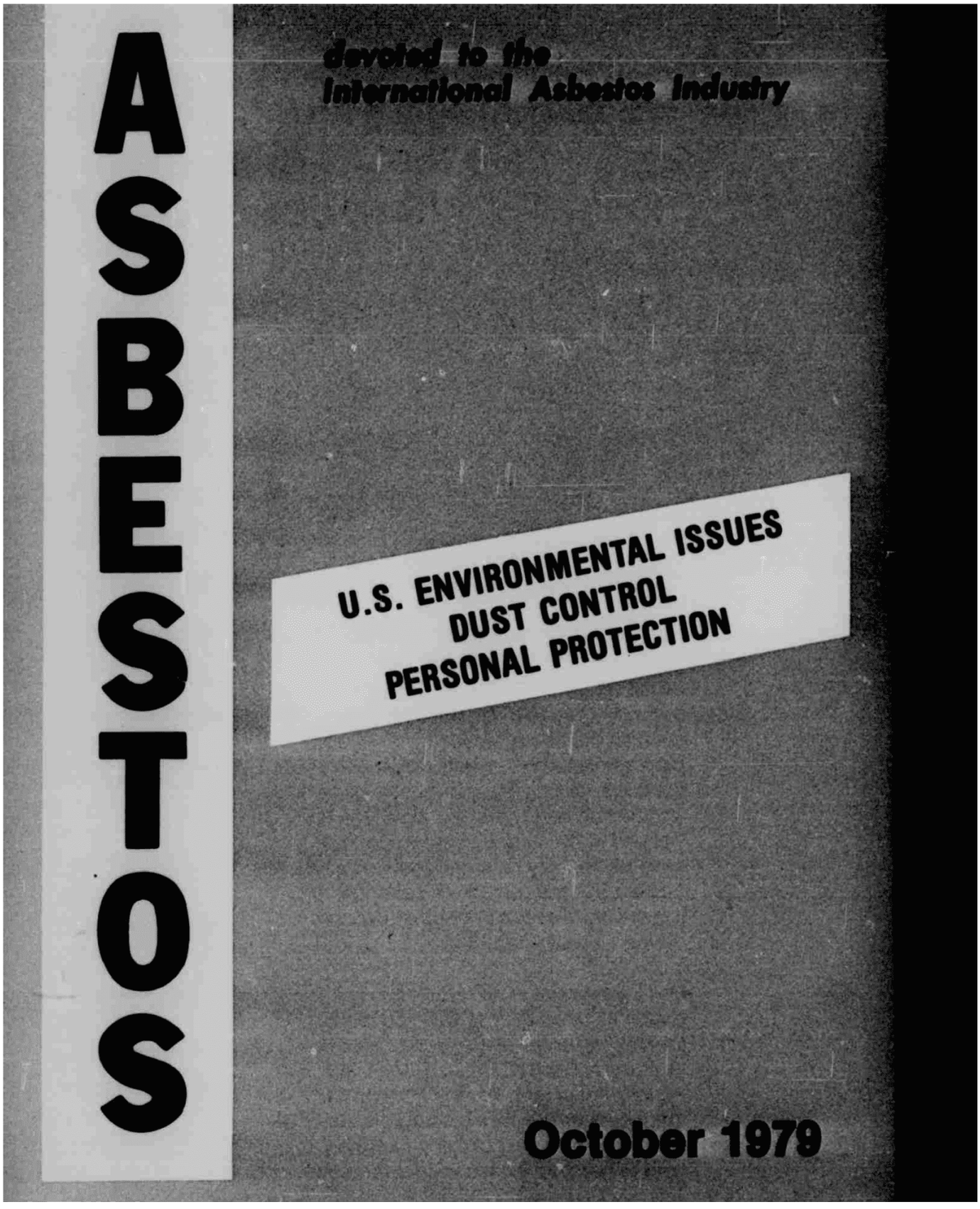


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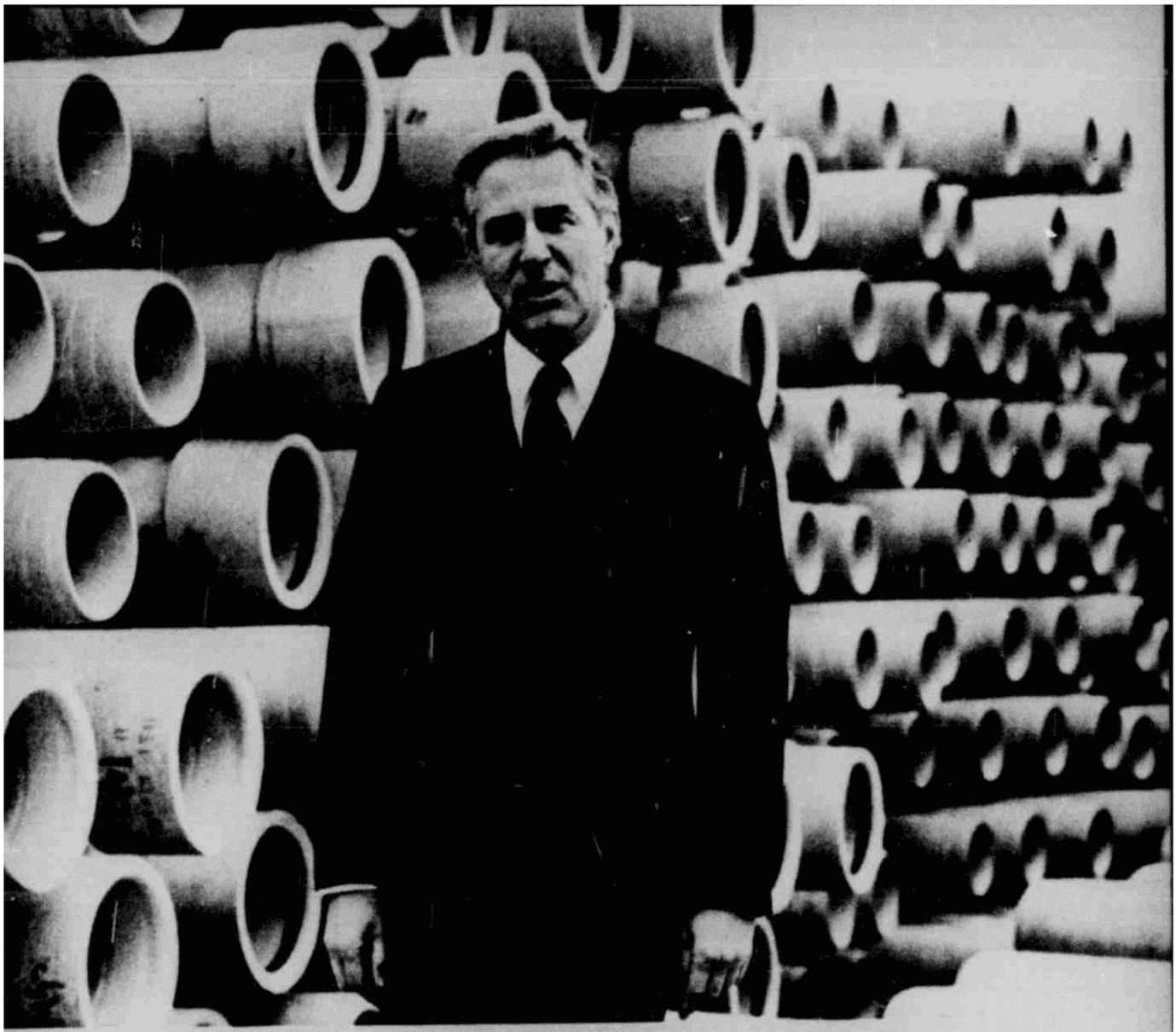
We're helping industry appreciate the "locked in" benefits of asbestos with ads like this one.

We want our customers to continue taking advantage of the unique properties of asbestos. Too often, their ability to do so is hindered by decisions based on emotion rather than factual information. So we're calmly and repeatedly explaining the facts about asbestos-containing products in a series of full page, four-color ads, appearing regularly in the industrial edition of *Business Week*.

The advertising program is designed to let industry management know that in an extensive range of finished products, such as asbestos/cement sheets and pipe, gasketing materials, asphalt-based coatings, latex and resin-bound papers, and friction materials, the asbestos is "locked in" by various binders to form environmentally safe materials. And once "locked in," the release of asbestos into the environment will not be significant during normal product use.

Our investment in advertising is not nearly as large as that directed toward developing safer ways to ship, handle, and use asbestos. But in many ways, it's equally important. We think it's part of our job as the world's leading producer of asbestos. And part of our continuing commitment to the future of asbestos.

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When our asbestos is used in the manufacture of pipe products, it becomes 'locked in'. So our customers can keep on using it.

Asbestos is an important component in one out of every four feet of underground water and sewer pipe installed today in the United States. These pipes, and an extensive range of other finished products, contain asbestos that is "locked in" by cement, asphalt, rubber, latex, or other binders, to provide environmentally safe materials. Once "locked in," the release of asbestos into the environment will not be significant during normal product end use.

As a result, our customers can continue taking advantage of the unique properties of asbestos. In thousands of asbestos-containing products, asbestos serves an essential function that has not been duplicated on a cost-performance basis.

While EPA and OSHA have established standards that limit the amount of airborne asbestos generated during production or fabrication of a product in hazards associated with the proper end use of finished products where the asbestos is "locked-in."

As one of the world's leading suppliers of asbestos, we at Johns-Manville are vitally concerned with helping our customers meet these standards. On any problem anywhere, we're ready to help.

We have years of experience in creating systems that effectively and economically control asbestos dust generated in the handling of asbestos fiber and in the machining and fabricating of products containing asbestos. Our experience can help you to eliminate or substantially reduce employee exposure to asbestos.

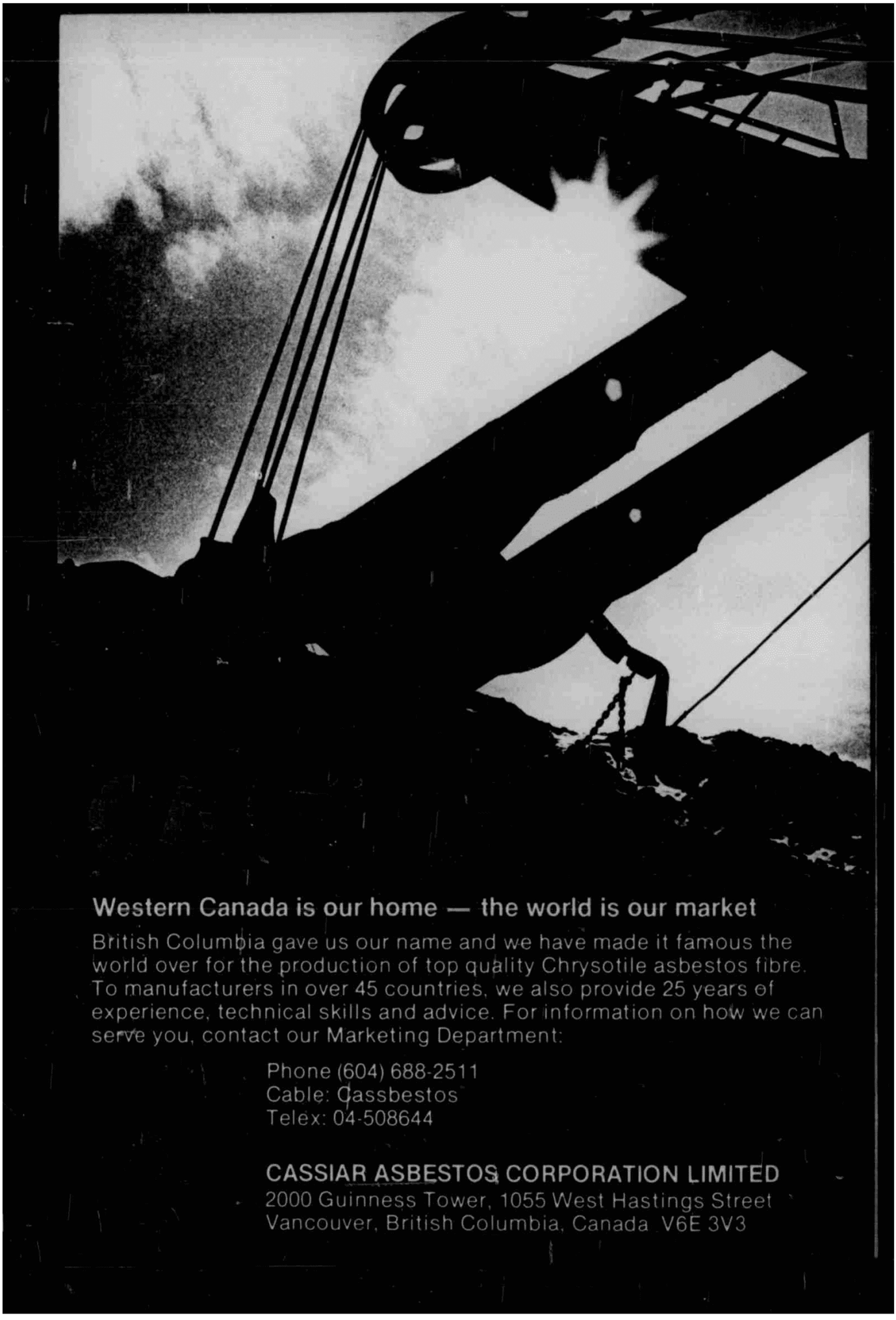
For example, we package asbestos in pulpable bags that are added directly to the mix where they disperse along with the asbestos. Other bags can be opened automatically with dust-controlled

In shipping, we utilize damage-free bulkhead rail cars and shrink-wrapped palletized units to help prevent damage during shipment and storage. We're also developing new methods of shipping such as high-density fiber blocks and other innovations that will help maintain dust-free environments and make it easier to handle asbestos safely.

We'd like to help. For more information on the safe handling of asbestos, write on your company letterhead to Jim Reis, Asbestos Fiber Division, Johns-Manville, Ken-Caryl Ranch, Denver, CO 80217.

JM

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Cable: Cassbestos
Telex: 04-508644
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Vancouver, British Columbia, Canada V6E 3V3

ASBESTOS

VOLUME 61 OCTOBER 1979 NUMBER 4

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U.S. ENVIRONMENTAL ISSUES

AIA/NA HOLDS SUCCESSFUL CONFERENCE

In conjunction with its 9th annual meeting held last month, the *Asbestos Information Association/North America (AIA/NA)* also sponsored an Industry-Government Conference. Attended by over 160 persons, the two-day program covered a variety of subjects of special interest to the Asbestos Industry. Panel discussions covered the Industry's efforts to develop recommended work practices for the safe use of asbestos-containing products in the construction industry, a review of current and prospective regulatory actions by U.S. federal agencies, and an up-date on the asbestos-health relationship. Individual speakers from government, industry and medical science completed the program.

TRANSPORTING OF ASBESTOS

The *U.S. Department of Transportation, Materials Transportation Bureau,* published additional revisions of Amendment No. 173-123 concerning the transportation of commercial asbestos. The revisions will permit carriage of asbestos by private carrier in dust and sift-proof bags and other non-rigid packaging without palletizing and unitizing and in dust and sift-proof bags and other non-rigid packagings within fiberboard or wooden boxes when shipped in less than pallet load quantities. The revision also clarifies the authority to ship leaktight hopper cars and leaktight hopper motor vehicles and provides a grandfather clause for shipments initially shipped and transported prior to August 20, 1979. The revisions and the complete final ruling have been in effect since August 20, 1979. [8/16/79 Federal Register, pages 47937-39]

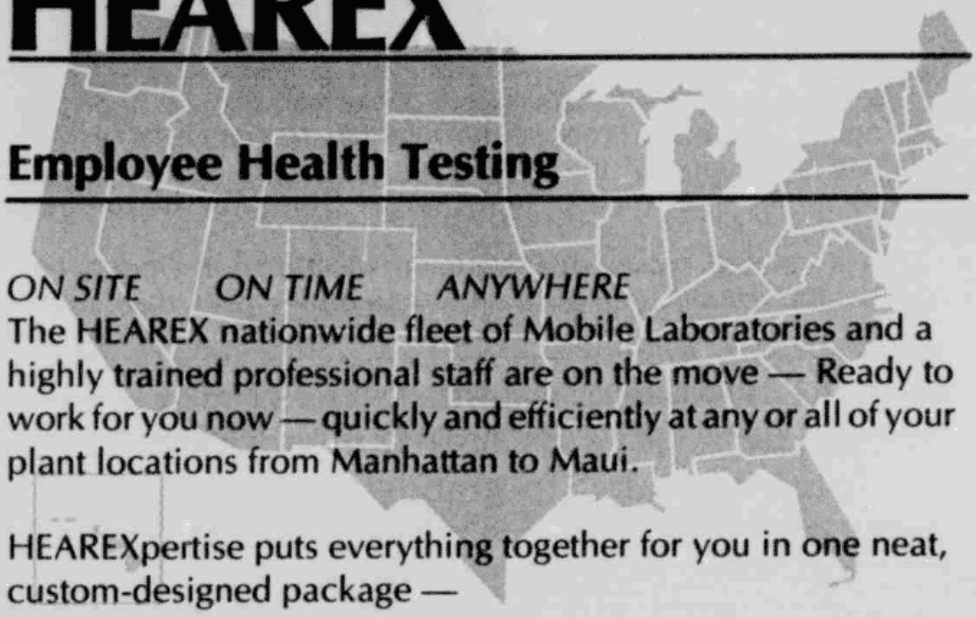
ASBESTOS IN SCHOOLS

In the Federal Register of September 20, 1979 (pages 54676-80), the *U.S. Environmental Protection Agency (EPA)* initiated a rulemaking proceeding under the Toxic Substances Control Act (TSCA) regarding friable asbestos-containing materials in schools. In its Advance Notice of Proposed Rulemaking (ANPRM), EPA discusses its plan to require a survey of elementary and secondary schools to determine whether they contain such materials. Also to be required is corrective action in situations which present

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an unreasonable risk to the health of students, teachers or others who use or work in the school buildings. In addition, periodic re-evaluation of friable asbestos remaining in schools would be required to determine if subsequent corrective action is necessary. The agency hopes to propose the ruling in January 1980 and promulgate it by June of that same year. Comments should be received by the TSCA Document Control Officer by November 5, 1979.

In a related move, the *National Institute for Occupational Safety and Health (NIOSH),* in cooperation with the *National Cancer Institute (NCI)* and the *National Institute of Environmental Health Sciences (NIESH),* announced that competitive grant applications for demonstration programs for safe asbestos removal or treatment in schools will be accepted until December 1, 1979. [10/10/79 FR; page 58546]

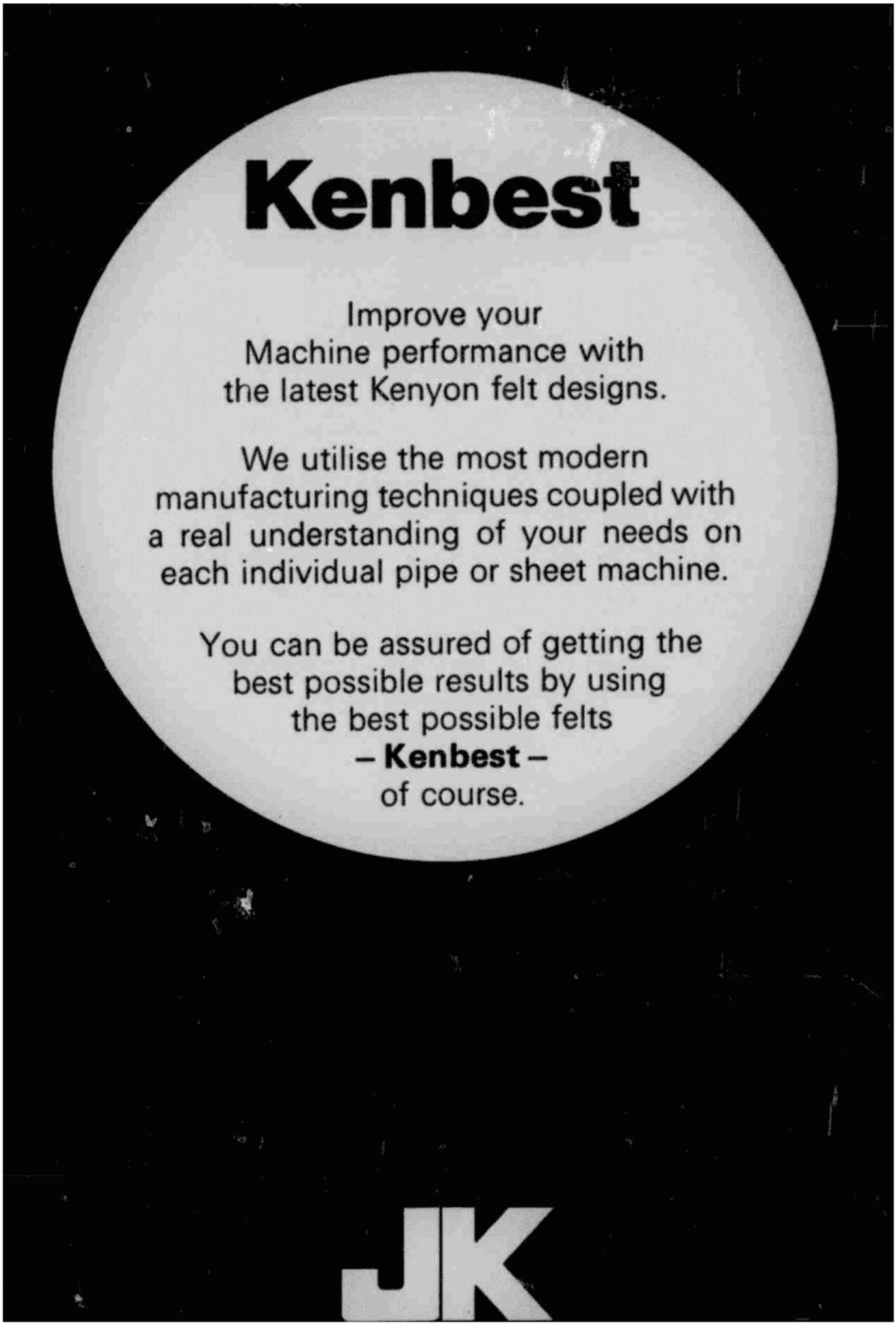
HOUSE/SENATE BILLS

"The Asbestos School Hazard Detection and Control Act of 1979," was introduced in March by *Rep. George Miller (D-Calif).* The bill, HR. 3282 (1524) was rapidly passed through the *House Subcommittee on Elementary, Secondary and Vocational Education.* Later in the month the full *Committee on Education and Labor* vigorously debated the measure which would require contribution into an Asbestos Hazards Detection Fund from any company which was engaged, during the period 1946 through 1972, in the mining, refining or importation of asbestos which was ultimately used in a consumer construction material. When reported out by the full committee, the controversial section had been deleted. However, a new provision directs the U.S. Attorney General to conduct an investigation and report the results to Congress within one year of the effective date of the Act, to determine if the United States should or could recover, from any person determined by the Attorney General to be liable for such costs, the amounts expended by the U.S. to carry out the Act. The next step is for the bill to be acted upon by the full *U.S. House of Representatives.* It has been reported that an effort to reinstate the industry funding provision will be made by Rep. Cecil Heftel (D-Hawaii).

On August 2, *Senator Jacob Javits (R-New York)* introduced S.1658. It is similar to HR. 3282 although no industry funding provision is included.

In a press release dated July 26, *Rep. Miller* announced he had, along with 41 cosponsors, introduced HR 4973 to establish "tough criminal penalties for corporate officials who knowingly conceal information about health and safety hazards from their

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employees and the public." Failure to warn the appropriate people if the bill is passed in its present form, would subject a convicted offender to a fine of at least $50,000 or a jail term of at least two years, or both. Rep. Miller cited recent examples of alleged coverups he is seeking to eliminate, with special emphasis on the Asbestos Industry.

EPA/CPSC JOINT STATEMENT

The Federal Register of October 17, 1979 (pages 60055-68), contains two ANPRM's regarding exposure to asbestos. The notices were issued by the *U.S. Consumer Product Safety Commission (CPSC)* and *EPA*. Purpose of the joint statement is to explain the interrelationship of the proposed regulatory efforts by the two agencies and to assure the public that the investigations and possible resulting regulations will be coordinated, compatible and nonduplicative.

EPA and CPSC hope to achieve the following objectives. First, to significantly reduce unreasonable human health risk from exposure to asbestos through complementary actions. Second, to reduce potential reporting burdens on industry by coordinating information gathering under their respective statutory authorities. The plan is to share all available data, while maintaining the confidentiality of business information, in accordance with applicable law. The third aim is to avoid inconsistent or needlessly burdensome regulations. Each agency's regulatory actions which may result from these investigations will be developed in close consultation with the other agency.

Both agencies recognize there may be a need for remedial actions individually tailored to specific products or uses as well as broader controls.

The EPA notice describes that agency's broad effort to systematically gather information on asbestos exposure sources and to evaluate health risk from these sources based on the "life cycle" concept. In the life cycle analysis, the cumulative risk from exposure to asbestos is examined from primary processing through end use and disposal.

The CPSC notice describes a narrower approach to the investigation of possible health risks which may be associated with the use of asbestos in a number of consumer products.

EPA anticipates that any rules it develops to control unreasonable asbestos risk will evolve chiefly from a combination of the following regulatory approaches. Under the first approach, the agency might promulgate rules that prohibit the processing, manufacture and use of certain asbestos-containing products or

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The BestoShield coverall is also available coated with polyethelene [illegible] to provide water repellency, grease and oil resistance and an effective acid resistant barrier. These coveralls have a Frazier Air Permeability of .0.

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product categories. Under the second approach, the agency might limit the annual amount of asbestos imported and produced in the United States, or it might limit the amount of asbestos processed in the U.S. Both approaches would aim at reducing the consumption of asbestos for non-essential purposes. Both also reflect the agency's belief that many asbestos products have economically available substitutes. All rules would be designed to minimize adverse impacts on industry by providing sufficient time to adopt substitutes and eliminate asbestos processing equipment. In its notice, EPA has requested "risk" data on all asbestos products which fall into the following categories: asbestos paper, including roofing and floor underlayments; friction products; asbestos-cement sheets and pipes; textiles; flooring; gaskets and packings; paints, coatings and sealants; and asbestos-reinforced plastics.

In its notice, CPSC states that asbestos released from consumer products poses several unique problems in the household, i.e., young children and infants are subject to exposure; asbestos fibers released from consumer products into the living space can remain in a confined space over long periods of time and may be subject to repeated cycles of settling and resuspension; and household members have little or no protection from exposure to asbestos fibers released from consumer products. An appendix to the CPSC notice lists some 150 consumer products which could contain asbestos.

A/C PIPE BAN PETITION GRANTED BY EPA

On June 21, 1979, *Mr. Glenn Scott,* of Louisville, Kentucky, filed a citizens' petition under Section 21 of TSCA, 15 U.S.C. 2620. He requested that *EPA* initiate a proceeding for the issuance of a rule to prohibit the manufacture and distribution of asbestos-cement water pipes under 15 U.S.C. 2605. The petition did not seek agency action on pipes already installed around the country. The EPA Administrator has granted the petition since the agency plans to investigate a-c pipe as part of an ongoing regulatory development program of its *Office of Toxic Substances.*

EPA STUDIES HUMIDIFIERS

Midwest Research Institute, Kansas City, Missouri, has been awarded a $159,000 contract from the *EPA Office of Toxic Substances.* Part of the contract is to investigate if home humidifiers, which add moisture to the air by a water circulation system, trans-

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fer asbestos fibers into the air and, if so, whether this poses a health hazard. Since humidifiers do not contain asbestos, the issue is whether asbestos fibers in water or from water which passes through asbestos-cement pipes can be transferred to the air through humidifiers. According to Dr. John Going, the MRI chemist who will do the sampling, even if fibers could be transferred through humidifiers, it must be determined if the asbestos level would be any higher inside a house than outside. It is possible, he said, that air turnover rate inside would disseminate the fibers so they would be no more concentrated inside than out.

EPA WATER QUALITY CRITERION

Under statutory authority of the Clean Water Act, *EPA* has issued for public comment a water quality criterion for asbestos. While publication of the criterion will have no regulatory impact in and of itself, it may form the basis for enforceable standards, says the *Association of Asbestos-Cement Pipe Producers*. The proposal focuses singularly on human health, stating: "For the maximum protection of human health from the potential carcinogenic effects of exposure to asbestos through ingestion of water and contaminated aquatic organisms, the ambient water concentration is zero." (This language is used in criteria for all potential carcinogens). As a scientific basis for the criterion, EPA has used the increased incidence of cancers of the esophagus, stomach, colon, rectum and peritoneal mesothelioma in occupationally-exposed groups. Beyond the fact that it is the first "fiber per liter" criterion, the significance of the notice is that it shows a dogged willingness by EPA to develop, and presumably accept, very imprecise "exposure indices" for asbestos. EPA will receive comments on the proposed criteria until December 31, 1979. [HEGA Report]

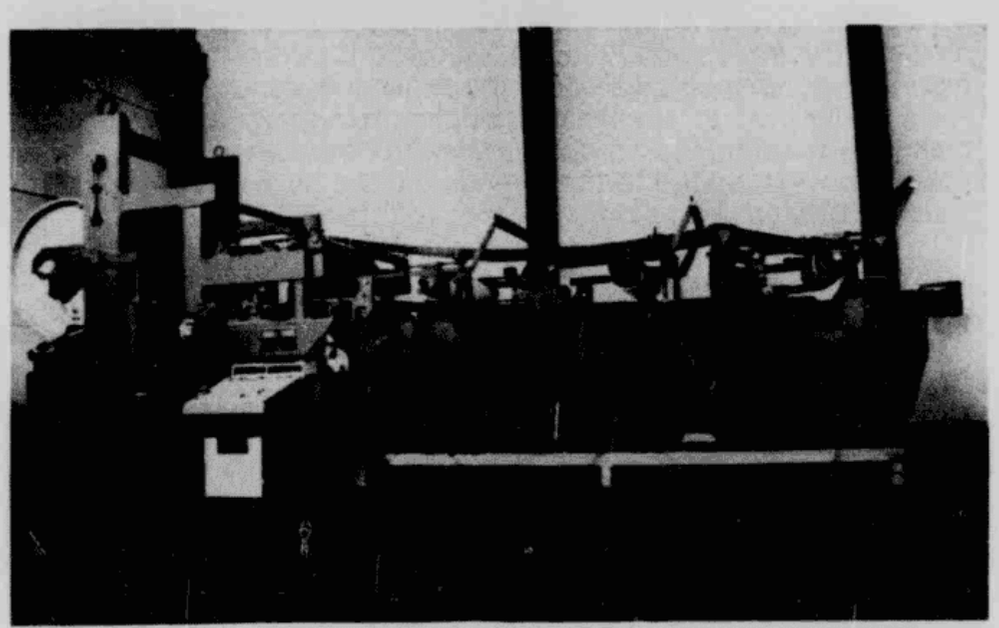
EPA INVESTIGATION

A recent *EPA* Request For Proposal suggests investigating the association between ambient exposure to asbestos and mortality from respiratory cancer, mesothelioma and cardiovascular diseases. The site of the intended study is the California Counties of Calaveras, Fresno and San Benito. Contract is to be completed within six months of the award date. [AIA/NA News & Notes]

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OSHA/NCI ASBESTOS ALERT CAMPAIGN

Details of a prospective Asbestos Alert Campaign, Phase II, jointly sponsored by the *U.S. Occupational Safety and Health Administration (OSHA)* and *NCI*, is described in a Request for Proposal issued in July by the *U.S. Department of Labor*. The informational-educational campaign is a follow-up to a similar NCI program conducted last year. Purpose of the latest campaign is "to provide an integrated program for informing and educating current, former and future workers, their families and the public about the health hazards of working in asbestos-related industries. Time frame for implementation of the program varies from four to 18 months. [AIA/NA News & Notes]

OSHA SEMINAR CRITICIZED

The media conference held last month by *OSHA* has drawn criticism from congressional and industry spokesmen as espousing a biased approach to job health issues, according to *AIA/NA*. In fact, before the meeting began, reports *Chemical & Engineering News*," there were charges that the program was designed to support the OSHA premise that there was indeed an occupational disease epidemic, with little time allowed for dissenting views. Of the 30 or so speakers listed on the preliminary program, only two were scheduled to speak for industry. However, following complaints by the *American Industrial Health Council* and others, more speakers were added to the agenda. Noted by *Dr. William J. McCarville, of Monsanto Company*, was that "we should not put price tags on human health or life" but "neither should we needlessly encumber our workplaces, strangle our economy or confuse and worry the public. . . . There is a great difference between negligence and ignorance. . . . To cry wolf based on insufficient evidence is . . . wrong." *Mr. Anthony Mazzocchi, Director of Health and Safety for the Oil, Chemical and Atomic Workers International Union*, said that occupational disease "is actually an integral part of the production process." Any attempt to reduce the incidence of disease "must reduce productivity also."

OSHA RESEARCH PRIORITIES

Foremost on the list of research needs, submitted in August to *NIOSH* by *OSHA*, is the development of priorities for and assessment of feasibility of reducing workers' exposure to confirmed carcinogens. Other items include revising and updating high priority criteria documents, recommending new asbestos sampling and counting methodologies and developing a program on personal protective equipment. [AIA/NA News & Notes]

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NEWEST IN DUST CONTROL

AEROPULSE BIN VENTS

"Aeropulse Bin Vents" is the title of a brochure recently released by *Aeropulse Inc.*, Cornwells Heights, Pennsylvania. When used with a standard pneumatic feed system the vents prevent the material from being blown out of the bin and permit only clean, filtered air to exhaust. Filter areas range from 25 to 182 square feet, for use with 3″ to 5″ feed lines.

BATSON PURIFICATION SYSTEMS

An air purification system designed to create a comfortable, healthy working environment by eliminating indoor pollutants is being marketed by *Batson Machinery, Inc.*, Greenville, South Carolina. The Batson-Alpaire Series 1300 and 3000 provide four-stage filtration and purification through a coarse polyester prefilter, a bag-type second filter and an activated charcoal final filter. The addition of an ultra-violet section kills bacteria.

DCE VOKES DUST COLLECTORS

In a brochure titled "See Us For Dust," *DCE Vokes Inc.*, Jeffersontown, Kentucky, describes its complete line of fabric filter dust collectors. Units described include the versatile Unimaster, capable of handling from 400 to 2,000 cfm; the Cased Dalamatic, a continuous-duty, pulse-jet collector which can be built in tiers or banks to configurations capable of handling from less than 1,000 to over 100,000 cfm; and the Insertable Dalamatic, designed for insertion into silos, bunkers and mechanical and pneumatic conveying systems. Also described are the Drytex and Minimaster, two compact collectors for small applications. . . . In another publication, DCE Vokes explains both the central system and the unit collector approaches to dust control. By using a sample application, the equipment, economic, energy and maintenance aspects of both approaches are analyzed.

ELTRON PRECIPITATORS

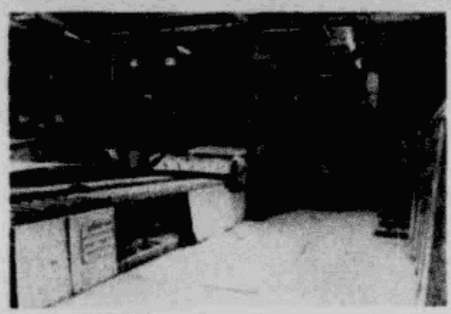
Eltron Manufacturing Inc., Bellmawr, New Jersey, announced the availability of VIBROTRON, a self-cleaning electrostatic precipitator for collecting hazardous "respirable fraction" dust and fume particles smaller than 0.01 micron. The unit utilizes

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MILLBOARD 48" SHEETING LINES, makes sheets on similar principle to Hatschek Machines with all pre-mixing equipment.

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WALMESLEY/BERTRAMS 112" FOURDRINIER PAPER MACHINE with 25 drying cylinders

BENTLEY & JACKSON 84" FOURDRINIER 2 PRESS PAPER MACHINE with 12 drying cylinders.

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KOLLARGANG or edge runner type MIXERS, 8' dia. Many complete with auger screw conveyors.

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pneumatic plate rapping to shake precipitated dust into collecting hoppers beneath each electrostatic cell. It is equally effective in ducted or unducted systems and aids in reducing the need for exhausting expensively heated or cooled air. Power consumption averages less than 0.05 watts per cfm, static pressure loss is less than 0.2" wg and the 5 to 30 second cleaning cycles require just 7 cfm (at 40-60 psig) of compressed air.

THE FERRO-TECH TURBULATOR

Ferro-Tech, Wyandotte, Michigan, reports that its Turbulator has proven to be "the best method of agglomeration of most dusts from pollution control equipment." The machine is totally enclosed, allowing the agglomeration of any fine dust (including both wet and dry asbestos dust) without the danger of air contamination. The micro-pellets can be recycled, saving precious raw materials and eliminating a disposal problem. The Turbulator has been used as a mixer and densifier before a briquetting operation. Pellets are dust-free and uniformly sized for feeding in automatic equipment.

JOHNSON-MARCH FABRIC FILTERS

Johnson-March Corporation, Philadelphia, Pennsylvania, issued a 10-page brochure to describe its PT series Sky-Kleen pulse-jet top-access fabric filters. The collectors are said to be highly efficient dry fabric filter units designed for locations where side access units cannot be used. The units are self-cleaning, contain no moving parts and are designed for air volumes from 15,000 cfm to any required capacity and for temperatures as high as 450°F. Bag cleaning is accomplished by the pulse "momentary" jet method.

TORIT DUST CONTROL PRODUCTS

The five series of industrial air pollution control equipment manufactured by *Torit Division, Donaldson Company, Inc.*, St. Paul, Minnesota, are detailed in a new brochure entitled "If It's In The Air . . . Torit Takes It Out." Featured is Torit's new TDC 1000 Model, which combines cartridge filter technology with small capacity in an intermittent-duty dust collection system. Also provided are specifications on Torit-Jet continuous-duty models, mechanical intermittent cleaning systems, cabinet dust collectors and centrifugal separators.

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TYVEK* guards against asbestos dust and particles while it cuts troublesome clothing maintenance.

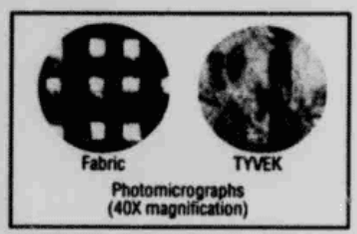
Disposable protective coveralls of Du Pont TYVEK* spunbonded olefin provide workers with an effective barrier against hazardous particulate matter.

As the photomicrographs and chart below show, the unique nonwoven construction of TYVEK results in a barrier that is several times superior to conventional fabric for asbestos holdout. Coveralls of TYVEK are used by the U.S. Navy in asbestos "ripout" operations under OPNAVINST 6260.1A.

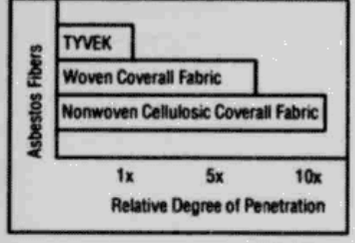
TYVEK is exceptionally tough, wet or dry. Find out how you can get maximum protection at minimum cost. Call toll free for our special brochure, 1-800-821-7700, Ext. 802 (in Mo., call 1-800-892-7655, Ext. 802) or write: Du Pont Company, Room 37383, Centre Road Building, Wilmington, DE 19898.



*Du Pont registered trademark. Du Pont makes TYVEK, not garments.



Photomicrographs (40X magnification)



DU PONT

PERSONAL PROTECTIVE DEVICES

DELTECH AIR PURIFIERS

Deltech Engineering, Inc., New Castle, Delaware, announced a new portable compressed air purifier which provides workers with clean, safe breathing air at a work site where supplied-air respiratory equipment is required. The cart-mounted purification system can be wheeled to a contaminated work area, eliminating the need for air bottles or long distribution lines from a central air purification system. The two types of portable purifiers available are continuous duty and disposable cartridge for intermittent use. . . . Deltech also announced its 22″ long, compact, portable, compressed breathing air purifier that is small enough to fit in a hand-carried case along with face masks, air hose, a water-oil separator and safety harness. The purifier operates at pressures up to 150 psig and is designed for mobile supplied-air systems.

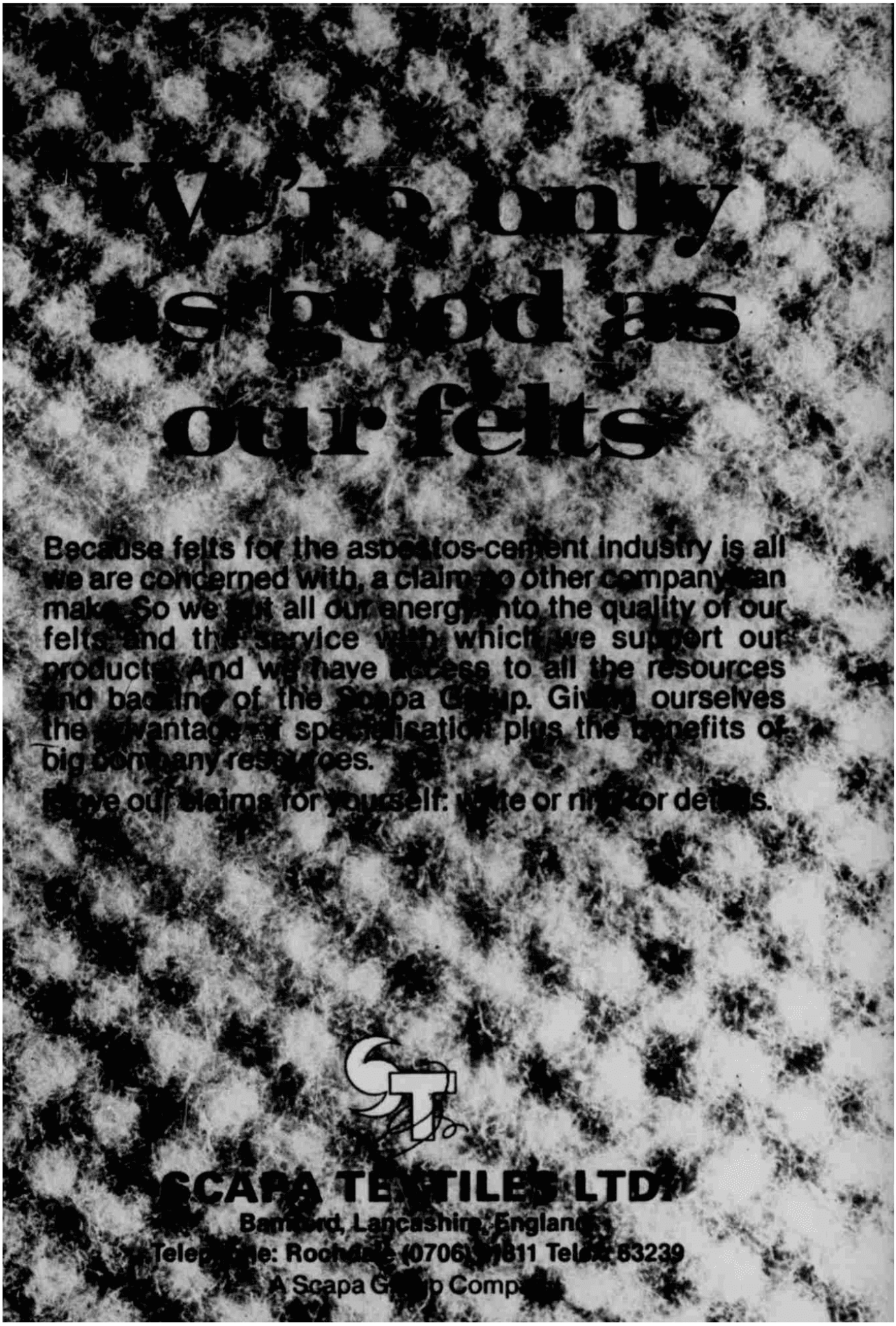
DURAFAB PROTECTIVE WEAR

Durafab Inc., Cleburne, Texas, advises its protective garments are a reliable and effective means of protecting workers against the hazards of exposure to asbestos and other environmental contaminants. Made of Tyvek, a spun-bonded olefin from DuPont, Durafab clothing has a Frazier air permeability of less than one. This factor is reduced to .0 when a special polyethylene coating is added for resistance to moisture and vaporous chemicals. The garments are tear-resistant and create the lint-free protection needed when handling products where foreign particles make the difference in quality. They are unaffected by acids, acrylic lacquers and most chemicals and can be thrown away or washed and reused.

GLENDALE RESPIRATOR APPROVED

The GR-500 DustBuster, a flame-retardant, disposable dust respirator from *Glendale Optical Co., Inc.*, Woodbury, New York, meets OSHA requirements and holds NIOSH/MSHA Approval No. TC-21C-195 for protection against pneumoconiosis and fibrosis-producing dust and mists, including asbestos. The respirator consists of a flat-folded cellulose filter with two elastic straps. It is light in weight, comfortable to wear and can be worn easily with safety goggles, face shields and protective hats. After use, it can be folded flat and conveniently carried in the user's pocket. Glendale Optical is a subsidiary of the American Cyanamid Company.

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ASBESTOS-RELATED MEDICAL PAPERS

PHOTOCOPIES OF MOST OF THE FOLLOWING PAPERS ARE AVAILABLE FROM ASBESTOS MAGAZINE @20¢ PER PAGE. PLEASE INCLUDE REMITTANCE WITH ORDER AND SPECIFY OCTOBER 1979 AS DATE OF LISTING. ALL CHECKS MUST BE ISSUED IN U.S. FUNDS ON A U.S. BANK.

SOME OBSERVATIONS ON ASBESTOS FIBERS AND VARIOUS MINERAL FORMATIONS FOUND IN THE LUNGS OF ASBESTOS WORKERS—Written in French; by L. le Bouffant, S. Bruyere, J. C. Martin, G. Tichoux and C. Normand; French Journal of Respiratory Ailments, Supp. 2 to Vol. 4, 1976, pages 121-40. [Contact: Head of Documentation and Information Office, Laboratoire du Centre d'Etudes et Recherches des Charbonnages de France, B. P. No. 2, Verneuil-en-Halatte, France]

*ULTRASTRUCTURE OF THE LUNG IN THE RAT FOLLOWING EXPOSURE TO CROCIDOLITE ASBESTOS AND QUARTZ—By K. Miller, I. Webster, R. I. M. Handfield and M. I. Skikne; J. Path., Vol. 124, 1978. [11 pages]

*CANCER RELATED TO ASBESTOS EXPOSURE: IMMUNOLOGICIAL STUDIES OF PATIENTS AT RISK—By E. Kagan, A. Solomon, J. C. Cochrane, E. I. Beissner, J.Gluckman, P. Kuba and I. Webster. [14 pages]

*THE ACTIVITIES OF THE SOUTH AFRICAN COMMITTEE ON CUMULATIVE DUST EXPOSURE RECORDS—The committee was formed to consider the practicability of introducing dust exposure records with a view to finding whether or not there was an exposure-response relationship between dust and asbestosis; the occupational histories of about 2,200 persons exposed to asbestos dust have been processed and the dust exposure of each person estimated; the study is to be continued as a prospective one. [7 pages]

*MESOTHELIOMA IN RELATION TO ASBESTOS FIBRE EXPOSURE—A review of 70 serial cases; by J. C. Cochrane and I. Webster; S.A. Medical Journal, Vol. 54, August 12, 1978, pages 279-281. [3 pages]

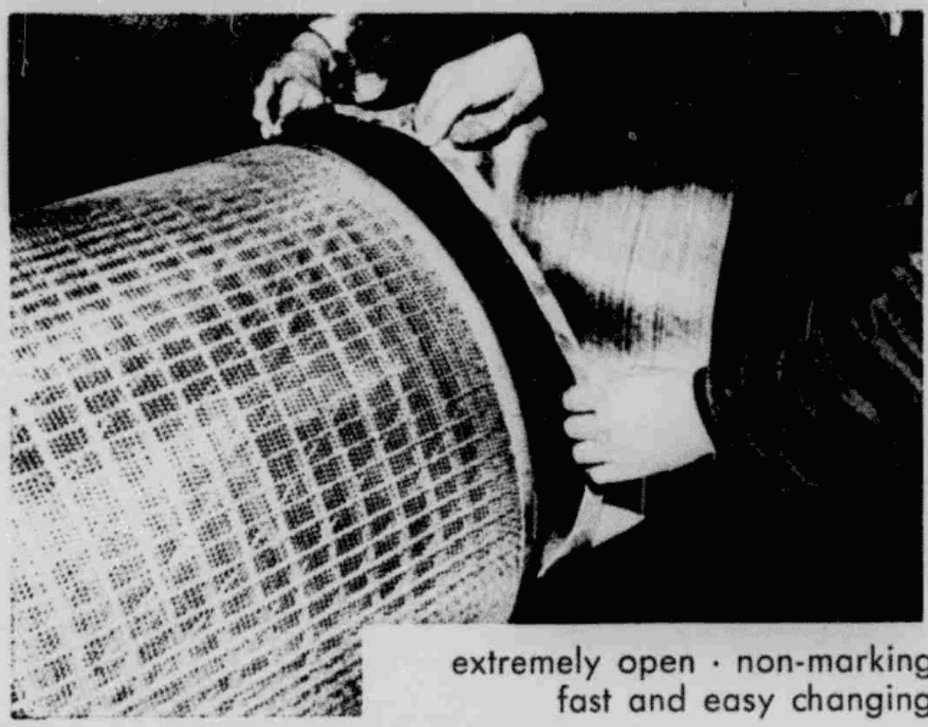
*THE EFFECT OF ASBESTOS-ASSOCIATED METAL IONS ON THE BINDING OF BENZO(A)PYRENE TO MACROMOLECULES IN VITRO—By R. Thomson, T. A. Kilroe-Smith and I. Webster; this work was included in a thesis by Ms. Thomson, accepted by the University of St. Andrews, Scotland, for the degree of Master of Science; Environmental Research 15, 1978, pages 309-319. [11 pages]

*LOSS OF METALLIC IONS FROM ASBESTOS FIBRES IN LUNG TISSUE—By M. I. Skikne, R. E. G. Rendall and I. Webster; from Proceedings, Volume 8, Electron Microscopy Society of Southern Africa. [2 pages]

*NATIONAL RESEARCH INSTITUTE FOR OCCUPATIONAL DISEASES OF THE SOUTH AFRICAN MEDICAL RESEARCH COUNCIL, JOHANNESBURG, REPUBLIC OF SOUTH AFRICA.

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MARKET CONDITIONS

GENERAL BUSINESS

Overshadowing all other business news in early October were the strong actions taken by the Federal Reserve Board to intensify its battle against inflation.

The first step, an extension of previous policies, increased the discount rate from 11 to 12 percent, a new all-time high. This directly increases the interest rates banks must pay on their borrowings from the FRB.

The second step increased to 8 percent the reserve requirements for certain liabilities of member banks and some other institutions thus limiting the total of funds on which their lending capabilities are based.

Third, the Board announced a major change in tactics for constraining the growth of the money supply. Previously, efforts to control the money supply were concentrated on manipulation of interest rates. The newly adopted policy will attempt to limit growth of the money supply by directly controlling reserves which, in turn, limit the lending power of banks.

The stringency of these measures and the change in emphasis of policy came as a surprise to the financial community and the shocks are still reverberating throughout the system as bankers, businessmen, investors and consumers attempt to adjust to the new conditions. In the first reaction to the announcements, stock and bond markets suffered severe losses as a result of near-panic selling and precious metals and many commodities sold off sharply. At most banks, the prime rate immediately jumped to an historic high of 14½% and numerous sources of consumer and business loans indicated they would be much more selective in granting credit at the higher rates dictated by the changes in the money market.

While the impact of these moves on the economy will take some time to be fully felt, it is obvious that some companies will sustain an almost immediate drop in profits and consumer confidence may be badly shaken just at the start of the Christmas season. Many economists now anticipate a much more severe and prolonged recession than they previously envisioned.

Despite the gloomier forecasts for the immediate future, there seems to be a feeling of relief that the U.S. is finally coming to grips with an inflation problem which was getting completely out of hand and which called for strong medicine. Whether the Administration and the Congress will have the courage to adhere to this austere course as the 1980 elections come into closer focus remains to be seen.

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In any event, there is now little room for doubt that there will be a pronounced slowing in the economy over the coming months and chances of the recession being extended well into 1980 have been substantially increased.

ASBESTOS FIBER

According to unofficial figures, Canadian shipments of asbestos for the first half of 1979—780,800 short tons vs. 701,500 tons for the same period in 1978—show a continued increase in demand over the previous year.

As already stated in prior reports, demand for Group 7 fibers continues to soften both domestically and overseas. Signs of a recession in the United States economy are showing indications of a general slackening in demand for all grades of asbestos in the U.S.

The international market remains steady, particularly in asbestos cement grades, as demand for building materials in developing economies maintains its level of activity.

POLYREZ COMPANY, INC.



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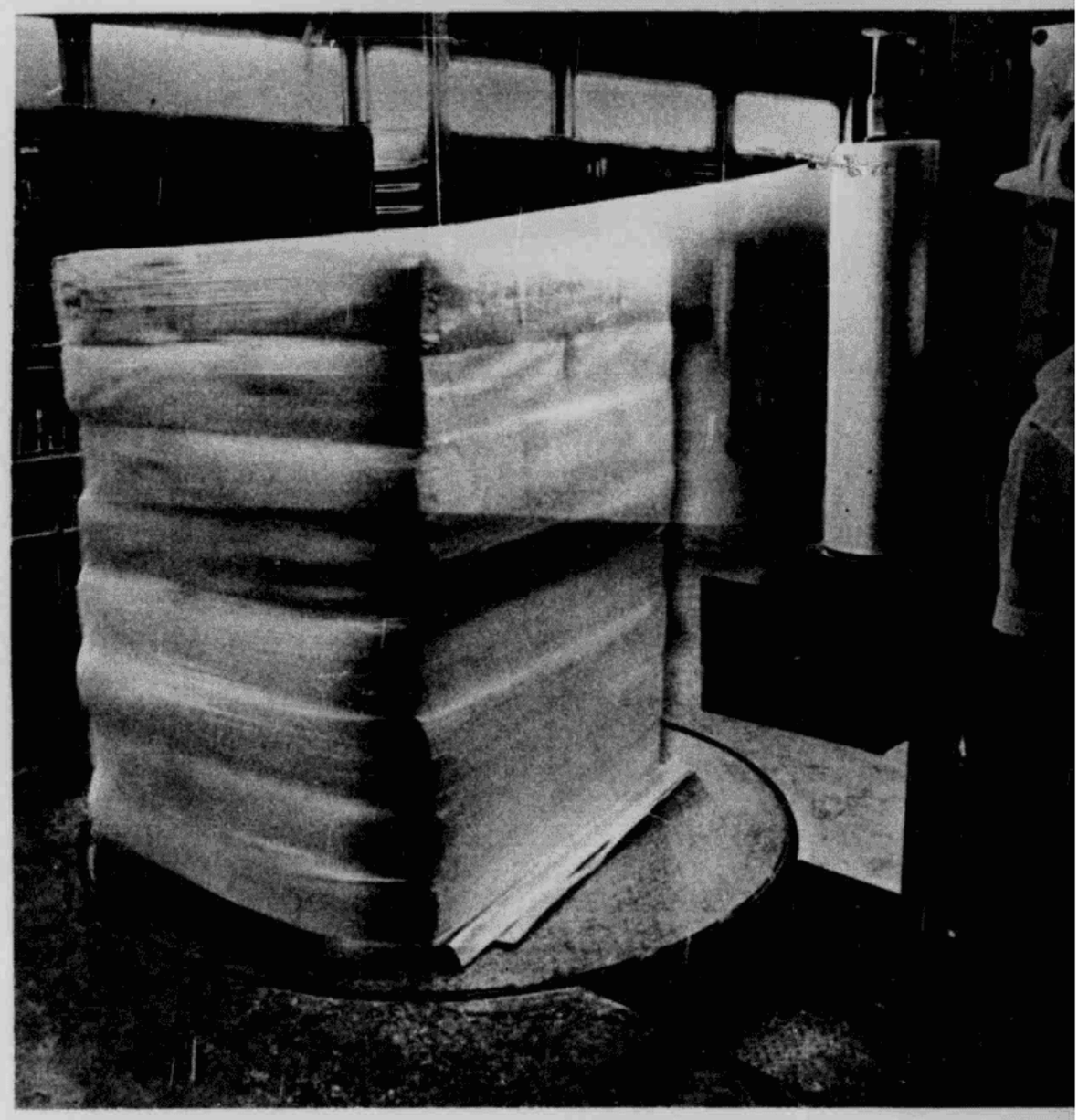
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S. Columbia St., Woodbury, N. J. 08096

Telephone: 609-845-1813

POLYREZ is the registered trademark of
Polyrez Company, Inc.

Stretch protects against and related



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wrapping broken bags dust problems.



Lac d'Amiante du Québec, Ltée now supplies two-ton units of asbestos fiber consisting of forty 100-lb. bags completely stretch wrapped in a tough polyethylene film. This protective wrapping virtually eliminates bag damage:

- During car loading and unloading.
- During transit.
- In storage and in-plant handling.

Stretch wrapping is your best assurance that shipments will arrive damage and dust free. It also reduces unloading expense and helps control dust problems in your operation. It's available for a very nominal charge.

Stretch wrapping is evidence of LAQ's concern for its customers and the environment. For details contact Lac d'Amiante du Québec, Ltée, P.O. Box 608, Black Lake, Quebec, Canada. Tel.: 418-423-4221. Or call a representative near you.

LAQ

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PRODUCTION—IMPORTS—EXPORTS

IMPORTS INTO THE UNITED STATES

From: U.S. Bureau of the Census

		JUNE 1979	
UNMANUFACTURED ASBESTOS:			
Amosite, Canada	s.tons	21	$ 2,130
Crocidolite (Blue), Namibia	s.tons	230	142,819
Republic of South Africa	s.tons	2,255	1,358,748
Chrysotile Crudes, Italy	s.tons	18	4,356
Chrysotile Spinning Fibers, Canada	s.tons	1,007	850,106
Chrysotile, Other, Canada	s.tons	41,617	8,293,756
Mexico	s.tons	3	645
Republic of South Africa	s.tons	407	249,934
Other Crudes & Fibers, Canada	s.tons	823	184,762
Republic of South Africa	s.tons	1	565
		46,382	$11,087,821
MANUFACTURED ASBESTOS PRODUCTS:			
Asbestos yarn, cloth, tape, etc.	Lb	812,745	$ 1,292,138
A-C pipes, tubes & fittngs	Lb	1,920,068	357,283
Other asbestos-cement articles	Lb	3,350,794	638,907
Other asbestos articles		..	711,410
			$ 2,999,738

		JANUARY-JUNE 1979	
UNMANUFACTURED ASBESTOS:			
Amosite, Canada	s.tons	81	$ 6,469
Republic of South Africa	s.tons	348	176,245
Crocidolite (Blue), Canada	s.tons	49	17,688
Namibia	s.tons	230	142,819
Republic of South Africa	s.tons	10,203	6,353,053
Chrysotile Crudes, Canada	s.tons	102	22,209
Italy	s.tons	18	4,356
Republic of South Africa	s.tons	403	254,336
Chrysotile Spinning Fibers, Canada	s.tons	5,157	4,026,833
Chrysotile, Other, Australia	s.tons	40	4,377
Canada	s.tons	290,720	62,580,734
Fed. Rep. of Germany	s.tons	12	7,271
Mexico	s.tons	9	1,749
Republic of South Africa	s.tons	1,320	784,600
Romania	s.tons	22	3,666
United Kingdom	s.tons	22	3,763
Yemen	s.tons	22	8,397
Other Crudes & Fibers, Canada	s.tons	6,233	1,791,051
Fed. Rep. of Germany	s.tons	11	28,967
Italy	s.tons	17	3,630
India	s.tons	135	30,800
Mexico	s.tons	1	1,000
Republic of South Africa	s.tons	108	46,302
		315,263	$76,300,315

IMPORTS INTO THE U.S.—CONTINUED

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	4,793,149	$ 7,449,155
A-C pipes, tubes & fittings	Lb	15,411,130	2,301,916
Other asbestos-cement articles	Lb	17,062,161	3,274,633
Other asbestos articles		..	2,919,962
			$15,945,666

January-June 1978: U.S. imports of unmanufactured asbestos totaled 287,216 short tons, valued at $74,588,819; imports of manufactured asbestos products were valued at $16,480,905.

AUSTRALIAN IMPORTS & EXPORTS

Australia *imported* 29,442 metric tonnes of asbestos, valued at A$13,037,911 for the *Year Ended June 1979*, a decrease from the prior year of 47% in quantity and 50% in value. Breakdown by variety of asbestos for the latest annual period is: Chrysotile—19,948 tonnes valued at $8,934,186, down 20% in quantity and 26% in value; Amosite—8,692 tonnes valued at $3,724,252, down 48% in quantity and 53% in value; Other—802 tonnes valued at $379,473, down 94% in quantity and 94% in value. Total imports for previous years are: 1978—55,265 tonnes valued at $25,978,419; 1977—70,342 tonnes valued at $29,414,733; 1976—56,246 tonnes valued at $17,852,927; 1975—50,879 tonnes valued at $11,195,399. [Australian Bureau of Statistics]

CANADIAN FIBER SHIPMENTS

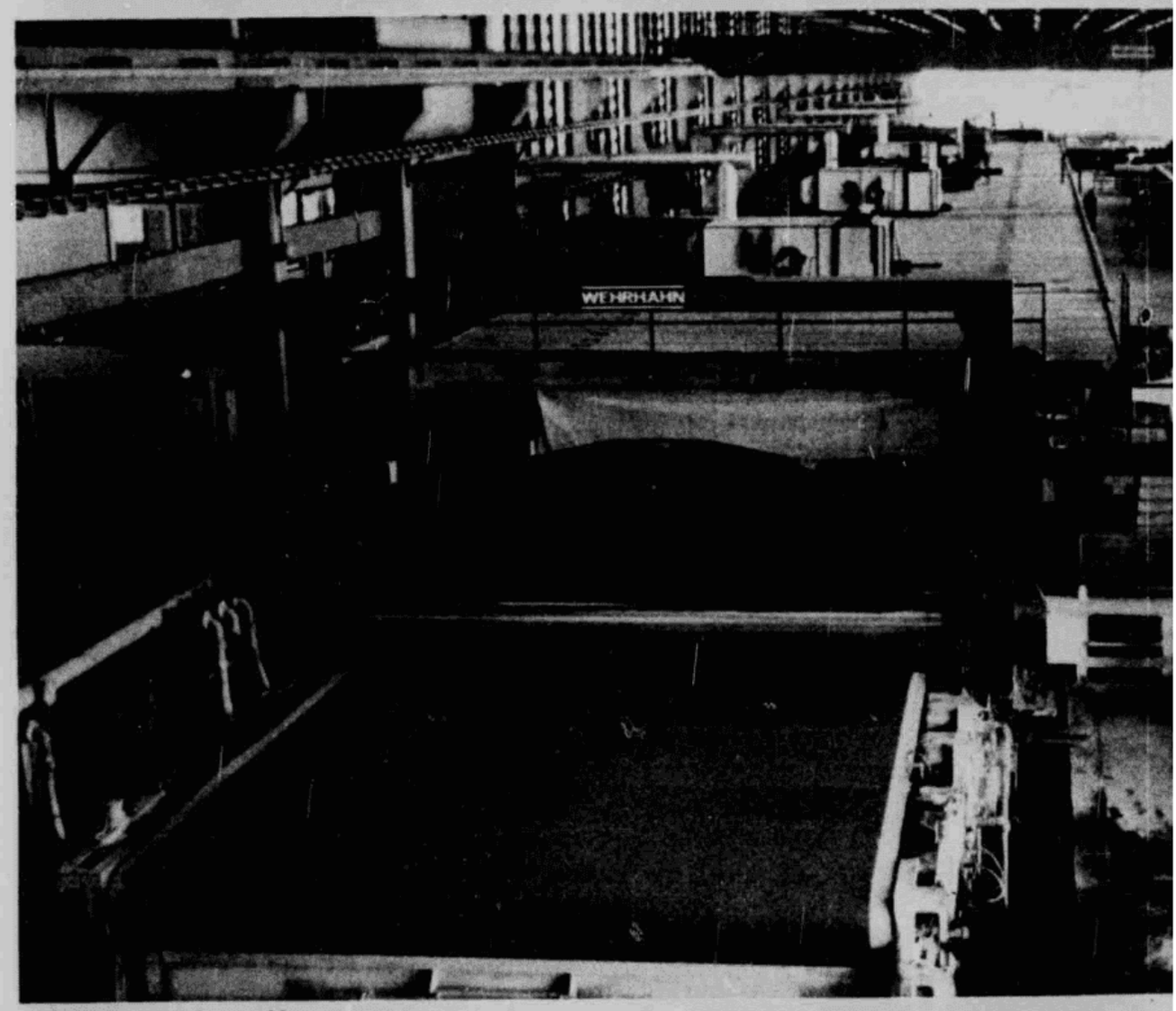
Primary Canadian Producers' shipments of asbestos (including tonnage for own use and concentrate shipped from Asbestos Hill) amounted to 96,813 metric tonnes in *July 1979* compared with 103,877 tonnes in the same month a year earlier. Cumulative total for *January-July 1979* is 812,516 tonnes: 719,968 tonnes from plants in Quebec and 92,548 tonnes from plants in Newfoundland, Ontario, British Columbia and the Yukon. Total shipments for the first seven months of 1978 were 805,891 tonnes: 670,775 tonnes from Quebec plants and 135,116 tonnes from plants in the other four Provinces. [Statistics Canada]

CANADIAN PRODUCT IMPORTS

Canada imported C$15,341,000 worth of asbestos-containing products in the *First Half of 1979* compared with $13,151,000 during the six months to June 1978 and $11,165,000 in the like 1977 period. Breakdown, by product category, for the latest half-year is: vinyl-asbestos floor and wall tiles—$223,000 (123,825 square yards; 103,534 square meters); asbestos cloth, dryer felts and sheets—$1,522,000; asbestos packings—$1,424,000 (821,494 pounds; 372,621 kilograms); asbestos brake linings—$4,380,000; asbestos clutch facings—$1,110,000; asbestos-cement shingles and siding—$5,000; asbestos-cement boards and sheets—$363,000; other asbestos building materials—$3,481,000; other basic asbestos products—$2,833,000. [Statistics Canada]

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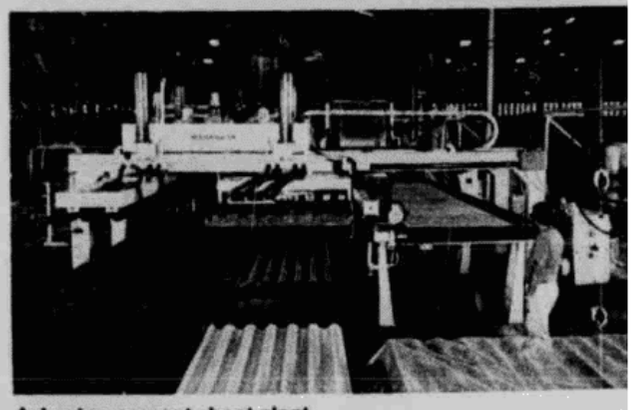
WEHRHA



Asbestos-cement pipe machine



Press section and mandrel retention system

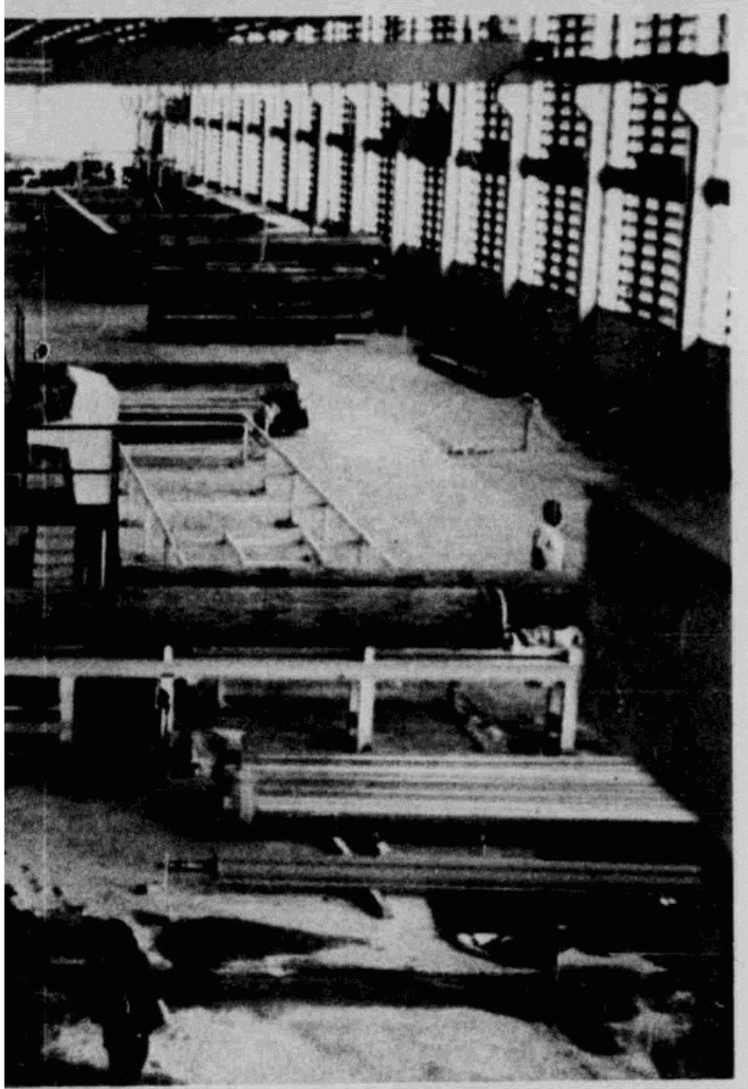


Asbestos-cement sheet plant

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In their almost 90 years of history, WEHRHAHN have built up more complete production lines than any other company in this field.

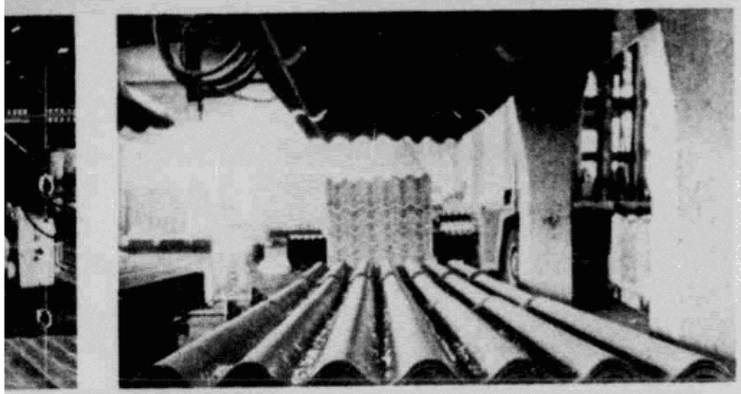
WEHRHAHN asbestos-cement specialists are at work around the world, engineering, building, and maintaining asbestos-cement plants. This is how WEHRHAHN equipment got their long spreading reputation for operational readiness and high value attention.

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ls for asbestos-cement machinery!

EXPORTS FROM THE UNITED STATES

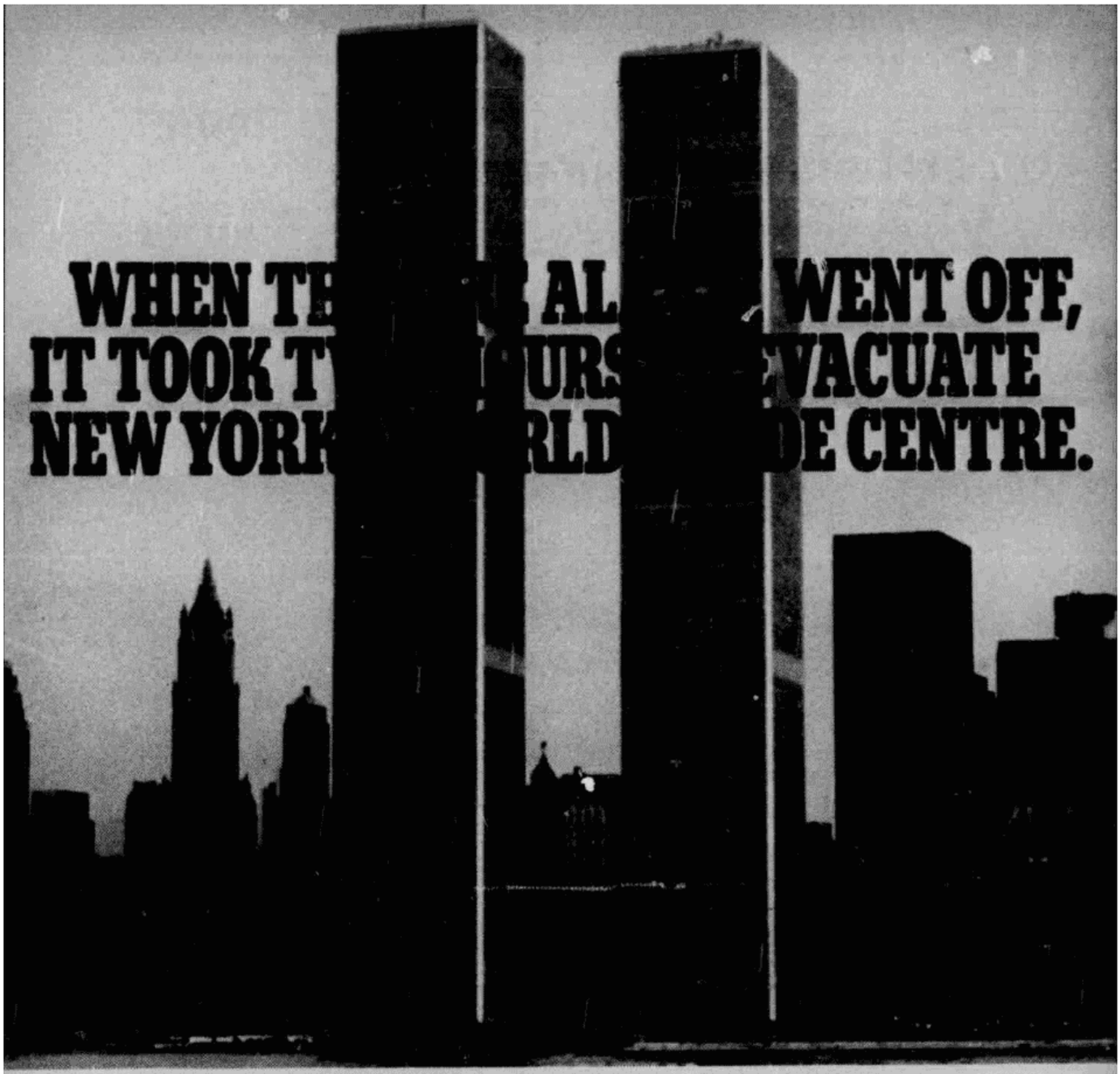
From: U.S. Bureau of the Census

			JUNE 1979
UNMANUFACTURED ASBESTOS:			
Asbestos crudes, fibers & stucco	s.tons	1,603	$ 853,980
Asbestos sand & refuse	s.tons	1,415	438,888
		3,018	$ 1,292,868
MANUFACTURED ASBESTOS PRODUCTS:			
Asbestos yarn, cloth, tape, etc.	Lb	418,283	$ 668,712
Asbestos-Cement shingles & clapboard	Lb	1,817,222	403,059
Other asbestos-cement articles	Lb	1,055,995	600,038
Asbestos gaskets	Lb	664,809	354,521
Asbestos packings & seals	Lb	351,670	932,558
Asbestos insulation		..	752,109
Brake linings & disc brake pads		..	5,956,900
Clutch facings & linings		..	681,419
Other asbestos articles		..	1,762,649
			$12,111,965

			JANUARY-JUNE 1979
UNMANUFACTURED ASBESTOS:			
Asbestos crudes, fibers & stucco	s.tons	13,757	$ 5,079,108
Asbestos sand & refuse	s.tons	5,304	1,754,981
		19,061	$ 6,834,089
MANUFACTURED ASBESTOS PRODUCTS:			
Asbestos yarn, cloth, tape, etc.	Lb	3,226,035	$ 3,548,279
Asbestos-Cement shingles & clapboard	Lb	10,710,523	2,496,125
Other asbestos-cement articles	Lb	22,673,539	7,534,733
Asbestos gaskets	Lb	8,493,944	2,799,890
Asbestos packings & seals	Lb	2,190,832	6,131,226
Asbestos insulation		..	2,591,986
Brake linings & disc brake pads		..	31,739,735
Clutch facings & linings		..	4,621,766
Other asbestos articles		..	10,910,299
			$72,374,039

January-June 1978: U.S. exports of unmanufactured asbestos reached 23,143 short tons, valued at $6,466,300; exports of manufactured asbestos products were valued at $59,624,374.

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The bigger the building, the more important fire-proofing becomes..

That's why today's buildings have asbestos-cement walls and even floors containing asbestos.

Asbestos contains fire, cannot burn and holds up after metal and glass have melted down, giving vital time for people to escape.

You'll also find asbestos sealing plumbing joints, insulating heating pipes, electric motors and emergency generators.

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

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When life depends on it, you use asbestos.

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Represented by:
Nissho-Iwai Co. Ltd., 4-5 Akasaka 2- Chome, Minato-Ku, Tokyo, 107, **JAPAN.**
Bookuk and Company Ltd., C.P.O. Box 1101, Seoul, **KOREA.**
Yah Sheng Chong Yung Kee Co. Ltd.,

EXPORTS FROM CANADA

From: Statistics Canada

MAY 1979

Short Tons

UNMANUFACTURED ASBESTOS:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	592	22,247	25,736
Eastern Europe	..	324	3,208	442
Middle East	..	..	853	95
Africa	..	..	1,770	400
Asia	..	497	14,252	13,604
Oceania	..	..	3,028	108
So. & Cen. America & Antilles	..	182	8,027	5,043
United States	..	386	12,012	44,873
	..	1,981	65,397	90,301

The total amount of unmanufactured asbestos exported in *May 1979* was 157,679 short tons, valued at C$58,193,000.

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos cloth, dryer felts & sheets	C$ 413,000
Asbestos brake linings & facings	113,000
Asbestos-Cement building materials	1,115,000
Other basic asbestos products	819,000
	C$2,460,000

JANUARY-MAY 1979

UNMANUFACTURED ASBESTOS:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	3,686	86,002	76,365
Eastern Europe	..	1,879	14,852	871
Middle East	..	88	2,954	432
Africa	..	..	3,587	1,125
Asia	..	2,047	53,271	52,800
Oceania	..	..	10,649	585
So. & Cen. America & Antilles	..	1,022	36,674	26,643
United States	22	3,290	57,197	214,698
	22	12,012	265,186	373,519

The total amount of unmanufactured asbestos exported in *January-May 1979* was 650,739 short tons, valued at C$238,085,000.

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos cloth, dryer felts & sheets	C$ 2,373,000
Asbestos brake linings & facings	1,444,000
Asbestos-Cement building materials	5,391,000
Other basic asbestos products	3,386,000
	C$12,594,000

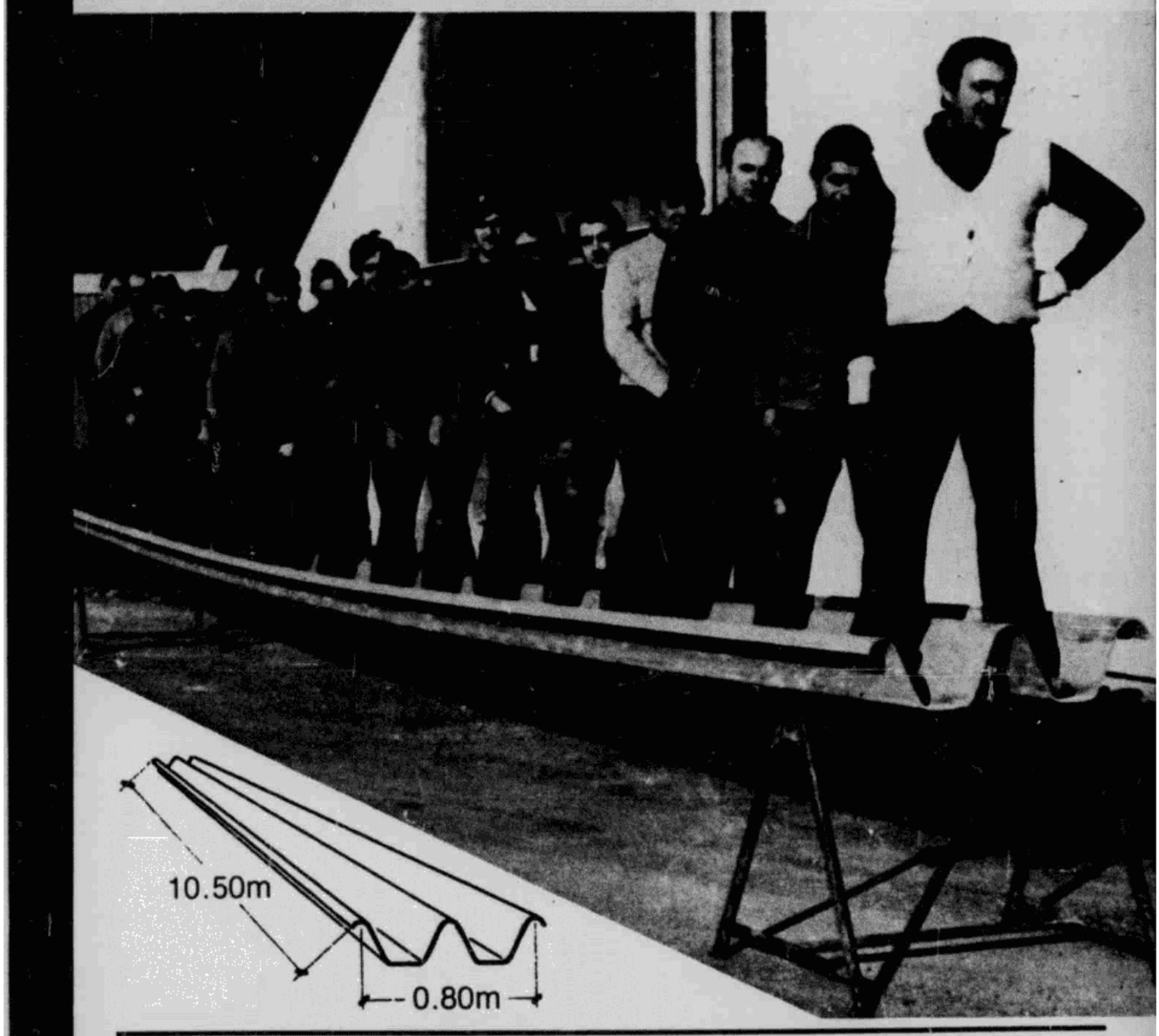
January-May 1978: Canadian exports of unmanufactured asbestos totaled 570,293 short tons (517,370 metric tonnes), valued at C$205,876,000; exports of manufactured asbestos products were valued at C$10,805,000.

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steel
+ asbestos
+ cement

NEW!

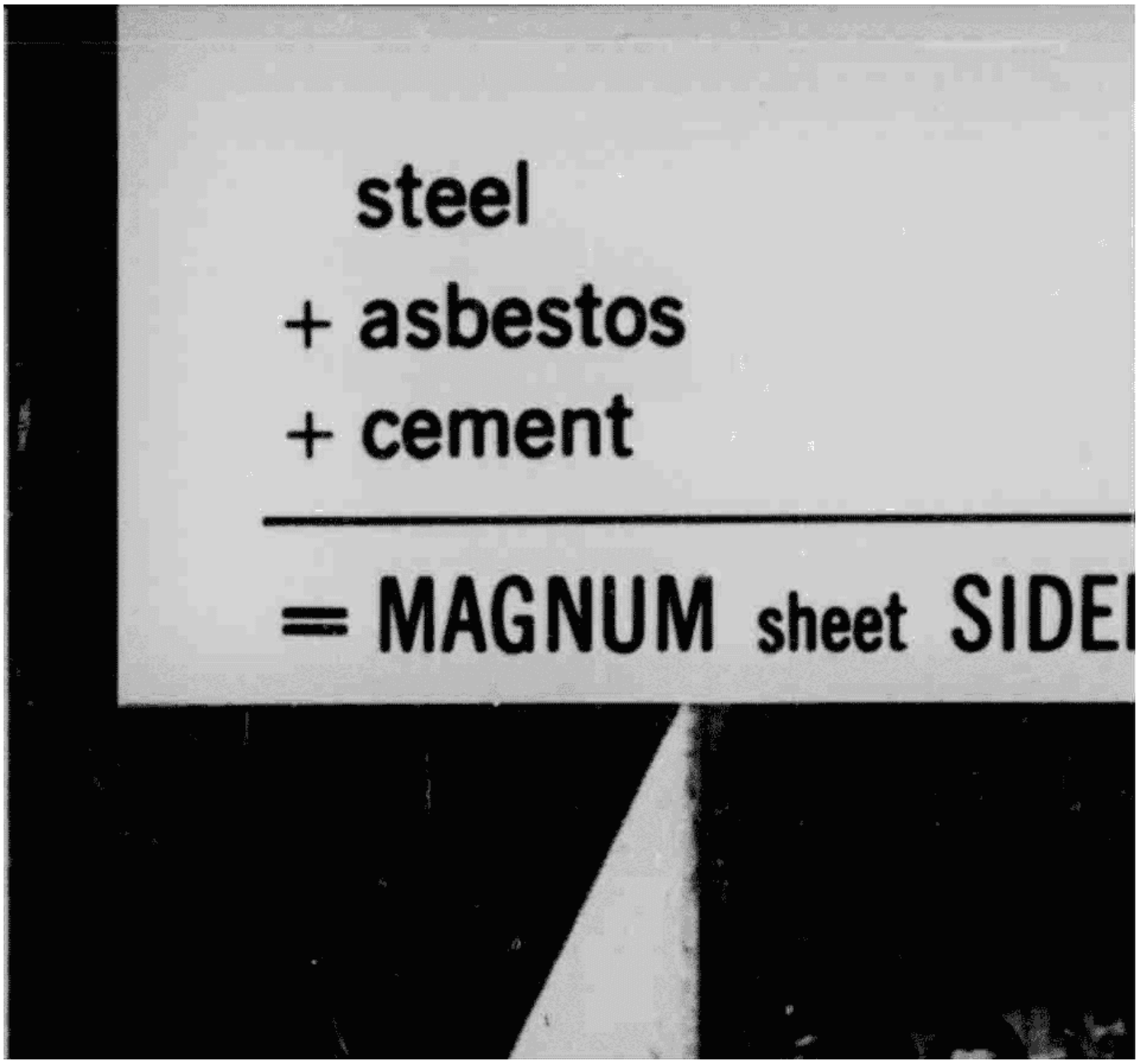
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JUNE 1979

UNMANUFACTURED ASBESTOS:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	1,021	25,292	14,449
Eastern Europe	..	205	6,180	..
Middle East	..	..	1,372	243
Africa	..	..	150	471
Asia	..	556	15,057	11,856
Oceania	..	5	3,011	169
So. & Cen. America & Antilles	..	157	9,704	7,330
United States	..	808	7,478	34,137
	..	2,752	68,244	68,655

The total amount of unmanufactured asbestos exported in *June 1979* was 139,651 short tons, valued at C$58,179,000.

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos cloth, dryer felts & sheets	C$ 515,000
Asbestos brake linings & facings	428,000
Asbestos-Cement building materials	1,328,000
Other basic asbestos products	697,000
	C$2,968,000

JANUARY-JUNE 1979

UNMANUFACTURED ASBESTOS:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	4,707	111,294	90,814
Eastern Europe	..	2,084	21,032	871
Middle East	..	88	4,326	675
Africa	..	..	3,737	1,596
Asia	..	2,603	68,328	64,656
Oceania	..	5	13,660	754
So. & Cen. America & Antilles	..	1,179	46,378	33,973
United States	22	4,098	64,675	248,835
	22	14,764	333,430	442,174

The total amount of unmanufactured asbestos exported in *January-June 1979* was 790,390 short tons, valued at C$296,264,000.

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos cloth, dryer felts & sheets	C$ 2,888,000
Asbestos brake linings & facings	1,872,000
Asbestos-Cement building materials	6,719,000
Other basic asbestos products	4,083,000
	C$15,562,000

January-June 1978: Canadian exports of unmanufactured asbestos totaled 700,471 short tons (635,467 metric tonnes), valued at C$258,908,000; exports of manufactured asbestos products were valued at C$12,540,000.

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CURRENT ASBESTOS PRICES

QUOTED FROM COMPANY PRICE LISTS

QUEBEC

As of July 1, 1979

Per Ton of 2000 Lbs., F.O.B. Mine
Canadian Dollars

No. 2 Crude	$2295
No. 3 Spinning Fiber	$1023—$1606
No. 4 Asbestos Cement Fiber	687— 1011
No. 5 Paper Fiber	388— 580
No. 6 Paper and Shingle Fiber	330— 352
No. 7 Shorts	113— 218

CASSIAR

As of January 1, 1979

Per Ton of 2000 Lbs., F.O.B. North Vancouver, B.C.
Canadian Dollars

Cassiar Mine

C-1	—No. 1 Crude	$3621
AAA	—Nonferrous Spinning Fiber; Canadian Group 3	2000
AA	—Nonferrous Spinning Fiber; Canadian Group 3	1600
A	—Nonferrous Spinning Fiber; Canadian Group 3	1050
AC	—Nonferrous Spinning Fiber; Canadian Group 3	960
AK	—Asbestos Cement Fiber; Canadian Group 4	850
AS	—Asbestos Cement Fiber; Canadian Group 4	740
AX	—Asbestos Cement Fiber; Canadian Group 4	670
AY	—Asbestos Cement Fiber; Canadian Group 5	470
AZ	—Asbestos Cement Fiber; Canadian Group 6	340

Clinton Mine

CT	—Asbestos Cement Fiber; Canadian Group 4	$ 680
CY	—Asbestos Cement Fiber; Canadian Group 5	470
CZ	—Asbestos Cement Fiber; Canadian Group 6	340

VERMONT

As of January 1, 1979

Per Ton of 2000 Lbs., F.O.B. Morrisville, Vermont
U.S. Dollars

Grade 4T Fiber	$ 591
Grade 5K Fiber	457
Grade 5R Fiber	388
Grade 6D Waste	284
Grade 7D Shorts	188
Grade 7M Shorts	108
Grade 7R Shorts	100
Hooker No. 1	1250
Hooker No. 2	700

ARIZONA

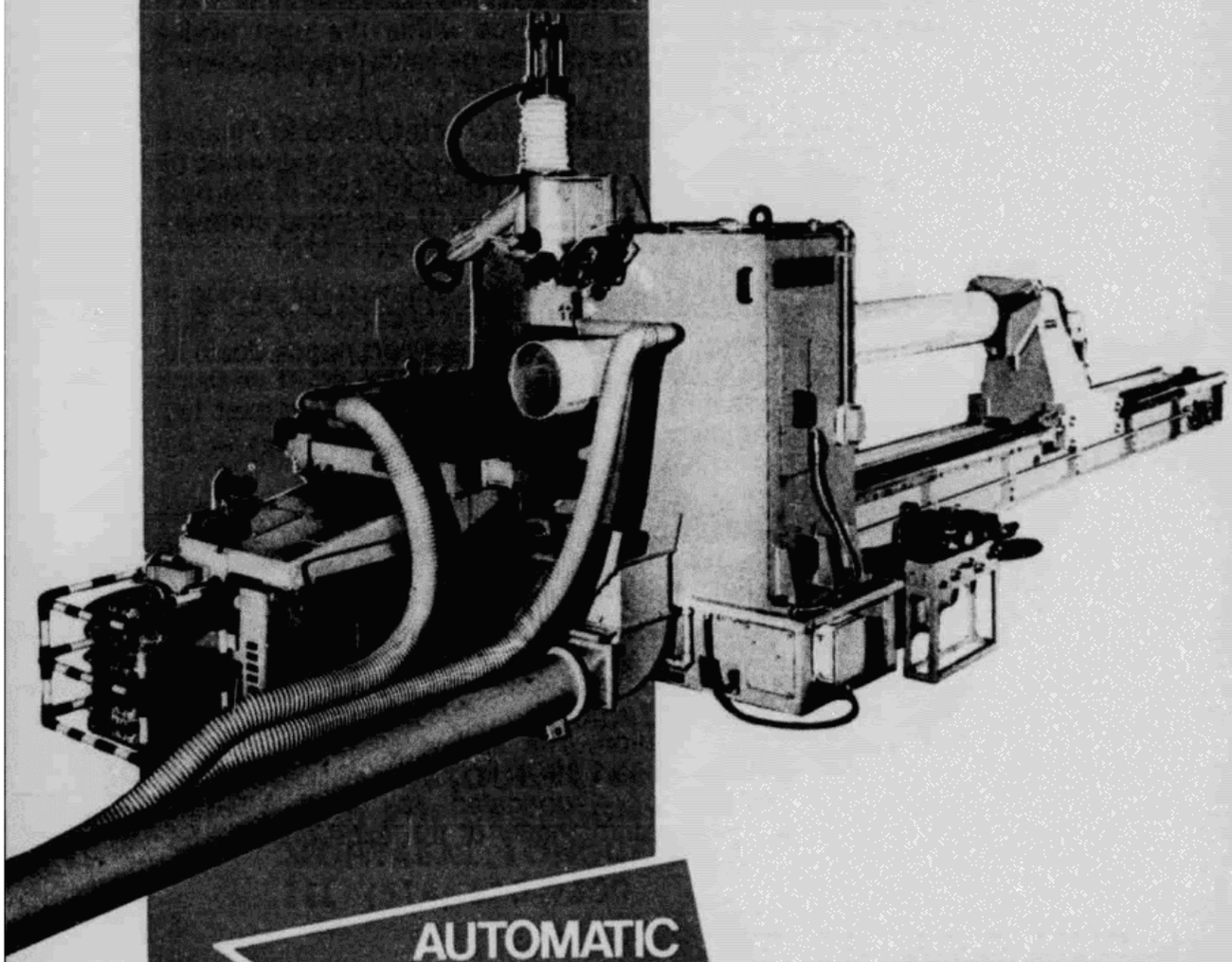
As of July 1, 1976

Per Ton of 2000 Lbs., F.O.B. Globe, Arizona
U.S. Dollars

No. 1 Crude (Soft)	$3000
No. 2 Crude (Soft)	1800
AAA	1300
Group No. 3 Nonferrous Filtering—Plastic	$ 750— 840
Group No. 4 Nonferrous Filtering—Plastic	750— 840
Group No. 7 White Shorts	100— 200

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THE ASBESTOS MINING SCENE

ASBESTOS REJECTS QUEBEC OFFER

On September 21, 1979, the *Quebec Provincial Government* offered C$42.00 per share, or about $65-million, to *General Dynamics Corporation* for its 54.6% holding in *Asbestos Corporation Ltd.* The offer expired October 4. Calling the proposal "unrealistic and unfair," the Directors of General Dynamics, as expected, resoundingly rejected the offer. GD had repeatedly said that a more realistic price was $99.75 a share. However, In an interview on October 4, Guy W. Fiske, Executive Vice President of GD and Chairman of Asbestos Corporation, indicated that $99.75 was too low and that the valuation will be adjusted upward. Studies had been made by Quebec and GD, but neither had projected price increases until 1981. Mr. Fiske observed that the price of asbestos within the past twelve months has increased some 35%. In addition, he said the subsidiary's profits "have been better than expected this year."

Discussing the differences in the "per-share" offer, Quebec Finance Minister Jacques Parizeau said two-thirds of the gap could be explained by GD's claim that asbestos prices will rise faster than inflation in the next twenty years. He said GD was offered a guarantee of additional compensation if its predictions proved accurate.

Mr. Parizeau advised the Parti Quebecois government "is setting in motion the expropriation mechanism: following the rejection by GD. But, he said, no move would be made until the Supreme Court hands down its decision on Bill 101, Quebec's language law. A negative court decision could invalidate all Quebec laws passed only in French in the past two years, including the law empowering a government corporation to expropriate Asbestos Corporation.

Early in September, the Provincial Government charged that GD has caused "unjustifiable" delays in reaching a settlement toward Quebec acquiring GD's holding in Asbestos Corporation. The Quebec National Assembly passed a law last June authorizing it to expropriate the corporation's $105-million Quebec assets. It also set up a state-owned company, Societe Nationale d'Amiante, to take over all or part of Asbestos Corporation's assets. Asbestos Corporation has appealed a Superior Court ruling that turned down its application for a permanent injunction against the government's threatened expropriation. The appeal is to be heard in Quebec the end of this month. In January 1980, in Quebec Superior Court, Chief Justice Jules Deschenes is scheduled to hear Asbestos Corporation's challenge of the constitutionality of the expropriation legislation.

WOODSREEF PLANS FOR 1980

Woodsreef Mines Ltd. announced that its wholly-owned subsidiary, *Chrysotile Corporation of Australia Pty. Ltd.*, will be increasing prices for asbestos produced at the Barraba Mine between 12% and 17%, effective January 1, 1980. The company reported that recent market research indicates strong demand for all asbestos-cement grades of fiber in 1980 and

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beyond, and that demand is especially strong in South East Asia where a number of new asbestos-cement plants are coming on stream.

In accordance with the financing agreement between Woodsreef Mines and *Woodsreef Minerals Ltd.*, the parent company in Toronto, it has been decided to proceed with construction of the wet process prototype mill. The mill will be located close to the existing mill at Barraba and will be capable of producing 1½ metric tonnes of wet fiber each day. Equipment is to be ordered next month and the facility is scheduled to begin operating in February 1980. Production will be shipped to major asbestos-cement producers for testing. Also, negotiations are now underway toward bringing in a major asbestos mining company as a partner in the wet process venture.

MIDLOTHIAN REOPENING NOT IMMINENT

Speaking before shareholders at the annual meeting of *United Asbestos Inc.*, Chairman and Chief Executive Officer P. M. Malouf said the Midlothian Asbestos Mine will not be reopened in the near future. The facility is situated at Midlothian Township, some 40 miles south of Timmins, Northern Ontario. Mr. Malouf indicated that operations could not begin during the severe winter months and that time would be needed for employee training. Also, this Magazine recalls that the original plant was built to conform to then-existent government standards for the control of dust levels. Therefore, it is presumed that United Asbestos would have to make some rather extensive modifications to the mine to enable it to comply with current regulations. Concerning the $35-million refinancing loan (See September 1979 ASBESTOS, page 30), Mr. Malouf said that capital expenditures of up to $20-million may be permitted for the property at Midlothian.

WEST GERMANY SETS RESERVE

The *Government of West Germany* has decided to establish, on a contractual basis with industrial users, a permanent reserve of five strategic materials, i.e., blue asbestos, chromium, cobalt, manganese and vanadium. Government and the industries concerned agreed the reserve of these materials in the *strategic stockpile* should be increased to cover one year's requirements. Current levels are sufficient, on average, for four months. The cost of purchasing the additional materials is estimated at DM600-million. Financing is likely to take two to three years. [Mining Journal]

BRETBY MINE CLOSED

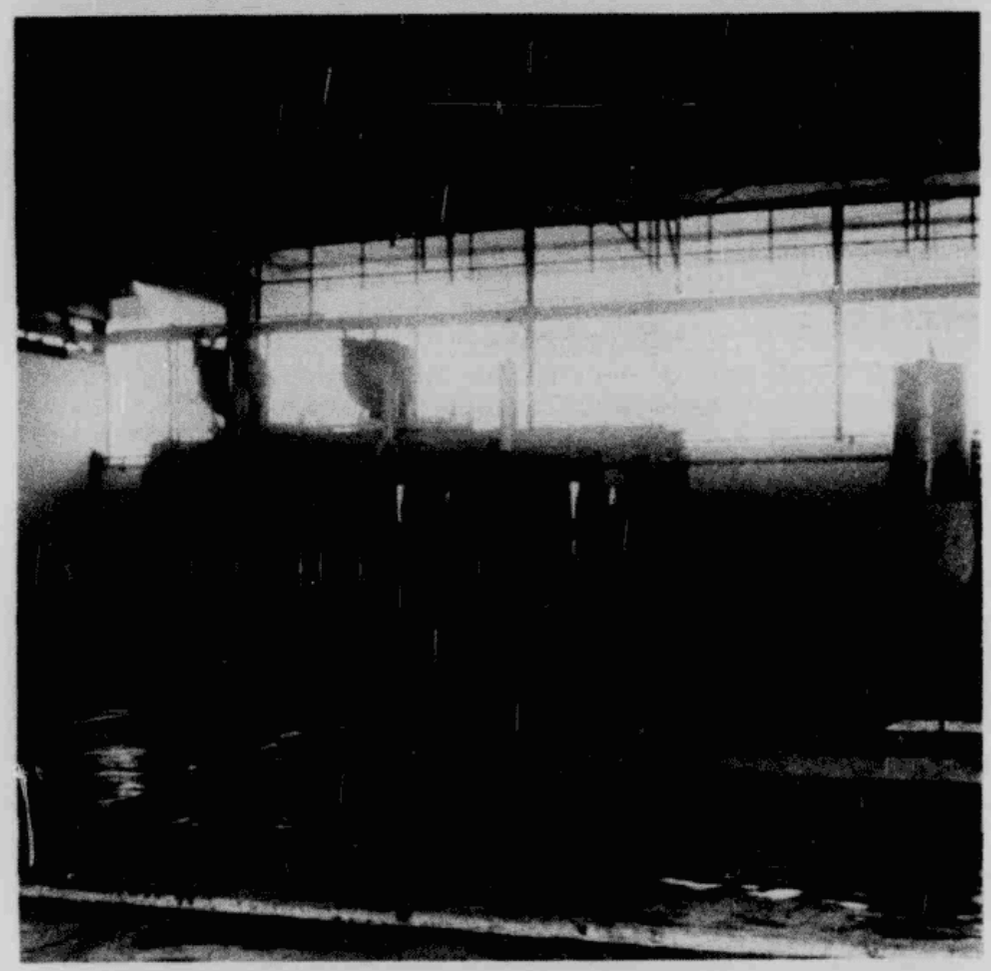
General Mining and Finance Corporation Ltd. has closed the Bretby Mine, Northern Cape, due to an over-supply of low-grade asbestos. Closure of the operation, which is one of five asbestos (Gefco Blue) mines run by *Griqualand Exploration and Finance Co. Ltd.*, reduces the General Mining subsidiary's output some 10%. About 10%, or 220 miners, have been laid off by the closedown. The remainder of the workforce has been transferred to Gefco's newer Elcor Mine. [Mining Magazine; Rhodesian Chamber of Mines Journal]

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HALF YEAR REPORTS—1979

ASARCO INC.

For the six months ended June 30, 1979, Asarco Inc. reported net earnings of $105.7-million or $3.46 per share, compared with a net loss of $8.9-million or 31¢ per share for the corresponding 1978 period. Sales for the 1979 half-year were $844.3-million, compared with $523.6-million in the like 1978 period. The increased earnings were due primarily to greater sales volumes of nonferrous metals at generally higher prices. Sales of molybdenum concentrates were particularly strong. Healthy markets for copper, lead and silver accounted for improved second quarter earnings of Asarco's affiliated companies in Australia, Mexico and Peru.

CAPE INDUSTRIES LTD.

Cape Industries Ltd. reported that Group turnover for the first six months of 1979 amounted to £102-million, compared with £86.5-million for the like period in 1978. Profit before tax was £6.2-million against £5.5-million. The Building and Insulation Division continued to show satisfactory results. Particularly notable was the increase in profit from cladding products and a further strong advance in insulation. The Automotive and Engineering Division found it more difficult to recover from an early disruption and results were below those of the previous year. . . . The half-year figures include the profits from the Mining Division to June 29, 1979, the date when the Division was sold to Transvaal Consolidated Land and Exploration Co. Ltd., South Africa. . . . In light of the U.K. government removing its restrictions on dividend payments and because the half-year results were satisfactory, Cape's Directors decided to increase the interim dividend 22% to 3.9 pence per share, payable January 2, 1980, to shareholders of record October 26, 1979.

CASSIAR ASBESTOS CORPORATION LTD.

Cassiar Asbestos Corporation Ltd. reported net earnings of $6.3-million or $1.15 per share for the six months ended June 30, 1979. This compares with net income of $8.3-million or $1.51 per share for the similar period in 1978. Revenues decreased from $44.6-million in 1978 to $42.6-million in the first six months of 1979.

CERTAINTEED CORPORATION

Citing a softness in the market for fiber glass insulation, CertainTeed Corporation reported sales and income for the first half of 1979 were substantially lower than for the same period a year earlier. First-half sales in 1979 were $421.9-million, on which profits of $6.7-million were realized. Comparable figures for 1978 were $439.5-million in sales and $29.2-million in net profit. . . . Other segments of the company's business showed favorable results in the second quarter, i.e., sales of roofing materials were strong, vinyl siding shipments set new records and piping products

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registered gains over the 1978 period. As pressures for energy conservation rise, the company expects a revival of strong demand for reinsulation products.

GAF CORPORATION

While sales of all of GAF Corporation's three worldwide Groups increased in the half-year ended July 1, 1979, and the Chemical Group's profitability rose, higher raw material costs reduced profits in the Building Materials and Photo & Repro Groups from the first-half 1978 figures. Sales for the 1979 half were $563-million versus $509-million in the same 1978 period. Profits for the same periods were $8.06-million against $11.1-million.

UNION CARBIDE CORPORATION

Union Carbide Corporation reported sales of $4,454.5-million for the first half of 1979 compared with $3,802.8-million for the first six months of 1978. Net income increased from $185.7-million to $275.1-million on a year-to-year basis. All of the company's industry segments contributed to the increased sales and profits although Metals and Carbon was outstanding with a sales gain of 27%, reflecting the worldwide increase in steelmaking during the period. In July, the Board of Directors voted to increase the quarterly common stock dividend from 70¢ to 75¢ per share.

ASBESTOS STOCK QUOTATIONS

Close—September 18, 1979

Abitibi Asbestos	C$.71	G&W (pfd 3.87)	75¼
Advocate Mines	C$2.30	IC Industries	29
Armstrong Cork	18	IC Ind (pfd 3.50)	44⅛
Armst Cork (pfd 3.75)	40½	Johns-Manville	25½
Asarco	24¾	J-M (pfd 5.40)	58¾
Asbestos Corporation	C$41.50	Kennecott Copper	26¾
Bendix	42	Lear Siegler	21½
Bendix (pfd 3)	87½	Lear Siegler (pfd 2.25)	54
Carlisle	25⅛	McAdam Mining	C$.36
Cassiar Asbestos	C$12.50	National Gypsum	21
CertainTeed	17¾	Pathfinder	C$.37
Charter Conso	pence 144	Porter, H. K. (pfd 5.50)	75⅝
Colt Industries	47¾	Raybestos-Manhattan	29⅞
Colt Ind (pfd 1.60)	39	Rio Algom	C$31.875
Colt Ind (pfd 4.25)	103½	Rio Algom (pfd 5.80)	C$78.50
Conwest	C$7.00	Supradur	Bid 5; Asked 5¾
Flintkote	47¼	Union Carbide	42⅞
F-kote (pfd-B 2.25)	66	United Asbestos	C$5.125
GAF Corporation	11	Walter, Jim	34⅝
GAF (pfd 1.20)	15⅝	Walter, Jim (pfd 1)	10¾
Gulf & Western	15½	Walter, Jim (pfd 1.60)	37
G&W (pfd 2.50)	34¾	Woodsreef Minerals	C$.475

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MEN ON THE MOVE

CAREY CANADA INC.

Vaughan H. Tower has joined Carey Canada Inc. as Export Sales Representative, with headquarters at East Broughton Station, Quebec. He has had considerable experience with asbestos fiber, having been Geologist, Technician and Sales Representative for Asbestos Corporation Ltd.

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

At its meeting in June 1979, the following gentlemen were elected officers of the Friction Materials Standards Institute, Inc., for the 1979-1980 fiscal year: President—*Ronald R. Moalli* of Raybestos International, Raybestos-Manhattan, Inc.; Vice President—*Ronald L. Cutler* of the Friction Products Group, Abex Corporation; Treasurer—*William F. Messier* of the Friction Materials Division, Bendix Corporation; and Secretary—*Edward W. Drislane* of FMSI.

CANADIAN INSTITUTE OF MINING AND METALLURGY

Michael J. Messel was presented with the Distinguished Service Award by the Canadian Institute of Mining and Metallurgy. He received the award at the Third Open-Pit Operators Conference "in recognition of his efforts over several years of service to the Quebec Asbestos Mining Association and the Institute that have contributed so greatly to the development of the mining industry in the Province of Quebec." Mr. Messel is President of Lac d'Amiante du Quebec Ltee and served several terms as President of QAMA.

SOUTHERN TEXTILE CORPORATION

Dan Wayne Grimmitt was named Secretary-Treasurer of Southern Textile Corporation, it was announced by *E. C. Bratt*, President. Mr. Grimmitt has several years of experience in management and cost accounting. His most recent position was Senior Cost Accountant with M. Lowenstein & Sons, Rock Hill, South Carolina. . . . *William S. Johnson III* was appointed Data Processing Manager for Southern Textile. He was formerly with Falk Fibers and Fabrics as a Systems Analyst.

TURNER & NEWALL LTD.

The Directors have announced that due to a recurrence of an earlier illness, *Patrick Griffith* has been obliged to tender his resignation as Chairman and from the Board of Turner & Newall Ltd. *Stephen Gibbs*, Deputy Chairman, was elected Chairman, effective immediately. . . . *Dr. D. Hatch* was appointed to the Board of Ferodo Ltd., a T&N subsidiary, as Director of Research and Development. . . . *Sir Jack Wellings*, CBE, was named a Non-Executive Director of Turner & Newall. He is Chairman and Chief Executive of The 600 Group Ltd. . . . *Peter M. Howlett* has resigned, for health reasons, from the board of Ferodo and from the boards of overseas Ferodo companies.

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BIRTHDAY GREETINGS to . . .

Miguel C. Leman, Sales Representative (Latin America), Asbestos Fiber Division, Johns-Manville Sales Corporation, Denver, Colorado, *November 16.*

J. J. Mangan, President and Managing Director, Hedman Mines Ltd., Timmins, Ontario, *November 16.*

Aldred J. Simmons, President, Standco Industries, Inc., Houston, Texas, *November 17.*

Jean Dupere, Executive Assistant to the President, Lac d'Amiante du Quebec Ltee, Black Lake, Quebec, *November 19.*

Gorden E. MacDonald, Vice Chairman, Asbestos Corporation Ltd., Groton, Connecticut, *November 19.*

Louis J. Melillo, Corporate Vice President of Research and a Director, Nicolet, Inc., Ambler, Pennsylvania, *November 19.*

Gilbert E. Schuessler, Corporate Controller, Raybestos-Manhattan, Inc., Trumbull, Connecticut, *November 21.*

T. T. Austin, Managing Director, Cape Scaffolding Ltd., Watford, Hertfordshire, England, *November 23.*

Ian Ford, Director and General Manager, Scapa Textiles Ltd., Rochdale, Lancashire, England, *November 25.*

John T. Gurash, Chairman, CertainTeed Corporation, Valley Forge, Pennsylvania, *November 25.*

J. K. Roberts, a Director, James Hardie Industries, Ltd., Sydney, New South Wales, Australia, *November 25.*

Dr. A. J. P. Sabberwal, Joint Managing Director, TAC Construction Materials Ltd., a subsidiary of Turner & Newall Ltd., Manchester, England, *November 25.*

D. Carlsen, Superintendent, Asbestos Wharf, Cassiar Asbestos Corporation Ltd., North Vancouver, British Columbia, *November 26.*

David P. Cortright, Vice President of Marketing, Norristown Division, Nicolet, Inc., Ambler, Pennsylvania, *November 27.*

Russell L. Pellett, a Director, Hedman Mines Ltd., Bethlehem, Pennsylvania, *November 27.*

R. A. Paine, Chairman, Cape Insulation (Ireland) Ltd. and Cape Insulation Services Ltd. and Deputy Chairman, Cape Insulation Ltd., Stirling, Scotland, *November 28.*

B. B. Stevenson, Finance Director and a Director, Cape Industries Ltd., London, England, *November 28.*

N. J. Blake, Managing Director, Blake & Clement Pty. Ltd., a subsidiary of BBA Group Ltd., Riverwood, New South Wales, Australia, *November 29.*

John G. Ordway, Jr., President, MacArthur Company, St. Paul, Minnesota, *November 29.*

Walter A. Cooper, Manager-Environmental Communications, Health, Safety and Environment Department, Johns-Manville Sales Corporation, Denver, Colorado, *November 30.*

Jules LaPrairie, Manager, Atlas Asbestos Company, Coalinga, California, *December 1.*

Robert J. Collier, Vice President and Director of Divisional Advertising, Johns-Manville Sales Corporation, Denver, Colorado, *December 3.*

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BIRTHDAY GREETINGS—CONTINUED

K. Fred Netter, President, Supradur Manufacturing Corporation, New York City, *December 3.*

James F. Reis, Market Manager, Pre-Engineered Building Systems, Johns-Manville Sales Corporation, Denver, Colorado, *December 3.*

Frank S. Williams, Product Manager, Southern Textile Corporation, Charlotte, North Carolina, *December 3.*

Irving F. Moore, President, Atlas Asbestos Company, Reno, Nevada, *December 7.*

Bernd Simon, Plant Engineer, Cement Asbestos Products Company, Van Buren, Arkansas, *December 7.*

Dr. Kevin Browne, Group Medical Adviser, Cape Industries Ltd., London, England, *December 8.*

F. A. Page, Deputy Chairman, James Hardie Industries Ltd., Sydney, New South Wales, Australia, *December 8.*

Germain Masson, Director of Purchasing, Bell Asbestos Mines Ltd., Thetford Mines, Quebec, *December 9.*

George W. Townsend, Vice President, Mechanical Packings Group, Garlock Inc., Palmyra, New York, *December 10.*

C. W. Newton, Managing Director, Turner & Newall Ltd., Manchester, England, *December 11.*

E. W. Shortridge, Asbestos Plant Manager, Union Carbide Corporation, Metals Division, Niagara Falls, New York, *December 12.*

Paul R. Clark, Production Superintendent, Cassiar Mine, Cassiar Asbestos Corporation Ltd., Cassiar, British Columbia, *December 13.*

Robert J. Clark, Civil Engineer, Cassiar Mine, Cassiar Asbestos Corporation Ltd., Cassiar, British Columbia, *December 13.*



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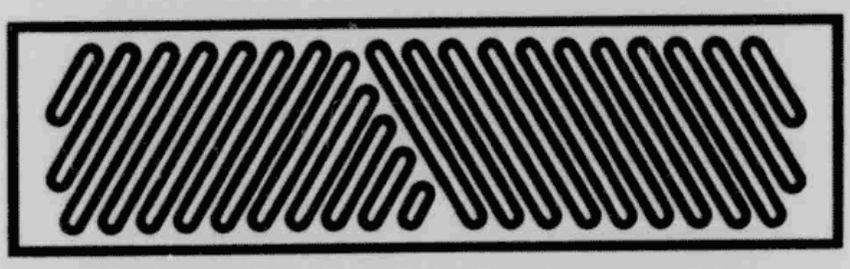
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INSULATION GUIDE FOR BUILDINGS AND INDUSTRIAL PROCESSES 1979—Energy Technology Review No. 43, edited by L. Y. Hess; assesses thermal insulation materials and systems for residential and industrial building applications, appraising building insulation as used for different purposes; explores the use by industrial plants and utilities of thermal insulation to conserve energy, protect personnel and maintain process temperatures; evaluates sources of information on heat transmission. [$24.00; 200 pages; Noyes Data Corporation]

FEDERAL MINERAL POLICIES, 1945 TO 1975—A survey of federal activities which affected the Canadian mineral industry, by M. J. Wojciechowski; discusses direct participation by the government in the mineral industry and government assistance to the industry. [$2.00; Working Paper No. 8; order direct from the Centre for Resource Studies, Queen's University, Kingston, Ontario, Canada]

MACHINERY NOISE CONTROL—Proceedings of NOISE-CON 79, the 1979 National Conference on Noise Control Engineering; includes papers on agricultural and construction equipment noise, forging and impact noise, noise of engines and components and noise generated by metal cutting; also covers government programs, diagnostic techniques for noise control, computer noise control and noise levels in factories. [$37.50 (plus $7.00 for airmail shipments overseas); 404 pages; order direct from the Institute of Noise Control Engineering, P.O. Box 3206, Arlington Branch, Poughkeepsie, New York 12603]

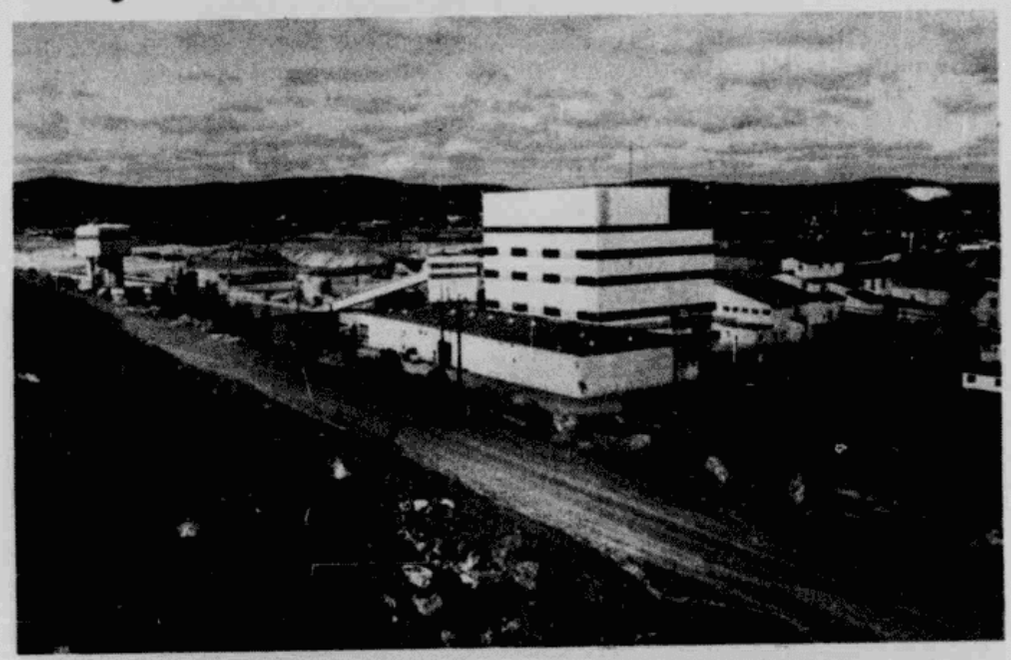
ASSESSING TOXIC EFFECTS OF ENVIRONMENTAL POLLUTANTS—Edited by S. D. Lee and J. Brian Mudd; describes biophysical and biochemical methods which may provide sensitive procedures for assessing toxicity as well as discovering the underlying mechanisms by which toxic chemicals act; many pollutants from many sources are examined, the effects of which range from perturbations of the cellular membrane of the cell to the study of mutagenicity and carcinogenicity; includes a discussion of the difficulties of assessing human toxicity on the basis of tests using laboratory animals. [$30.00; 306 pages; Ann Arbor Science Publishers, Inc.]

CANADIAN MINES HANDBOOK, 1979-1980—Reflects a much healthier industry, following a lengthy slump; places emphasis on expansion, exploration and development plans and notes the need to further encourage the grass roots search for new mines; discusses the close look being taken by the federal and provincial governments at crippling taxation policies; contains chapters on professional, mining and trade associations, Canadian mineral production and exports, Canadian mining companies, dividends and mining stock prices; Stock Exchange Commission

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Rates, Toronto Stock Exchange Indices and uses of major minerals. [$14.00 per paperbound copy; $17.00 per leatherette binding; 384 pages; Northern Miner Press Ltd.]

MODERN POLLUTION CONTROL TECHNOLOGY—Analyzes technical and economic feasibility of processes, equipment and plants; describes opportunities, requirements in the field and environmental standards; draws on the experience and research work of government, industry and universities; includes thorough reviews of the latest available data on pollution control techniques and equipment for industries, states and municipalities; is divided into three parts, i.e., air pollution control, water pollution control and solid wastes disposal; covers profit potentials where applicable. [$39.75; 2,080 pages in two volumes; Research and Education Association]

*COMPOSITE MATERIALS: TESTING AND DESIGN—A comprehensive re*view of the state-of-the-art and identification of new trends and applications in composites, edited by S. W. Tsai; its 38 papers cover applications, design and data, testing and evaluation, environmental effects, fatigue, physiochemical properties and mechanisms of failure. [$52.50; 697 pages; STP 674; American Society for Testing and Materials]

THE INSULATION HANDBOOK, 1979-1980—This twelfth edition contains revisions so extensive that the former edition has been rendered of little value; new items include the various methods of calculating U values, a review of international building regulations and incentives to promote improved thermal insulations in buildings, guidance on sound insulation and sound absorption and assistance in regard to fire protection ratings in contract specifications; discusses thermal insulation, noise and acoustics, vibration, solar energy, fire-retardant paints, refractory insulation materials and preinsulated ductwork. [$13.00; Comprint Ltd.]

1979 MINING ANNUAL REVIEW—Contains individual chapters on 60 metals, and minerals, 128 countries around the world and the London Metal Exchange; includes technical progress reports concerned with extractive metallurgy, mineral exploration and processing and open pit and underground mining. [$25.00; 624 pages; Mining Journal Books Ltd.]

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CALENDAR OF EVENTS

CENTER FOR PROFESSIONAL ADVANCEMENT—Coming Courses to be held at East Brunswick, New Jersey: Construction Law—*November 14-16;* Acoustical Noise Control Engineering—*November 14-16;* Automatic Weighing and Proportioning for Bulk Solids— *November 28-30;* Particulate Matter Monitoring Workshop—*November 28-30;* Powder Coatings Technology—*November 28-30.*

BASICS OF ANTIDUMPING AND OTHER IMPORT RELIEF LAWS COURSE—A multilateral Trade Negotiations update, presented by the Practising Law Institute; Los Angeles, California, *December 13-14.*

NATIONAL FIRE PROTECTION ASSOCIATION—1979 Fall Meeting; Phoenix, Arizona, *November 12-14.*

FIBERS, ELECTROSTATICS AND FILTRATION SYMPOSIUM—Cosponsored by The Fiber Society and The Filtration Society; Princeton, New Jersey, *November 14-15.*

HAZARDOUS WASTE MANAGEMENT AND DISPOSAL SYMPOSIUM—Sponsored by the Southern California Section, American Industrial Hygiene Association; Long Beach, California, *November 15.*

UNIVERSITY OF WISCONSIN—Extension Courses of the Department of Engineering, Madison, Wisconsin: Industrial Waste Institute covering toxic pollutant control and pretreatment standards—*November 26-27;* Pressure Sewer Systems—*November 26-27.*

STUVA CONFERENCE 1979—Organized by the Research Organization for Underground Traffic Facilities; will cover present new knowledge in the fields of underground construction and traffic technology; Munich, Federal Republic of Germany, *November 26-29.*

HAZARDOUS WASTE MANAGEMENT SEMINAR—Designed by Vanderbilt University to furnish an overall understanding of hazardous waste control and its application to comply with the Resource Conservation and Recovery Act; Nashville, Tennessee, *November 26-30.*

PUTTING THE ASBESTOS LEGISLATION INTO PRACTICE SEMINAR—Jointly organized by Oyez International Business Communications Ltd. and McCrone Research Institute Ltd.; London, England, *November 27.*

THE INSTITUTE FOR STATISTICALLY DESIGNED EXPERIMENTATION—Announced by the University of Connecticut and the American Society for Quality Control; Storrs, Connecticut, *December 2-7.*

38TH INTERNATIONAL BUILDING AND CONSTRUCTION EXHIBITION—Organized by the Andry Montgomery Group; Birmingham, England, *December 2-8.*

MULTILATERAL TRADE NEGOTIATIONS CONFERENCE—The first annual conference of Frost & Sullivan, Inc., on international trade; Washington, D. C., *December 4-6.*

OCCUPATIONAL HEALTH IN THE 1980'S CONFERENCE—Sponsored by the New York, New Jersey and Delaware Valley Sections of the American Industrial Hygiene Association, Philadelphia, Pennsylvania; *December 7.*

TOXICS CONTROL/WATER POLLUTION—Two environmental events presented by Government Institutes at Washington, D. C.: Toxics Control Conference—*December 10-11;* Water Pollution Seminar—*December 12.*

4TH INTERNATIONAL CONFERENCE ON ASBESTOS—Will cover economic geology, geology and mineralogy, chemistry and physics, mining, recovery and refining, industrial uses, quality control and environmental aspects; Torino, Italy, *May 26-30, 1980.*

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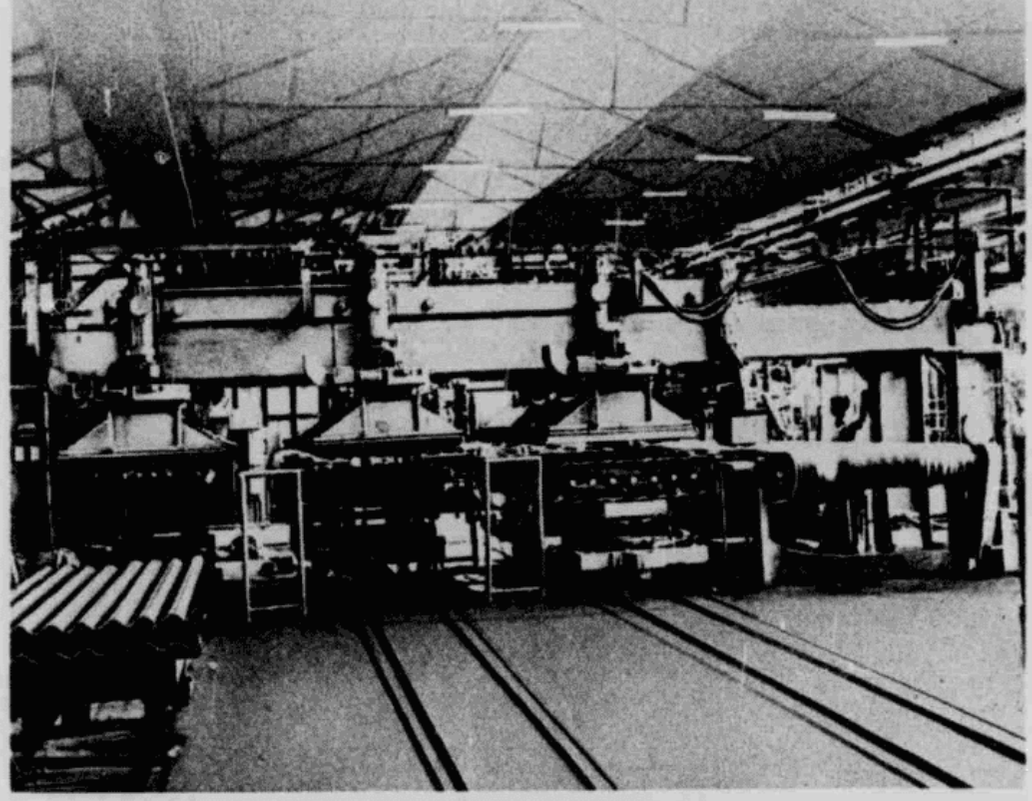
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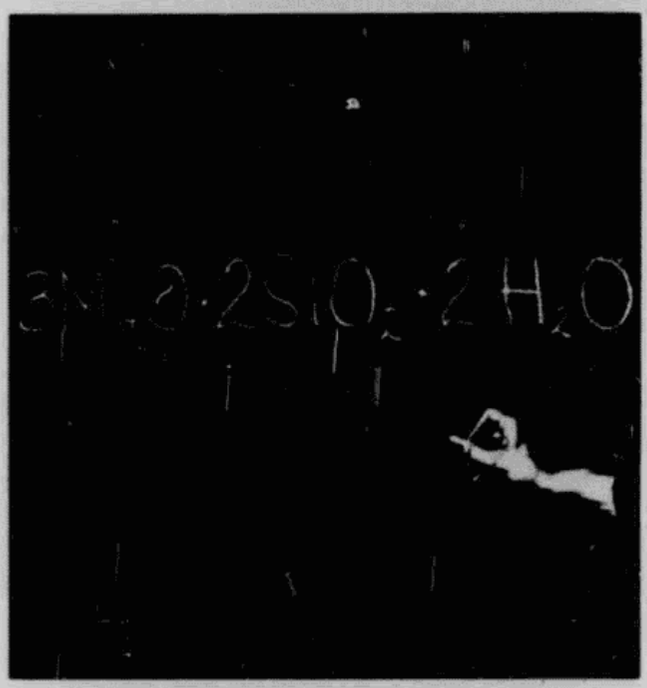
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