unmanufactured asbestos totaled 244,590 short tons, valued at $61,344,895; imports of manufactured asbestos products were valued at $12,561,775.

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And only one material can protect the man who gets him out. At every race track there is a fireman wearing special protective clothing at all times.

Obviously this suit is made of aluminized asbestos because only asbestos can protect the wearer in temperatures that make magnesium wheels go off like flash guns and causes chassis to melt. As a matter of fact, asbestos is the only woven material that can make this claim and without it, race drivers, firemen and others who work in these environments would be defenseless.

Asbestos. We couldn't live the way we do without it.

ASBESTOS

When life depends on it, you use asbestos.

Asbestos Corporation Limited,
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Represented by:
Meyers Chemicals Inc., 4245 Union Rd., Buffalo, N.Y. 14225, **U.S.A.**
C. L. Zimmerman Co.,
N 203 Cincinnati Union Terminal, Cincinnati, Ohio 45203, **U.S.A.**
Other representatives world-wide.

EXPORTS FROM THE UNITED STATES

From: U.S. Bureau of the Census

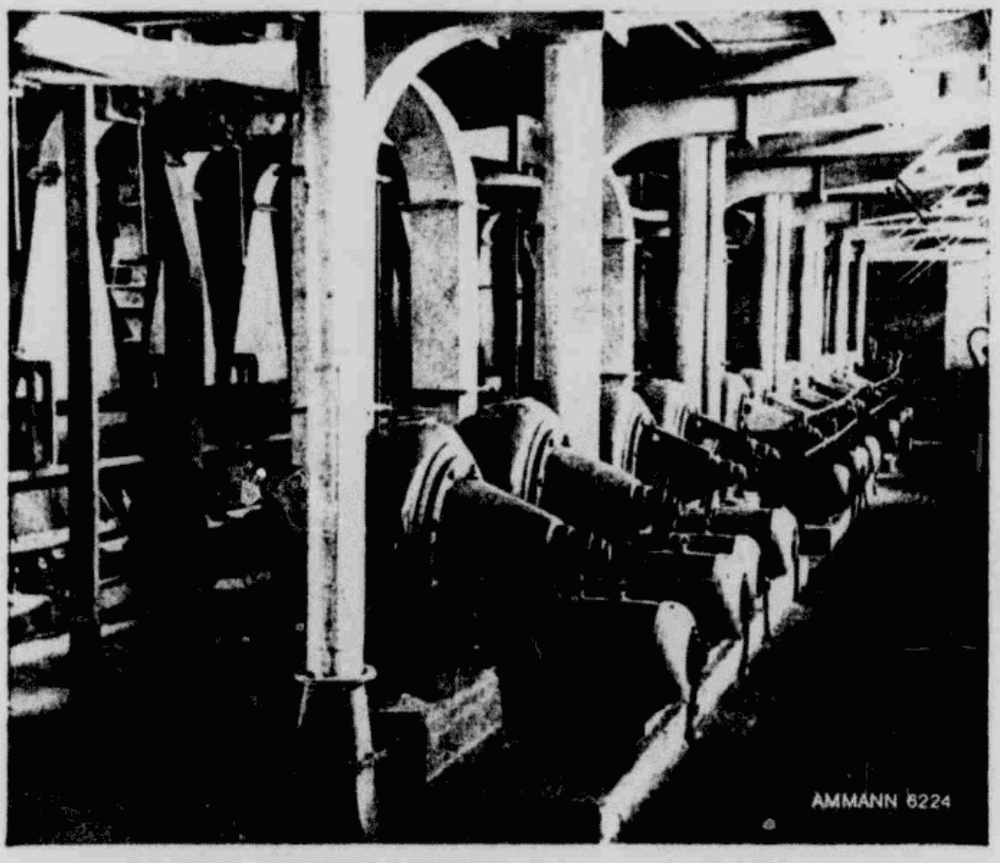
			MAY 1978	
UNMANUFACTURED ASBESTOS:				
Asbestos Crudes, Fibers & Stucco	s.tons		2,783	$ 806,993
Asbestos Sand & Refuse	s.tons		3,307	548,024
			6,090	$ 1,355,017
MANUFACTURED ASBESTOS PRODUCTS:				
Asbestos yarn, cloth, tape, etc.	Lb		1,041,149	$ 748,448
Asbestos-Cement shingles & clapboard	Lb		1,732,595	375,691
Other asbestos-cement articles	Lb		2,042,564	1,060,005
Asbestos gaskets	Lb		97,316	338,981
Asbestos packing & seals	Lb		444,821	872,460
Asbestos insulation			..	562,227
Brake linings & disc brake pads			..	4,790,675
Clutch facings & linings			..	975,434
Other asbestos articles			..	2,818,919
				$12,542,840

			JANUARY-MAY 1978	
UNMANUFACTURED ASBESTOS:				
Asbestos Crudes, Fibers & Stucco	s.tons		10,458	$ 3,515,632
Asbestos Sand & Refuse	s.tons		8,687	1,761,452
			19,145	$ 5,277,084
MANUFACTURED ASBESTOS PRODUCTS:				
Asbestos yarn, cloth, tape, etc.	Lb		3,692,838	$ 3,139,364
Asbestos-Cement shingles & clapboard	Lb		12,087,863	2,593,538
Other asbestos-cement articles	Lb		7,968,898	3,799,456
Asbestos gaskets	Lb		2,603,107	1,602,317
Asbestos packing & seals	Lb		3,019,073	4,615,828
Asbestos insulation			..	2,443,391
Brake linings & disc brake pads			..	17,007,287
Clutch facings & linings			..	5,228,148
Other asbestos articles			..	9,202,928
				$49,632,257

January-May 1977: U.S. exports of unmanufactured asbestos reached 15,610 short tons, valued at $4,825,328; exports of manufactured asbestos products were valued at $33,532,632.

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AMMANN Asbestos Mill



The ONLY DISINTEGRATOR treating the asbestos fibres without breaking them. Disintegrator used so to say by the most important Asbestos Mines of the whole world.

The above illustration shows a large plant comprising several AMMANN disintegrators in an asbestos mine.

U. AMMANN Ltd.

Engineers **CH 4900 Langenthal** **Switzerland**

Cables: Ammannag Langenthal — Telex: Nr. 68446

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CANADIANS ARE HOSTED BY THE SOVIETS

At the invitation of the Soviet Government and the USSR Committee for Science and Technology, a delegation of the Canadian asbestos mining industry, accompanied by representatives of the Federal Departments of Industry, Trade and Commerce and of Energy, Mines and Resources made an official visit to the Soviet Union in May. The 10-day visit consisted mainly of a tour of the asbestos mining facilities at the two largest complexes in the USSR, located in the Republics of Russia and Kazakhstan.

URALASBEST

The UralAsbest industrial complex is the largest of its kind in the world. Its three adjacent asbestos mines annually produce 1,750,000 tons of Grades 1 through 6 fiber, in 20 types and mixes. It is believed the facility also produces 350,000 tons per year of Grade 7 fiber which is not included in official Soviet production figures. In the course of the visit to the Siberian mining complex, the Canadian delegation witnessed a primary blasting in the largest mine which measures about 190 meters deep, 2.8 kilometers long and 1.2 kilometers wide. The delegates also visited the processing plants which operate day and night, 365 days per year, and employ a total of 20,000 workers in the mining, maintenance and auxiliary operations. The UralAsbest complex uses a considerable amount of equipment including 130 locomotives and 800 one-hundred-ton wagons which cover a total of 500 kilometers of railway to transport ore to the mills and waste material to the tailings. Included in the tour was a visit to VN11 Procktasbest, an important asbestos extraction and processing research center.

KOUSTANAI

The team also visited the Koustanai installations in the Republic of Kazakhstan, about 4,000 kilometers (2,500 miles) southeast of Moscow. This complex has been in operation since 1965. The mine and mill employ 2,500 people and current annual production is 700,000 tons, although this is to be increased to 1,150,000 tons by 1985. Like the most recent processing plant at UralAsbest, the Koustanai mill has characteristics which are similar to the installations at Asbestos, Quebec, from which the Soviets drew both technology and design.

DEMAND FOR ASBESTOS CEMENT

There is currently a substantial increase in industrial and residential construction in the USSR and over the last few years some $200-million has been invested in the construction of asbestos cement plants to manufacture products for use in new buildings. Between 800,000 and one-million new buildings are completed each year. The Soviet Ministry for Construction requires that asbestos-cement materials be used in all new buildings.

EDITOR'S NOTE: THE ABOVE MATERIAL WAS EXCERPTED FROM AN ARTICLE WHICH APPEARED IN THE MAY-JUNE 1978 ISSUE OF "QAMA BULLETIN," PUBLISHED BIMONTHLY BY THE QUEBEC ASBESTOS MINING ASSOCIATION.

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ASBESTOS

Lake Asbestos is the third largest producer of asbestos in Canada, with sales representatives on every continent of the world. Lake's two mines produce a full range of grades, from the long 3 group for spinning and weaving, to the short 7's for paper, brake lining and floor tile. Western hemisphere representatives below can provide prompt service and local warehousing as required.

SALES REPRESENTATIVES

Arkansas, New Mexico, Oklahoma, Texas
Federated Metals Corporation
Houston, Texas

California: A.J. Lynch & Co.
Los Angeles, San Francisco

Illinois, Indiana, Wisconsin
Jensen-Souders Associates, Inc.
Chicago

Michigan: Matteson-Ridolfi, Inc., Detroit

New England, New York
Northern New Jersey
D.H. Litter Company, Inc.
New York, N.Y., Ballardvale, Mass.

N. Carolina, S. Carolina, Georgia
Tennessee, Alabama, Mississippi
Deeks & Co., Inc.
Stone Mountain, Ga., High Point, N.C.

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Lawlor Distributors. Inc., Cleveland

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Washington, Oregon
J.F. Shelton Co., Portland

Argentina
Tradimex S.A.I.Y.C., Buenos Aires

Brazil: Tennant Imp. E Exp. Ltda.
Sao Paulo, Rio de Janeiro

Bolivia: Tennants S.A., La Paz

Canada (Ontario, Quebec)
Federated Genco Ltd.
Montreal and Toronto

Colombia
Holanda Colombia, S.A., Bogota

Dominican Republic
A. Amanzio, Mexico City

Mexico
Industrial Minera Mexico, S.A.
Mexico City

Peru: Tennant (Peru) S.A., Lima

Puerto Rico
Juan Vater & Co., Inc., Santurce

Venezuela
Connell Brothers Co., Ltd., Caracas

General agent for Argentina, Brazil, Bolivia, Peru and Venezuela is Amalgamet Canada Ltd., Toronto. We're also represented in Europe, Asia and Africa. For more information contact: Lake Asbestos of Quebec, Limited, P.O. Box 608, Black Lake, Quebec, (418) 423-4226, Cable: LAQBESTOS BLACK LAKE. Telex: 05-834559.

LAKE ASBESTOS

A subsidiary of **ASARCO**

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ANNUAL REPORTS—1978

JAMES HARDIE ASBESTOS LTD.

In the year ended March 31, 1978, Group sales for James Hardie Asbestos Ltd. increased 23.6% to $205,640,000 and Group operating profit, before extraordinary items, rose 3.7% to $16,983,000. During the annual period under review, the asbestos cement activities acquired from Wunderlich Ltd. were fully integrated into James Hardie & Coy. Pty. Ltd. At the end of 1977, an offer was made to acquire all the shares in Gay-Dor Plastics Ltd. The acquisition was completed by the issue of Hardie Asbestos shares and cash. In New Zealand, Hardie & Coy. acquired the share capital of Lee & Wilson Ltd., a firm engaged in the business of home renovating. Hardie-Ferodo Pty. Ltd. acquired the 49% interest in S.B. Industries (Sdn) Bhd., Malaysia, from Steel Bros. & Co. Ltd., England, a manufacturer of brake linings and pads from imported materials.

James Hardie & Coy. Pty. Ltd., Australia—A drop of 4.5% was noted in the volume of building products sold in a market which had a downturn of 7.1% in the number of housing completions. An improvement in this situation is forecast for early 1979. There was some growth in the transportable, factory-built housing industry and in nonresidential building activity and the renovation market by both professional builders and handymen. . . . Concerning the pipe market, the aggregate result has been equal to that of the previous year. Reduced loan funds and the downturn in sub-divisional activity in South Australia caused a drastic reduction in demand for asbestos-cement pipe by the Engineering and Water Supply Department and this condition is expected to continue for another two years. The pipe business in water supply, drainage, sewerage and telecommunications is heavily dependent upon the policy decisions of governments. Expenditures in this area have been greatly constrained in recent years and the future is not predictable. In Tasmania, a-c pipes were installed for the Devonport-Latrobe project to supply the needs of the municipal areas from Southton to Port Sorell. In Western Australia, a-c town water, sewerage and electrical conduit systems were supplied for Agnew Nickel Mining. In Pilbara, Hardie a-c pipes were used in the last five kilometers of the Yule River-Port Hedland project for Mt. Newman Mining. In the past 25 years, trunk mains involving some 150 kilometers of a-c pipes have been supplied to the Yule and Turner Rivers projects. Further south, in Albany, the last pipes for the Albany-Mt. Barker project will shortly be delivered and thereafter will follow the extension of Kendenup. Hardie is capable of supplying complete pipeline systems including fittings and valves.

Hardie-Ferodo Pty. Ltd., Australia—During a difficult period for the automotive industry, Hardie-Ferodo increased its profits over the previous year. The railway brake-block business in Australia has shown some growth in demand, particularly from State railways and mining companies but also from exports to the United States and Chile and to a lesser degree to other countries.

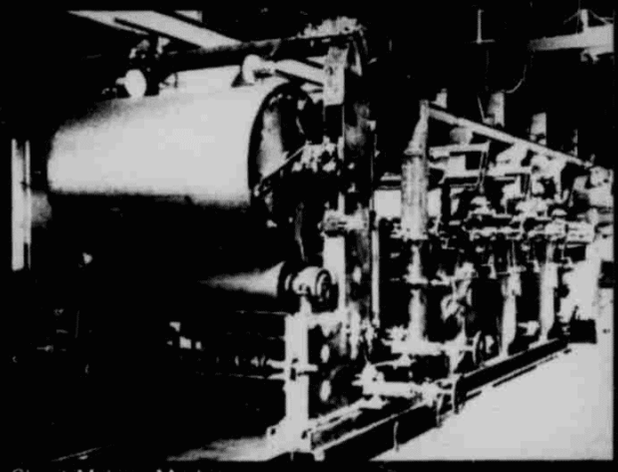
James Hardie & Coy. Pty. Ltd., New Zealand—Market conditions were difficult for building products and pipes, although activity in the export field greatly contributed to improved results for the year. The basis for future

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Complete Plants for making ASBESTOS CEMENT PRESSURE PIPES, 4-and 5 Meter, Diameters up to 1500 mm, Maturing Kilns, Automatic Lathes and Presses

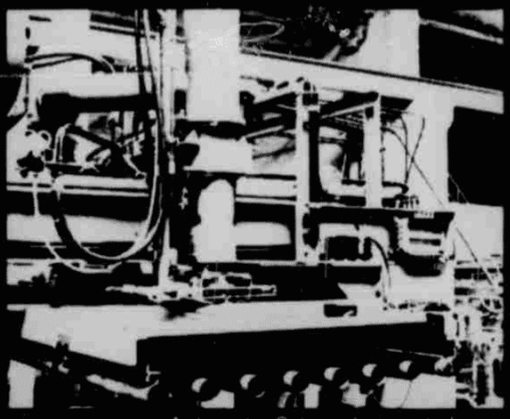
ASBESTOS CEMENT SHEETS, Automatic Corrugating, Colouring Plants for SHEETS

INTERASBEST

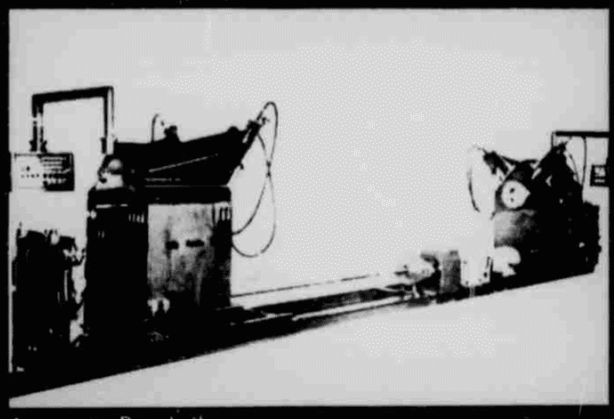


Sheet Making Machine

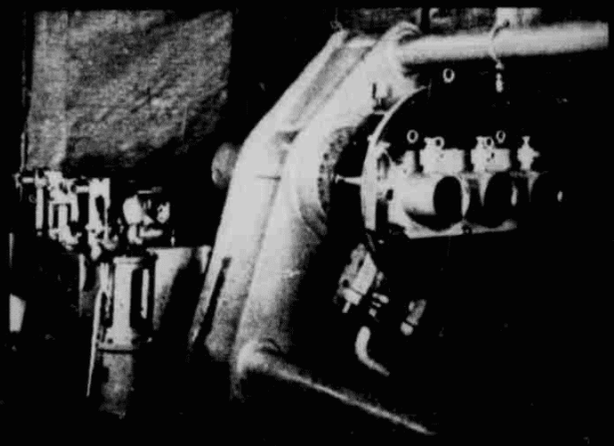
INTERASBEST



Automatic Corrugating unit shown without it's Plastic rug



Automatic Pipe Lathe



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improvement lies in economic recovery within New Zealand itself. New and imaginative housing designs are providing unique applications of asbestos cement in residential construction. Part of the Terrace Tunnel project in Wellington included over 5,000 coated Hardiflex sheets for the ceiling and wall linings.

P. T. James Hardie Indonesia & P. T. Harflex Asbes Semen, Indonesia—Results from the new plant at Tanggerang are fulfilling the expectations of the Group when it undertook its major capital expansion program in Indonesia. Volume of sales of building products has increased substantially in a fairly quiet market and Harflex asbestos-cement sheets are being successfully marketed throughout the country. Efforts are now being directed to the prefabricated, low-cost housing market and to other opportunities for a-c products. . . . This year has been the first for pipe sales. As reported a year ago, Hardie secured part of the Forty-Two Cities water supply scheme. The balance was secured during the latest year and, in addition, further public water supply contracts have been received.

United Asbestos Cement Bhd., India—This Hardie company had another successful year in sales of building products and pipes and in profits. The new asbestos-cement pipe machine is now under construction and is scheduled to begin production in early 1979.

UNITED ASBESTOS INC.

United Asbestos Inc. has reported revenues for the fiscal year ended March 31, 1978, of $20.7-million compared with $14.6-million the prior year. Net income reached $7.1-million or $1.01 per share against $6.6-million or 95¢ per share. The share of the net revenue which accrued to Lake Asbestos of Quebec Ltd. was $15.1-million in 1978 vs. $13.9-million in 1977.

Until mining operations are resumed at Midlothian, Ontario, all costs subsequent to March 2, 1977, have been charged against income as "Carrying Costs, Midlothian Property" except for interest on secured debt which is charged separately to income. For the year ended March 31, 1978, carrying costs were $1.9-million and interest on secured debt was $3.9-million.

1978 SEMI-ANNUAL REPORTS

ADVOCATE MINES LTD.—A loss was incurred by Advocate Mines in the first six months of 1978 of $2.5-million or 40.1¢ per share after providing for income taxes. This compares with net earnings of $1.1-million or 18.6¢ per share in the first half of 1977. First-half 1978 losses are attributable to the strike by Advocate's hourly paid workers which extended from February 13 to May 20 and to the significant pit wall failure in the North Pit which was encountered in late 1977. In May the company reached agreement with its hourly paid workers on a new labor contract which expires December 31, 1979. Advocate shipped 12,512 metric tons of asbestos fiber from January to June 1978 compared with 24,798 tons during the comparable period a year earlier.

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CASSIAR ASBESTOS CORPORATION LTD.—The unaudited net income for Cassiar Asbestos for the six-month period ending June 30, 1978, was $8.3-million or $1.51 per share. This compares with $12.7-million or $2.31 per share for the same period in 1977. The decrease was due mainly to a reduction in sales, i.e., 72,594 tons of asbestos valued at $44.6-million were sold in the first half of 1978 vs. 123,592 tons valued at $61.3-million for the comparable period a year ago. Demand for textile and asbestos cement grade fibers remains soft. With the cessation of production at the Clinton Creek Mine in mid-August, it is expected that the high asbestos fiber inventory which prevailed at mid-year will be reduced to a normal level by year-end.

JOHNS-MANVILLE CORPORATION—Record sales and earnings in both its second quarter and first half of 1978 were reported by Johns-Manville. For the first six months, sales were $773.2-million, a 13% gain, and earnings were $59.9-million or $2.78 per share, up 20%. J-M management noted that all business segments of the company, *excluding asbestos fiber*, had significantly increased income from operations compared with the same periods in 1977. Of particular note is the roofing products business segment which experienced a strong second quarter. For the first half of 1978, revenue from the asbestos fiber category dropped 5% to $77.2-million and income from operations decreased 25% to $23.9-million.

ASBESTOS STOCK QUOTATIONS

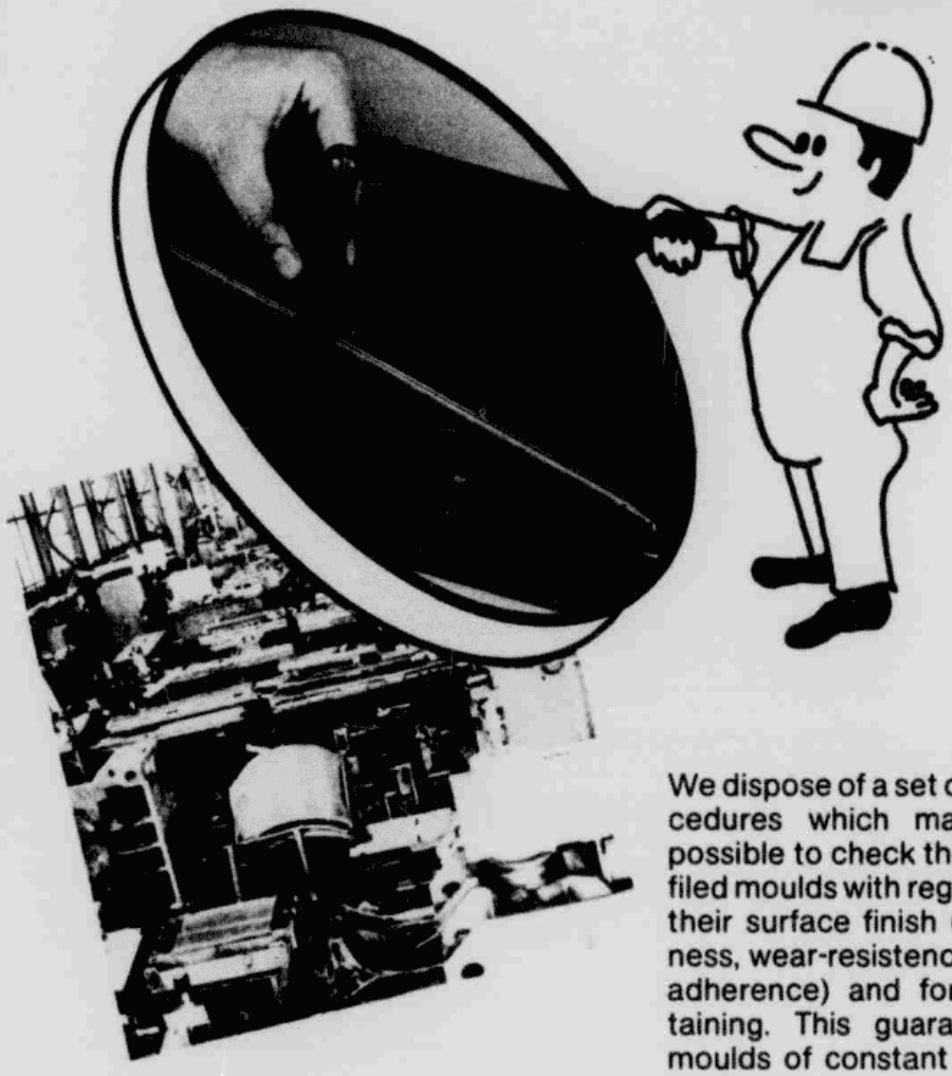
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Abitibi Asbestos	C$1.10
Advocate Mines	C$3.40
Armstrong Cork	19¼
Armstrong Ck (pfd 3.75)	45¾
Asarco	15¾
Asbestos Corporation	C$41.25
Bendix	42
Bendix (pfd 3)	84
Carlisle	27
Cassiar Asbestos	C$10.625
CertainTeed	20¼
Charter Conso	pence 156
Colt Industries	40⅝
Colt (pfd 1.60)	32½
Colt (pfd 4.25)	87
Conwest	C$6.875
Flintkote	35
F-kote (pfd-B 2.25)	42½
GAF Corporation	14⅝
GAF (pfd 1.20)	18⅝
Gulf & Western	15½
G&W (pfd 2.50)	35
G&W (pfd 3.87)	75½
IC Industries	31¼
IC Ind (pfd 3.50)	49½
Jim Walter Corporation	32
Jim Walter (pfd 1)	11½
Jim Walter (pfd 1.60)	32½
Johns-Manville	32⅞
Kennecott Copper	23½
Lear Siegler	23⅛
Lear Siegler (pfd 2.25)	56⅝
Maremont	25⅝
McAdam Mining	C$.315
National Gypsum	19⅜
Pathfinder	C$.33
Porter, H. K. (pfd 5.50)	79
Raybestos-Manhattan	34¼
Rio Algom	C$34.375
Supradur	Bid 4; Asked 4¾
Union Carbide	40⅝
Woodsreef Minerals	C$.49

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MEN ON THE MOVE

ASARCO INC.

Charles F. Barber, Chairman of the Board of Asarco Inc. announced the election of *William M. Agee* and *Malcolm Baldridge* as Directors. Mr. Agee is Chairman, President and Chief Executive Officer of The Bendix Corporation. Mr. Baldridge is Chairman and Chief Executive Officer of Scovill Manufacturing Company. . . . *Ronald J. O'Keefe* and *Bryan J. du Laney* were appointed Assistants to the Treasurer, it was announced by *Robert J. Plumb, Jr.*, Treasurer. Mr. O'Keefe joined Asarco in 1963 as a Tax Accountant and subsequently was promoted to Supervisor of Foreign Taxes and Assistant Tax Manager. Mr. du Laney joined the firm in 1970 as a Credit Analyst and was named General Credit Manager in 1977. . . . *Fred Jean* was appointed General Credit Manager, replacing Mr. du Laney. Mr. Jean joined Cement Asbestos Products Company, a subsidiary of Asarco, in 1972 as Credit and Traffic Claims Manager. He became Asarco's Regional Credit Manager in 1975. . . . *Edward P. Hyland* succeeded Mr. Jean as General Credit Manager for Asarco. Mr. Hyland joined the company in 1976 as a Credit Analyst, having held similar positions with Dun & Bradstreet and the First Jersey National Bank.

BRINCO LTD.

Hugh R. Snyder has resigned as President and Chief Executive Officer of Western Mines Ltd., Vancouver, to become President of Brinco Ltd., Toronto. He succeeds *Graeme Elliot* who became President on an interim basis following the recent resignation of *D. R. DeLaporte*. Mr. Snyder had previously been with Brinco from 1970 to 1974, serving as Financial Analyst, Executive Assistant to the President, Vice President and General Manager of British-Newfoundland Exploration Ltd., a wholly-owned subsidiary of Brinco, and Manager of Corporate Development.

CASSIAR ASBESTOS CORPORATION LTD.

John J. Ellis is now Marketing Manager for Cassiar Asbestos Corporation Ltd., effective September 1, 1978. He had been Manager Operations at the Cassiar Mine for the past two years. Mr. Ellis replaces *John Gilles* who left the employ of Cassiar the end of August. Mr. Gilles is no longer involved in the Asbestos Industry.

STANDCO INDUSTRIES, INC.

R. Fred Klein was named Sales Manager of the Coated Products Division of Standco Industries, Inc., responsible for marketing the Standcote line of fluorocarbon-coated bolt products. He joined Standco with 14 years experience in the coating industry. . . . *Elliott N. Felt* is the new General Manager of the Bolt Division. He has several years experience as a financial consultant.

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BIRTHDAY GREETINGS to . . .

Norman Visnes, Vice President-Mining, Asarco Inc., New York City, October 16.
Frances E. Mett, President & Treasurer, Powhatan Mining Company, Baltimore, Maryland, October 18.
R. B. Draper, Managing Director, Trist, Draper Ltd., Bristol, Brislington, England, October 20.
Monroe Harris, Senior Vice President, Mining Group, Johns-Manville Corporation, Denver, Colorado, October 22.
James H. Plummer, Chairman of the Board, Pars Manufacturing Company, Ambler, Pennsylvania, October 22.
James C. Murphy, Vice President & General Manager, Flooring Division, The Flintkote Company, East Rutherford, New Jersey, October 23.
J. R. Sim, Personnel Director & a Director, Cape Industries Ltd., London, England, October 30.
A. T. Reid, a Director, James Hardie Asbestos Ltd., Sydney, New South Wales, Australia, October 31.
Milton Q. Scowcroft, Director-Textile Group, Raybestos Manhattan Industrial Products Co., North Charleston, South Carolina, November 3.
J. D. Keeble, Managing Director, Cape Building Services Ltd., Watford, Hertfordshire, England, November 4.
L. G. Stopford Sackville, Deputy Chairman, Cape Industries Ltd., London, England, November 4.
William Maaskant, Sales Manager, Amatex Corporation, Norristown, Pennsylvania, November 5.
Dirk Salomons, Director & President of the Board, Asbest-cementindustrie Asbestona N.V., Harderwijk, Holland, November 5.
Dr. Robert J. Merrill, Managing Director, Chrysotile Corporation of Australia Pty. Ltd., and a Director, Woodsreef Mines Ltd., Barraba, New South Wales, Australia, November 6.
Dr. Hilton C. Lewinsohn, Corporate Medical Director, Raybestos-Manhattan, Inc., Trumbull, Connecticut, November 7.
Melvin Berlund, Superintendent, Atlas Asbestos Company, Coalinga, California, November 9.
John A. McKinney, President & Chief Executive Officer, Johns-Manville Corporation, Denver, Colorado, November 9.
Richard O. Moebius, Textile Mill Superintendent, RM Friction Products Company, Manheim, Pennsylvania, November 10.
Monte C. Carpenter, President & Chief Operating Officer, The Flintkote Company, Stamford, Connecticut. November 12.
William A. Sells, Vice President-Production & Engineering, Johns-Manville Corporation, Denver, Colorado, November 12.
W. B. Callan, General Manager-Thetford Operations, Asbestos Corporation Ltd., Thetford Mines, Quebec, November 14.
K. H. Dixon, Deputy Chairman & Chief Executive, TBA Industrial Products Ltd., Rochdale, Lancashire, England, November 14.
George W. O'Dair, Senior Vice President for Finance, Johns-Manville Corporation, Denver, Colorado, November 14.
George L. Romine, Vice President-Abex & President, Friction Products Group, Abex Corporation, New York City, November 14.

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JACK FORD—RETIRES SCAPA TEXTILES LTD.

Jack Ford retired June 30, 1978, as Managing Director of Scapa Textiles Ltd., Bamford, Lancashire, England, although he has agreed to continue as a Board Member on a part-time basis as Design and Development Consultant.

From 1926 until 1965, Mr. Ford was with Thomas Hardman & Sons Ltd. at the Fernhill Mill in Bury, Lancashire. At the time of Scapa's merger with Porritts & Spencer in 1968, he was a Director of Scapa Dryers and of Scapa Textiles, shortly thereafter becoming a Director of P&S Textiles. With the development and physical moving of Scapa Textiles to Bamford, he relinquished his directorships and became Managing Director of Scapa Textiles. In 1977 he was awarded the Queen's Silver Jubilee medal for services to export.

Mr. Ford's technical and practical knowledge in the development and operation of felts, particularly those used in the asbestos-cement industry, is so extensive that his advice is sought by firms around the world. He is a pioneer and patentee in the application of needling methods and the heat-setting of synthetic fibers. The former system, introduced in 1961, revolutionized the manufacture of certain classes of felt, while a combination of these techinques greatly lengthened life span for natural fibers.

Mr. Ford's only son, Ian, has been appointed chief executive of Scapa Textiles, assuming the titles of Director and General Manager.

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ORDERS FOR THE FOLLOWING MAY BE PLACED THROUGH "ASBESTOS." UNLESS OTHERWISE NOTED. PLEASE INCLUDE REMITTANCE WITH ORDER AND SPECIFY SEPTEMBER 1978 AS DATE OF LISTING. ALL CHECKS MUST BE ISSUED IN U.S. FUNDS ON A U.S. BANK.

ASBESTOS AND DISEASE—Authored by I. J. Selikoff & D. H. K. Lee; presents a critical review of current knowledge on the relationship of exposure to asbestos and the subsequent development of disease; discusses opportunities for exposure to asbestos during extraction, processing and manufacturing; covers the distribution of asbestos to the environment, the etiology, prevalance and clinical features of resultant disease processes, the cellular mechanisms of patho-genesis and various legal and engineering procedures involved in prevention and control; criteria for establishing cause-and-effect relationships of a presumptive agent are developed by modifying and extending Koch's postulates to meet multifactor situations—and on the basis of these criteria the authors establish the etiology of four pathogenic processes, i.e., parenchymal asbestosis, pleural asbestosis, mesothelioma and asbestos-associated carcinoma. [544 pages including many illustrations plus 800 references; $39.50 per copy; Academic Press, Inc.]

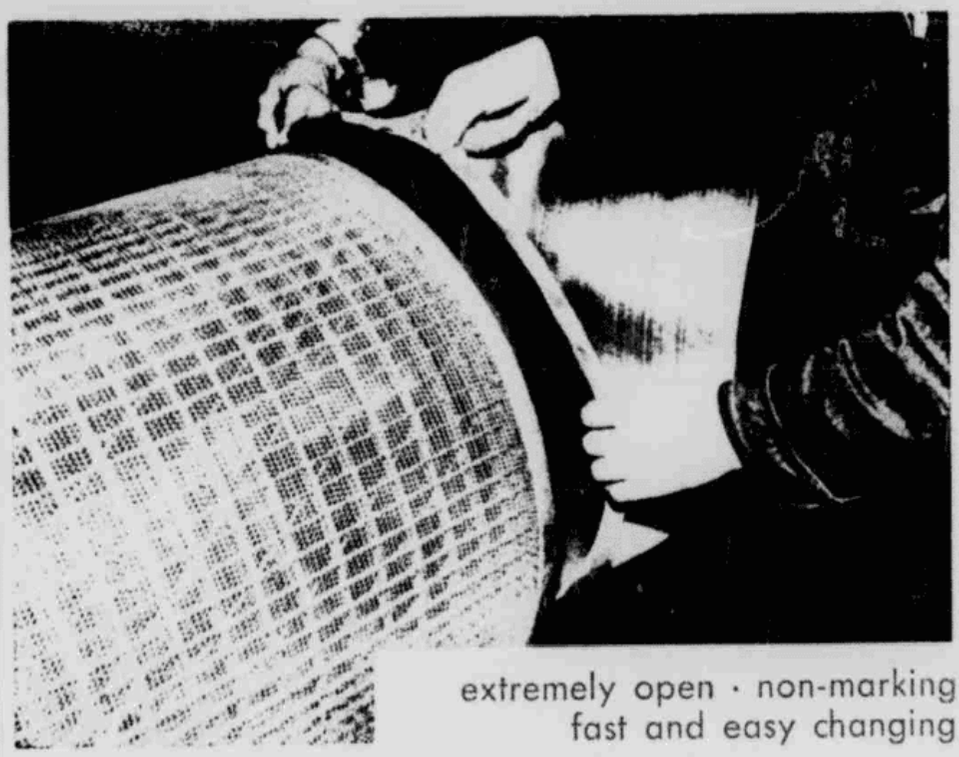
ENVIRONMENTAL POLLUTANTS: DETECTION AND MEASUREMENT—Proceedings of the 10th Rochester International Conference on Environmental Toxicity; examines established methods of detecting and measuring pollution, plus new sophisticated methods which are in the process of being investigated for possible use in toxicity studies; emphasizes the principles involved in making measurements and includes descriptions of physical, chemical and behavioral methods including techniques utilizing electrothermal atomization, atomic absorption, lasers, spectroscopy, photometry, electron microscopy, microprobe analysis, gas permeation, X-rays and neutron activation analysis. [512 pages, $42.50 per copy; Plenum Publishing Corporation]

HEALTH AND SAFETY IN THE CANADIAN MINING INDUSTRY—Report on a study by G. W. Gibbs and P. Pintus, Centre for Resources Studies; points out that Canada does not have one central authority responsible for occupational health and safety and the resulting nonuniformity of records complicates the analysis and detection of problems; calls for employers and employees insisting that governments establish a uniform, nationwide standard of measurement, reporting and control of mining accidents, health conditions and exposures; contains a 29-page section on asbestos and asbestos-related disease. [270 pages; C$5.50 per copy; place orders with and request additional information from Dr. C. G. Miller, Centre for Resource Studies, Queen's University, Kingston, Ontario K7L 3N6, Canada]

ENVIRONMENTAL COMPLIANCE SERVICE—Consists of the following elements: the Environment Compliance Manual, quarterly updates, quarterly newsletters to highlight current developments, action bulletins and an information hot line for person-to-person queries; covers the areas of air and water pollution, toxic substances, solid waste disposal and radiation and noise control; assists in simplifying the vast tangle of environmental laws

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and clarifies relationships between federal, state and local laws. [$185.00 per annual subscription; looseleaf binding; The Center for Compliance Information]

DESIGNING FOR NOISE CONTROL—Proceedings of the 1978 International Conference on Noise Control Engineering; papers cover the control of machinery, industrial, in-plant, transportation and building noise and instrumentation and analysis techniques for noise control. [1088 pages; $35.00 per copy; Institute of Noise Control Engineering]

CANADIAN MINES HANDBOOK—Contains the latest information on exploration, development and production of the mineral industry in Canada; describes over 3,000 companies including the location of properties, company directors and officers and financial information; a 28-page map section shows mining areas in Canada and a summary of producing mines includes mill rated capacity and operating rates; lists Federal and provincial mines departments and some 30 associations related to the mining industry; contains export and production tables for 1977, a metric conversion table and stock and price data. [400 pages; $14.00 per paperback copy; $17.00 per leatherette copy; Northern Miner Press Ltd.]

THE INSULATION HANDBOOK, 1978-1979—11th edition concerned with thermal, acoustic and vibration insulation materials; 38 tables update the many changes in the insulation industry and the introduction of new products; discusses solar energy and the principles of thermography; contains a list of the members of the Thermal Insulation Contractors Association and of contractors licensed for the stripping of asbestos-containing materials; discusses sound insulation against noise. [306 pages; $8.00 per copy; Lomax Wilmoth & Co. Ltd.]

PNEUMOTRANSPORT 4: VOLUME I—Collection of papers presented at the 4th International Conference on the Pneumatic Transport of Solids in Pipes, held June 1978; pneumatic conveying systems offer several advantages when moving solids within a factory complex or over a considerable distance; materials in transit are protected from contamination, theft and adverse weather conditions while the enclosed pipe cuts out possible environmental damage arising from dust or spillage; pipelines are compact, have high carrying capacity and are flexible and easily automated. [$50.00 plus postage and packaging; includes Volume I, now available, and Volume II which will be printed shortly and will contain discussions, a list of delegates at the Conference and any late contributions. [British Hydromechanics Research Association/Fluid Engineering]

MAN TECH JOURNAL—New, quarterly, management magazine announced by the U.S. Army and its Materiel Development and Readiness Command; represents a unique effort by the Army to share its manufacturing technology accomplishments with the other military services and with industry; relates the latest achievements in manufacturing technology made as a result of the Army's $7-billion investment over the next 20 years to completely re-equip its production facilities. [$10.00 per one-year subscription to the United States; $15.00 per one-year subscription to all other

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countries; place orders with MCIC, 505 King Avenue, Columbus, Ohio 43201]

THE NEXT FIVE YEARS: 1978-1982—Updated version of the detailed forecast of the construction market prepared by the F. W. Dodge Division of McGraw-Hill Information Systems Company; includes thoroughly revised estimates of 1978 construction activity; predicts that by 1982 new construction will be valued at $196-billion, nearly 45% greater in contract value than in 1977 but because of steady inflation will be only about 10% greater in physical volume; covers 20 categories of structures and includes four regional analyses and forecasts for those same structure groupings. [$4,000.00 for the complete forecast; $300.00 per individual section; order from Dodge Marketing Department, 1221 Avenue of the Americas, New York, New York 10020]

Still Available . . . .

THE ASBESTOS FACTBOOK, 3RD EDITION—Compiled by the staff of ASBESTOS Magazine; written in layman's terms; offers useful information on the origin, locations and uses of asbestos; gives the chemical compositions of the various types of the mineral; contains data concerning testing methods and grades. [28 pages; $1.00 per paper-bound copy; order from ASBESTOS Magazine]

CHRYSOTILE ASBESTOS TEST MANUAL, 3RD EDITION—Prepared jointly by the Asbestos Textile Institute, Inc., and the Quebec Asbestos Mining Association; provides 34 standard methods for testing the physical and chemical properties of Chrysotile asbestos fiber. [C$25.00 per copy; place orders with the Quebec Asbestos Mining Association, 580 Grande-Allee est, Suite 320, Quebec City, Quebec G1R 2K2, Canada]

ASBESTOS/A REMARKABLE MINERAL FIBER—Reference book on asbestos by Marion S. Badollet; presents technical information on asbestos minerals and data on the chemical, physical and optical properties of Chrysotile, Riebeckite, Anthophyllite and Tremolite; contains electron micrographs, thermal analyses and X-ray diffraction patterns. [80 pages; $20.00 per copy; advance payment required; order from ASBESTOS Magazine]

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International asbestos-cement review

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NEW ASBESTOS PATENTS

U.S. PATENTS MAY BE PURCHASED FROM THE COMMISSIONER OF PATENTS, WASHINGTON, D. C. 20231, for 50¢ EACH. PHOTOPRINTS OF NON-U.S. PATENTS MAY BE PURCHASED FROM THE SAME SOURCE AT A COST OF 30¢ PER PAGE. REMITTANCES SHOULD BE IN COIN, CURRENCY OR CHECK AND THE NUMBER OF THE PATENT, NAME OF THE INVENTOR AND DATE OF ISSUE SHOULD BE GIVEN.

British 1,509,663—To improve constant friction properties and reduce wear on linings and discs, there is added to the usual friction element composition of asbestos, a phenolformaldehyde resin, a friction dust, graphite, mica, barium sulfate and metal turnings, a sizable proportion of pulverized cement clinker acts as a binder for water released upon final curing of the resin, thereby reducing formation of "blisters"; T. Karill & W. R. Olesen; assigned to A/S Roulunds Fabriker, May 4, 1978; 6 pages.

Canadian 1,026,058—An improved dispersion of fibers for producing structural shapes and the like is made by slurrying in water 70-95 parts by weight of glass fibers and 5%-30% of Grade 5 Chrysotile asbestos, optionally along with polyvinyl acetate emulsion as a binder, and agitating the mixture; W. J. Plichta & A. Schnabel; assigned to Johns-Manville Corporation, February 14, 1978; 10 pages.

Canadian 1,029,879—A pressure-sensitive pressure tape that is waterproof, weatherproof, cold sealing and permanently flexible consists of a mixture of preferably about 150 parts by weight of asphalt, 120 parts of butyl rubber, 200 parts of aluminum oxide gel grease, 350 parts of magnesium silicate, 450 parts of calcium carbonate and 100 parts of asbestos; E. C. Hand; assigned to Parr, Inc., April 18, 1973; 9 pages.

U.S. 4,085,001—In the production of a fiber-reinforced cementitious substrate having high bending strength, impact strength and resistance to peeling, the substrate is formed from an aqueous mixture of solids comprising 1%-10% by weight of glass fibers, 1%-10% of asbestos fibers, 0.3%-5% of cotton, flax, hemp, wool or silk fibers and the balance an hydraulic cement; T. Fukuwatari, K. Mishima, H. Ichimura & H. Kurihara; assigned to Asahi Glass Co. Ltd., April 18, 1978; 8 pages.

U.S. 4,085,179—The coefficient of friction of dry mix organic brake linings is improved by adding to the usual blend of asbestos, brass chips, barium sulfate and/or other friction materials phenolic resin particles which have been pre-coated and coagulated with an aqueous styrene-butadiene rubber latex, further coated with the rubber latex, and dried; M. T. Hillhouse & R. L. Ramsey; assigned to The Goodyear Tire & Rubber Co., April 18, 1978; 4 pages.

U.S. 4,086,389—A composition for forming chip-resistant coatings on steel wire electrodes used in arc welding operations comprises 3%-20% by weight of asbestos, 2%-12% of crystalline cellulose and optimum proportions of a slag former, an arc stabilizing agent, a deoxidant, an alloying agent and at least one of the metals nickel, chromium or molybdenum; T. Tanagaki, T. Koshio & Y. Tanaka; assigned to Nippon Steel Corporation, April 25, 1978; 5 pages.

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CALENDAR OF EVENTS

MANAGEMENT OF NOISE CONTROL PROGRAMS FOR OSHA COMPLIANCE—One-day courses to be held by Bolt Beranek and Newman Inc. in Denver, Colorado, on *October 2;* in Minneapolis, Minnesota, on *October 4,* in St. Louis, Missouri, on *October 6;* in Pittsburgh, Pennsylvania, on *November 3;* and in Boston, Massachusetts, on *November 20.*

FIBER AND YARN PROCESSING—Symposium of The Fiber Society, Inc.; University of Tennessee, Knoxville, Tennessee, *October 3-5.*

CORROSION—Three Continuing Corrosion Education Seminars of the National Association of Corrosion Engineers: Basic Corrosion and Corrosion Prevention by Cathodic Protection, Cleveland, Ohio, *October 8-13;* Basic Corrosion, St. Louis, Missouri, *October 15-20;* Corrosion Prevention by Cathodic Protection, Farmington, New Mexico, *October 29-November 3.*

WORKPLACE HAZARDS, REGULATORY CONTROLS AND INDUSTRY RESPONSE—Regional Conference of the American Industrial Hygiene Association; Tri-Arc Travel Lodge, Salt Lake City, Utah, *October 10-13.*

OCCUPATIONAL HEALTH PROFESSIONALS/YOUR LEGAL LIABILITY—22nd Annual Western Conference; Los Angeles, California, *October 12-14.*

CALL FOR PAPERS/AMERICAN INDUSTRIAL HYGIENE ASSOCIATION—The 19th Annual American Industrial Hygiene Conference will be held in Chicago, Illinois, *May 27-June 1, 1979.* Submit asbstracts by *October 15.*

INSTRUMENTATION AND CONTROL SYSTEMS—1978 Conference and Exhibit of the Instrument Society of America; Civic Center, Philadelphia, Pennsylvania, *October 15-19.*

BUILDING AND CONSTRUCTION—3rd Annual Exposition and Conference sponsored by the Producers' Council, Inc., together with leading building and construction associations; McCormick Place, Chicago, Illinois, *October 16-18.*

LASER APPLICATION IN MATERIALS PROCESSING—An in-depth course of The Laser Institute of America; Boston, Massachusetts, *October 16-20.*

INTRODUCTION TO INDUSTRIAL TOXICOLOGY—Seminar of the American Industrial Hygiene Association; Sheraton Inn, Newark Airport, Newark, New Jersey, *October 17-18.*

ENVIRONMENTAL LAWS AND REGULATIONS—A series program held by Government Institutes, Inc.; the Introductory Course will be in New Orleans, Louisiana, on *October 17-18,* and in Philadelphia, Pennsylvania, on *October 25-26;* the Masters' Seminar will be conducted in Washington, D. C., on *November 16-17.*

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ARTS AND CRAFTS HAZARDS—First National Conference of the Society for Occupational and Environmental Health; Chicago, Illinois, *October 19-20.*

GEOLOGY/MINERALOGY/GEOSCIENCE—Joint Annual Meeting of the Geological Association of Canada, the Mineralogical Association of Canada and the Geological Society of America; Royal York and Sheraton Center Hotels, Toronto, Ontario, *October 23-26.*

INTRODUCTION TO INDUSTRIAL HYGIENE: A PROFESSIONAL APPROACH—A new Continuing Education Course of the American Industrial Hygiene Association; *October 23-27* in San Francisco, California; *November 13-17* in Washington, D. C.; and *December 11-15* in Pompano Beach, Florida.

MATERIALS TECHNOLOGY—5th Inter-American Conference sponsored by the U.S. National Bureau of Standards and other national and international organizations; Sao Paulo, Brazil, *November 5-10.*

PUBLIC WORKS—1978 Congress and Exhibition; National Exhibition Center, Birmingham, England, *November 13-18.*

ANALYTICAL TECHNIQUES IN ENVIRONMENTAL CHEMISTRY—International Congress sponsored by several worldwide societies; Barcelona, Spain, *November 21-30.*

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Remember When?

(August 1928 ASBESTOS)

This issue contained an article on the use of X-rays for identification and specification of asbestos. It described, at some length, the use of X-ray diffraction patterns to identify exact types of asbestos and, in many cases, the districts in which they were mined.

The rapid proliferation of asbestos mining companies in the Union of South Africa led to publication of a list of nine relatively new concerns engaged in some phase of the business. These firms had capital ranging from £2,000 to £5-million and all had been founded within the preceding six months.

ASBESTOS reported the death of Frederick Winters Griffith, at the age of 70. At the time of his death, Mr. Griffith was President, Treasurer and a Member of the Board of Directors of the Garlock Packing Company, Palmyra, New York. He also was one of the Founders of that company.

The formation of Australian & General Asbestos Company, with a capital of $100,000, was reported. Its stated purpose was to acquire four asbestos-bearing properties near Sherlock in the West Pilbara District of Western Australia.

Shabanie Mines was said to be doubling the size of its main power plant to cope with increasing demand for its asbestos. The improvement was intended to permit a substantial increase in the mine's workforce which then totaled some 3,600 natives.

The South African Government held a series of meetings to discuss improvements in facilities for transporting asbestos from the rapidly growing mining properties in the Pietersburg District. Activities in the area had become of great economic importance to the entire Country.

(September 1928 ASBESTOS)

New Advertiser: Union Asbestos & Rubber Company, Cicero, Illinois.

The lead article in this issue described the methods then in use for grading asbestos fibers in various parts of the world. Countries covered included Canada, Cyprus, South Africa and Australia.

The death of Chester L. Hill, which occurred on August 6, 1928, was reported. Mr. Hill was one of the Founders of United States Asbestos Company, Manheim, Pennsylvania, and was an outstanding pioneer in the asbestos textile industry in the U.S. during a period of some 20 years, starting in 1906.

It was reported that Vermont Asbestos Company had taken over the business of The Asbestos Corporation of Vermont which had been operating the asbestos property at Belvidere Mountain, Vermont. The new company expected to process up to 300 tons of rock per month during 1928 and to increase this to 1,000 tons per month in 1929.

Asbestos Magazine, 1978, September 1978
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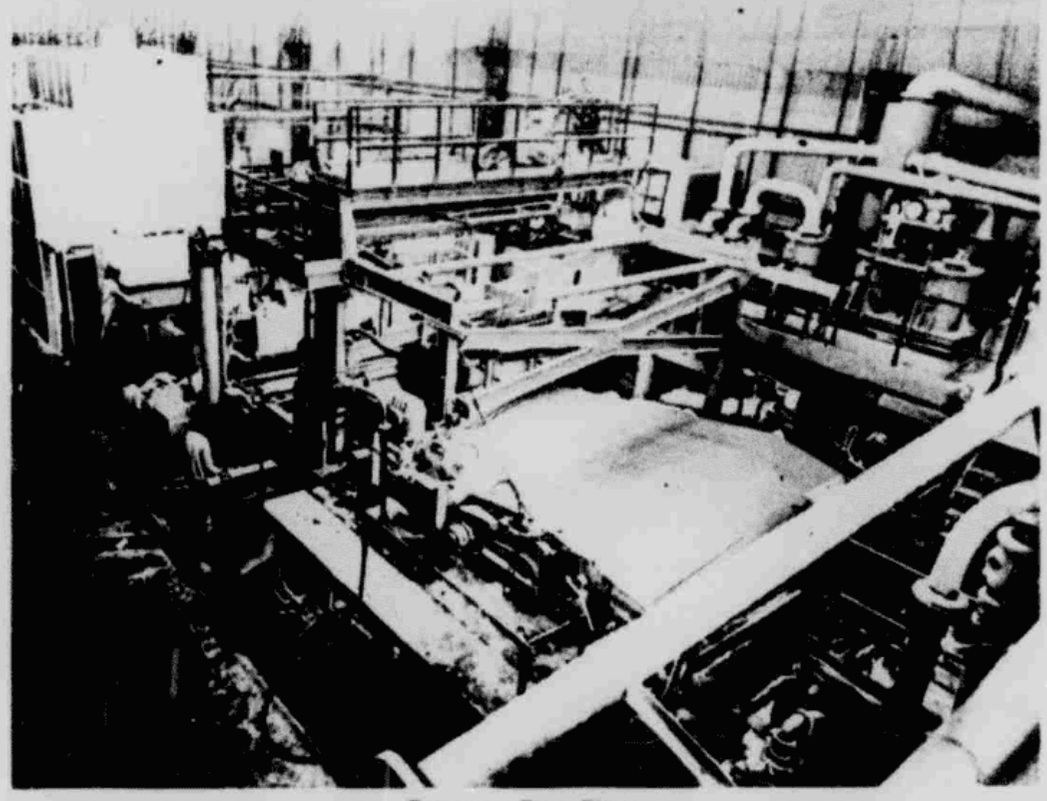
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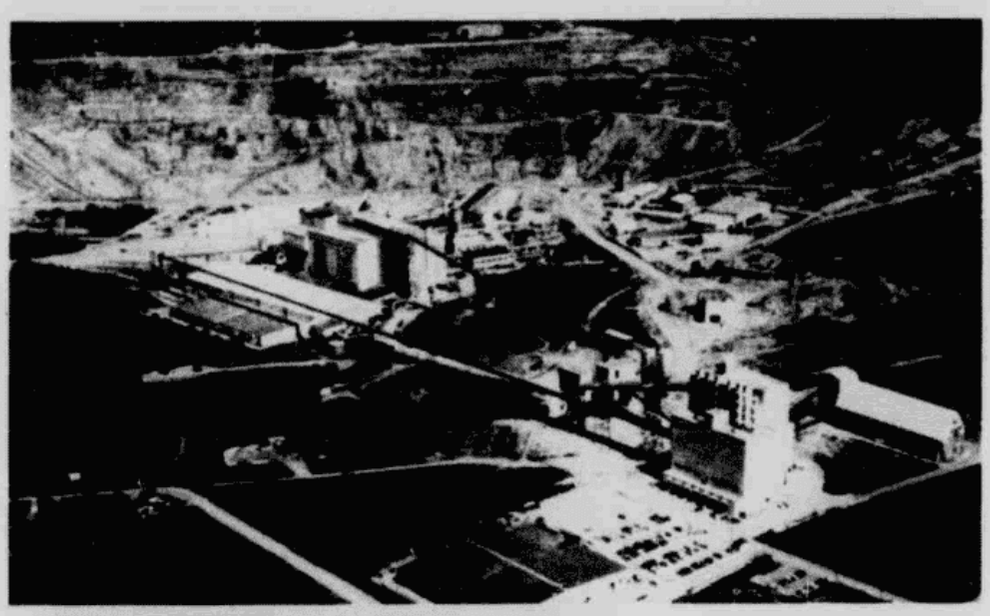
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