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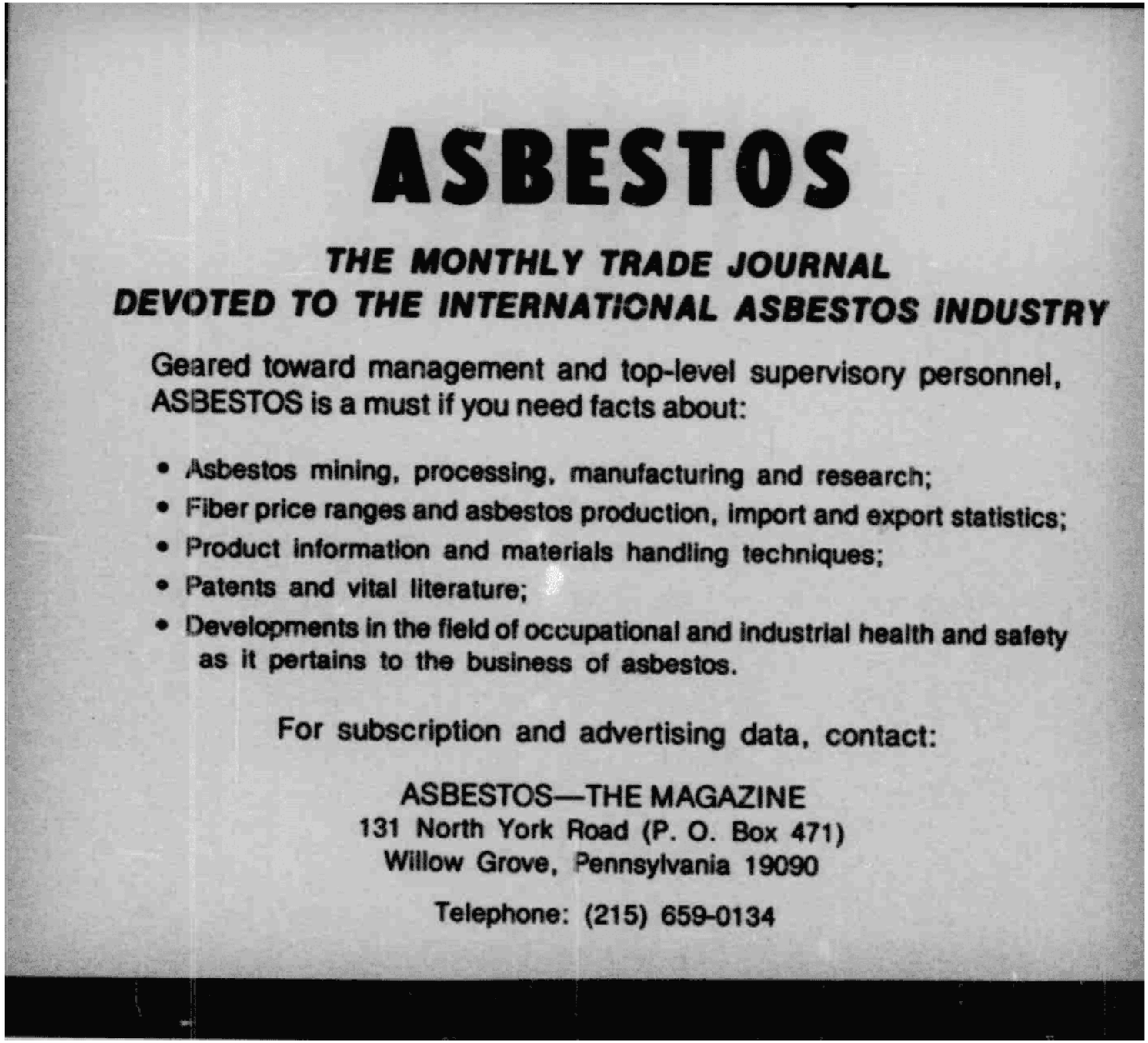
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# ASBESTOS

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# MEMBRANE SEALING OF ASBESTOS

[The following article was prepared by Pentagon Plastics USA Ltd., Springfield, Virginia, a licensee of Liquid Plastics Ltd., Preston, England. The information serves as a follow-through to the briefer item which announced the encapsulation technique called Decadex Firecheck and which appeared in the September 1976 issue of ASBESTOS, on page 14.]

With national and international attention sharply focused on the health hazards associated with asbestos, industry is faced with the problem of dealing swiftly, effectively and safely with potentially dangerous work areas.

Many asbestos-containing insulation products are in place today including fire-resistant coatings, asbestos lagging and sprayed asbestos on steelwork. Although these materials can be removed, this is a disruptive and costly process and can cause the release of dust into the atmosphere thereby exposing insulation operators and other workers in the area to potentially hazardous conditions.

## AN ALTERNATIVE

An acceptable alternative to complete stripping is total encapsulation of the material, a method which has been closely researched and developed by Liquid Plastics Ltd., of Preston, England, and its North American licensee, Pentagon Plastics USA Ltd., of Springfield, Virginia. Pentagon Plastics is now distributing a range of liquid membranes, hitherto sold in the United Kingdom and abroad for eleven years, including a seamless weatherproofing for roofs and walls, a fungistatic membrane, an anticorrosive membrane cladding and a fire-resistant membrane. It is the last of these systems—Decadex Firecheck—which has been found suitable for sealing asbestos, especially the fibrous, soft type of asbestos used for fireproofing surfaces, notably those of structural steel members.

These membrane systems have found wide general acceptance for sealing or weatherproofing a variety of insulations including polyurethane foams, expanded polystyrene, vermiculite and other surfaces which are almost impossible to seal with conventional paint treatments. The secret and vital factor in asbestos sealing lies in encapsulation, i.e., the complete wrapping of the surface with an elastomeric, seamless membrane which has ex-



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cellent adhesion but which, by the encapsulation process, provides an effective and durable cladding without relying on a mechanical or chemical key to the surface.

## SEAMLESS AND WATERPROOF

Applied by spray or brush, Decadex Firecheck encapsulates and envelops all forms of asbestos in a seamless, waterproof, elastic membrane and has been used to provide an effective barrier seal on numerous major installations.

An ideal asbestos sealing coat should embody the following characteristics: durability; flexibility and elasticity to accommodate thermal and structural movement without cracking; and resistance to impact, temperature extremes, water, oil, chemicals and ultraviolet light. In addition the coating should be weatherproof, should be a totally effective dust sealant and should completely encapsulate the substance to which it is applied, while at the same time providing a decorative finish. It should not degrade the fire classification of the substrate.

Pentagon Plastics' product meets all these requirements for encapsulating hard and soft asbestos. Although surfaces vary, they all involve one basic problem—preparation. Preparation by any means must entail surface disturbance, freeing fibers into the atmosphere—which is the very condition being combatted. Decadex Firecheck can be applied with far greater tolerance to surface contamination than conventional coatings. Vacuum cleaning of the surface to remove loose dust usually suffices except in areas of major grease contamination where careful "arms length" solvent cleaning should be employed. In extreme cases an entire surface layer should be removed after having been dampened. Protective clothing and masks must be worn during the process and the surface must be allowed to dry before coating.

## APPLICATION

Following the preparation described above, normal procedure would be:

*Hard Asbestos*—In insulation or board form, one coat of PP Sealer followed by two coats of the membrane, applied at manufacturer's suggested rates to achieve a total thickness of 400 microns (.016"); material

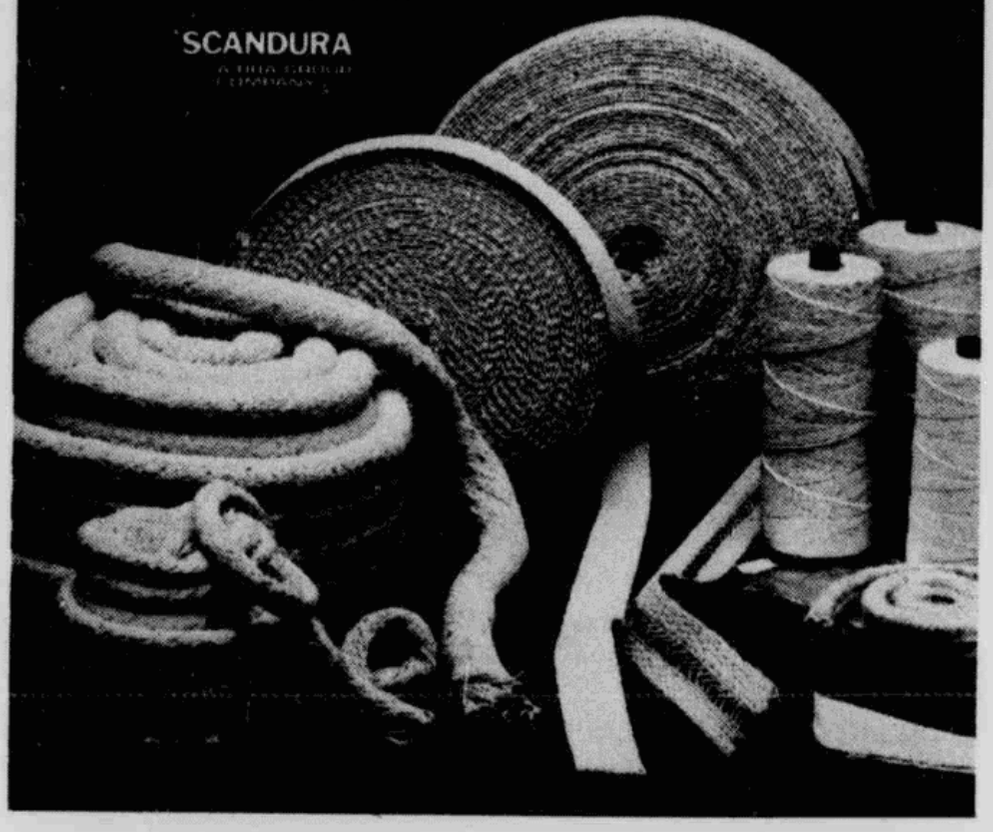


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applied preferably by airless spray.

*Soft Asbestos*—The problem here is that soft asbestos material is highly absorbent and attempts to seal the surface will result in the absorption of large volumes of sealer without achieving a continuous coating. The correct treatment is to spray on a thin stabilizing coat of membrane at the lowest possible delivery pressure, with the gun held at the maximum distance from the surface. After a 24-hour curing period a heavy coat is applied, building the membrane up to the desired 400-micron thickness. Where the membrane can be made continuous around the perimeter of a support beam, an envelope is formed, sheathing the beam and eliminating the need for mechanical adhesion. Where only three faces can be coated, the membrane is extended 12" on each side to adhere firmly to adjacent walls and ceiling and so hold the envelope in place.

These are typical applications. Clearly, each particular situation requires careful evaluation to determine the most suitable approach.

## OTHER ADVANTAGES

Where specific adhesion problems are encountered, for example in soffits, the underside can be reinforced by embedding PP Flexitape into the first coat. This treatment can also be used to reinforce the membrane to increase its resistance to rupture by impact. The resistance stems from the long-term elasticity of Decadex Firecheck. The membrane will elongate to eight times its original size without rupture.

An additional benefit of the product is ease of maintenance. Its smooth surface collects minimum amounts of dust and what does collect can be easily removed. On-site repairs do not require the attention or supervision of a specialist. Should the membrane be accidentally ruptured, it is a simple matter to cut out the ruptured section and reapply the membrane to renew the seal.

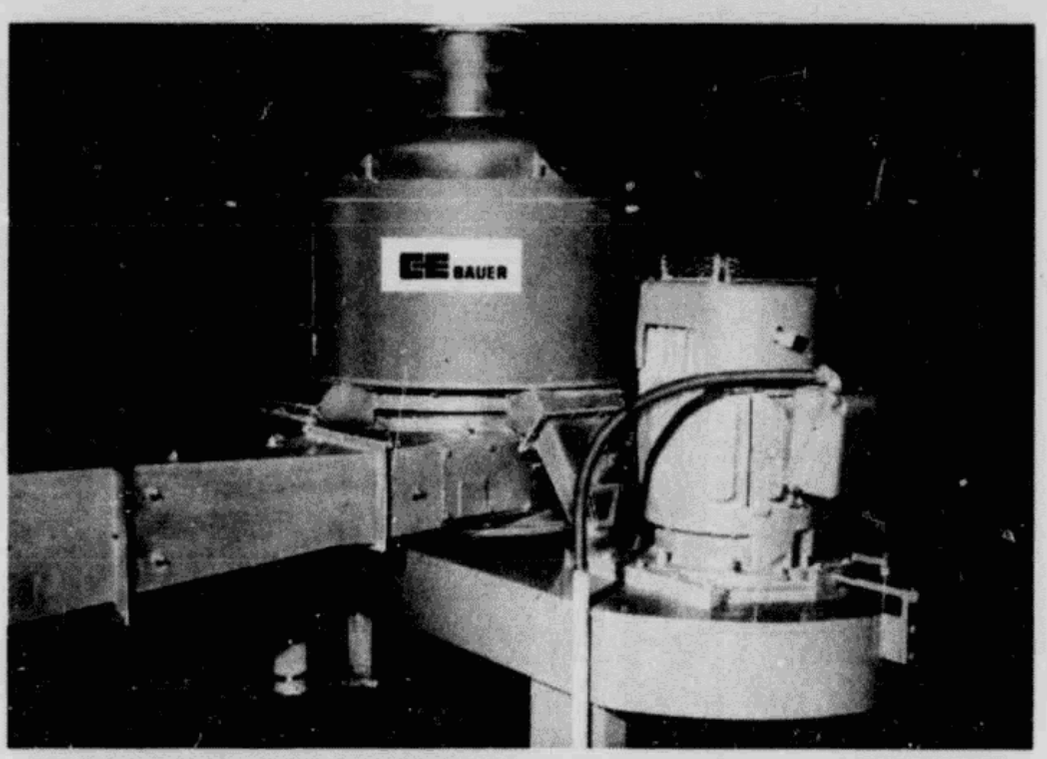
In summary, encapsulation as described here offers an economical and highly effective means for minimizing the danger of emanation of asbestos dust from existing insulation and fireproofing systems.

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**THE COVER:** Two photographs of a beam insulated with asbestos, before (left) and after (right) Decadex Firecheck was applied.



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# C-E Bauer puts the "class" in classifiers

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# COMPANIES & PRODUCTS

## R/M LAUNCHES NOVATEX CAMPAIGN

The Textile Group of *R/M Industrial Products Company*, North Charleston, South Carolina, a division of Raybestos-Manhattan, Inc., has kicked off an intensive marketing program to emphasize the end-use applications of NOVATEX®. Supporting the promotion will be advertisements in several leading publications plus a new end-user brochure titled "NOVATEX, the Great Protector." RMIPCo stresses the cleanliness of NOVATEX with regard to OSHA regulations and that asbestos is a protector of people and equipment. The yarns are extruded wet through a nozzle, thereby emitting far less fibers than when formed dry. NOVATEX is all asbestos—100% ASTM Grade AAAA, it protects up to 900°F and is 50% lighter than most conventional insulating textiles. Testing has proven great tensile and tear strength and durability. In its brochure RMIPCo asserts that even with its superior protective qualities, the textile can actually cost less than many conventional asbestos products. NOVATEX textiles are treated with an exclusive R/M process called SEALSAFE™, which uses an acrylic resin to encapsulate asbestos fibers and dramatically reduce measures of airborne fiber counts. The products so treated actually emit fewer fibers than the current OSHA Asbestos Standard when used with proper work practices. NOVATEX is available in cloth, tape and tubing for a wide variety of applications.

## T&N ACQUISITIONS

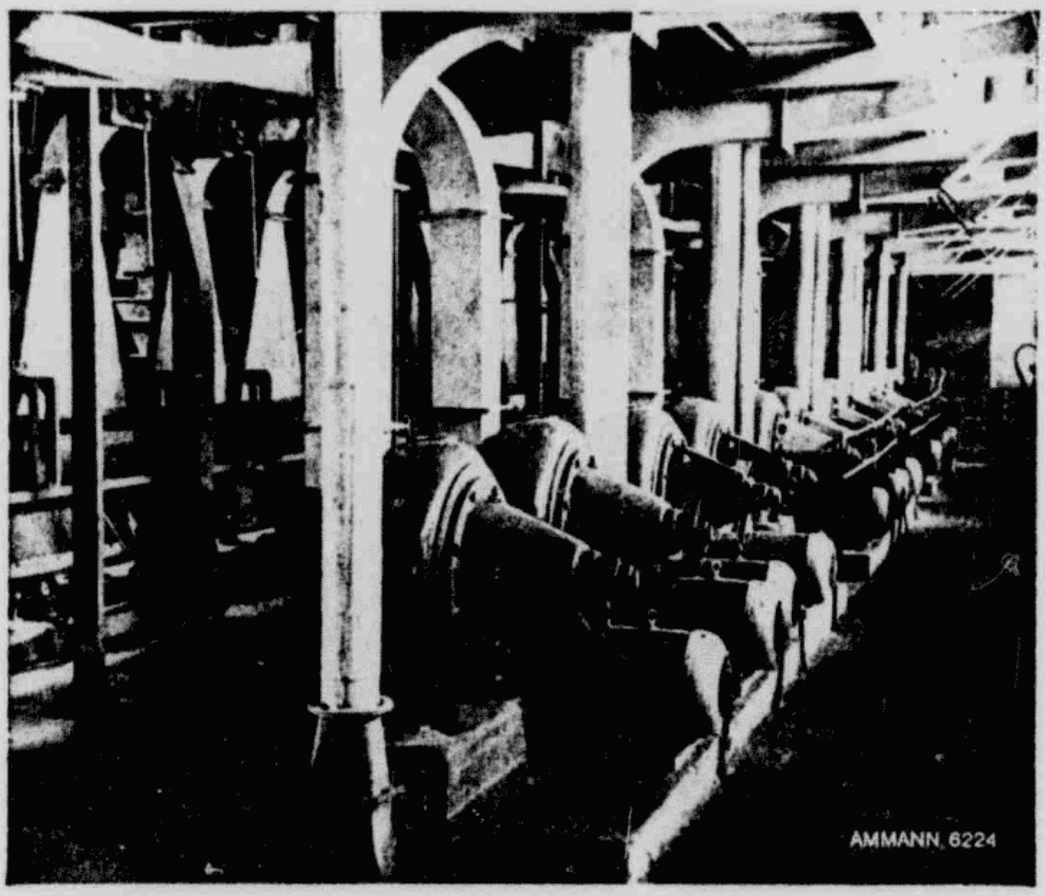
Directors of *Turner & Newall Ltd.* and *Storey Brothers and Co. Ltd.* have reached agreement on the terms of an offer to be made by T&N to acquire the whole of the issued ordinary share capital of Storeys. Storeys is a leading producer in the United Kingdom of flexible plastic sheeting, wall coverings, plastic-coated materials and synthetic rubber sheetings for the home; furniture, pram and nursery goods; fashion garments; car, footwear and luggage products; and synthetic membrane materials. The company has substantial interests in other U.K. companies plus subsidiary and associated companies in eleven other countries.

T&N Directors have reached agreement with Directors of *Philip A. Hunt Chemical Corporation*, a firm listed on the New York Stock Exchange, on the terms of a tender offer to be made by T&N's wholly-owned subsidiary, Turner & Newall Industries, Inc.,



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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.

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for the purchase of about 52% of the outstanding common stock of Hunt. Hunt is a leading specialty chemicals manufacturer producing chemicals for the photographic, reprographic, graphic arts and electronics industries.

## UNIDO TECHNICAL MATTERS

The *United Nations Industrial Development Organization* has available, for developing countries only, extensive technical information on the processing of asbestos fibers for such industrial uses as brake linings, fire protection, insulation and building materials. . . . A manufacturer of process and air pollution equipment in *Mexico* is seeking licensing arrangements and technical know-how. Annual sales of the company are about $6-million. . . . A *Hungarian concern* has licensing and know-how available for an asbestos insulating technique which does not require pre-treatment of the base surface or plating. . . . Manufacturing license and know-how are available in *Hungary* for an inexpensive insulating material made from rice husk, with insulating properties similar to those of synthetic foam. The material is claimed to be lighter than cork; resistant to fire, rot, rodents and insects; and free of toxic gases on exposure to heat.

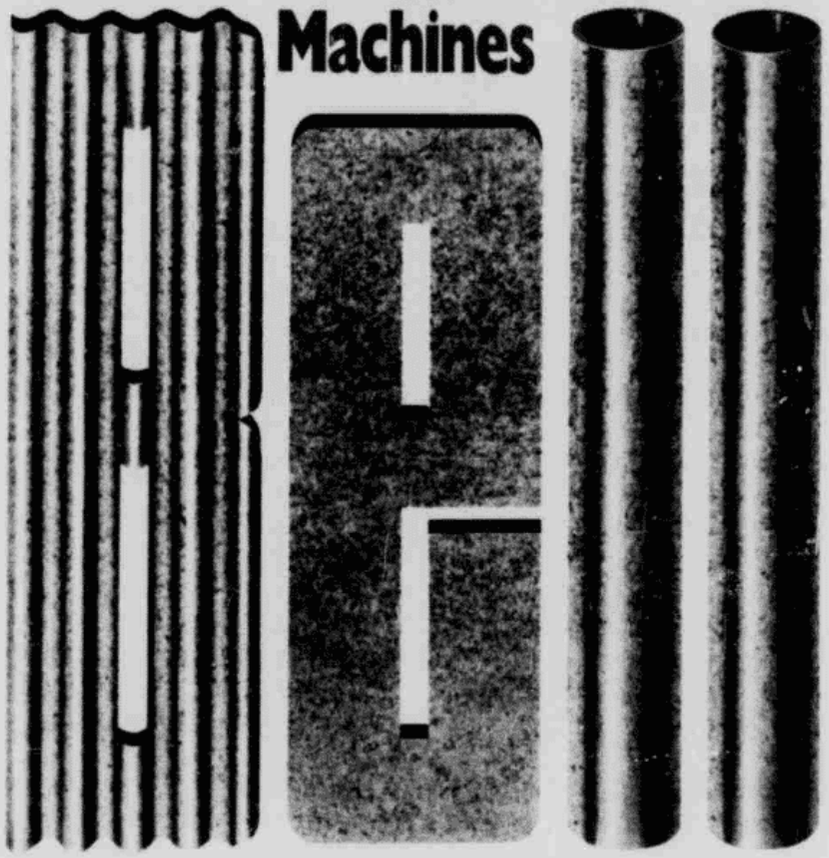
## NEW INSULATION FROM HUNGARY

*NOVEX Foreign Trade Co. Ltd. for Development and Commercialization of Inventions,* Budapest, has alerted us to ASKET, an insulating material composed of short filament (waste) asbestos fibers and a special mixture of readily-available, inexpensive materials. The material can be sprayed onto solid surfaces in the required thickness, using a water diluted binder, or built-in during the manufacture of molded articles, boards and panels. ASKET forms a secure chemical bond on clean, brittle or slightly-rusty steel surfaces and on asbestos cement and concrete. Upon hardening, the applied layer becomes insoluble in water; resists corrosion; will not decompose or loosen when subjected to water, steam or hot oil at a temperature of 160°C; is fireproof up to 1000°C; and is insensitive to thermal shock. Bond strength is not reduced by surface temperature as high as 700°C. The machine used to spray ASKET is patented in several countries. Patent applications for the material itself can still be made and the process is supplemented by substantial technical know-how.



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# Asbestos Cement Machines



Bell Engineering Works Ltd., a member of the Sulzer Group, designs, manufactures, assembles and puts into operation complete asbestos cement sheet and pipe production lines as well as individual machines, such as:

Slurry preparation equipment
Sheet machines
Stamping machines for cutting slates
Presses for high density sheets
Stackers and Corrugators
Stack transport systems

Pipe machines
Pipe curing and rounding systems
Pipe finishing machines

Waterring vacuum pumps
Asbestos board machines

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**Switzerland**

# MARKET CONDITIONS

## GENERAL BUSINESS

With due allowance for the usual seasonal lull, the rate of improvement in general business slowed perceptibly during the summer months. While most statistics continue on the plus side, a few have slipped into the minus column and some economists are now hedging their previous predictions which called for continued growth through the first half of 1978. This changed thinking is not supported by hard statistical evidence but seems rather to be based on a reassessment of the political climate in Washington and its probable effects on the economy over both intermediate and longer terms.

Possibly the broadest measure of sentiment is the stock market where the Dow Jones Industrial Average, in late August, reached its lowest point in some 20 months. Analysts can usually find something in current news to account for day-to-day fluctuations in the market but, thus far, they seem at a loss to explain the present widespread disenchantment with common stocks. A few are now leaning toward the view that the market's action may presage a business slowdown or even another recession. The reasoning behind this is based almost entirely on political considerations.

First, the Administration has repeatedly stated its belief that private enterprise offers the permanent solution to the unemployment problem and that the health of the private sector is one of its primary concerns. However, analysis of many proposed programs shows a definite bias toward increasing government intervention in more and more areas, a willingness to increase cost burdens on industry with little regard for the overall economic consequences and a failure to constructively act on the pressing need for increased capital formation.

Second, and probably more important, is the apparent disregard of Congress for the inflationary effects of much pending legislation. Higher farm price supports and the rise in minimum wages are but two cases in point. The Chairman of Congress' Joint Economic Committee has stated the key to continuing recovery lies in "more expansive" monetary policies and pressure on the Federal Reserve Board to gun the money supply is never ending. Under these conditions and in the absence of a positive Administration program to combat inflation, there are some well-founded fears that we may again see prices rising at double-digit rates and this could stop the recovery in its tracks and possibly start another recession.

While this may be dismissed as a "doom and gloom" ap-



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praisal, it is nevertheless true that this country is attempting, in a highly compressed time span, to clean up the environment, to eliminate many of the hazards of everyday living and to assure every American a modicum of the basic necessities of life as well as a myriad of less essential goods and services which are considered by some to be his God-given right. All this involves tremendous costs which must be borne by the citizenry either directly in the form of higher taxes or more subtly in the form of inflation. In either case it becomes ever more difficult for business to turn the profits needed for capital improvements, plant efficiency and worker productivity suffer, and little or nothing is left to pay stockholders for the use of their capital. This prospect of growing pressure on profits with no relief in sight seems to offer a rational explanation for the continuing weakness in stock prices. In a much broader context, investors may be evidencing a lack of confidence in the future of our entire politico-economic system in the face of continuing uncontrolled inflationary pressures.

## CONSTRUCTION RECOVERY BY 1980

According to F. W. Dodge Division, McGraw-Hill Information Systems Company, in its forecast titled *The Next Five Years*, construction will continue its strong recovery during the next two years, will reach in 1980 the peak physical volume it achieved during 1973, and then return to a pattern of slow growth in the early years of the next decade. In 1982, the end of the five-year period, new construction will be nearly 50% greater in contract value than during 1977 but, because of steady inflation, only about 15% bigger in physical volume. New contract value in 1982 is expected to reach $187-billion, almost $60-billion more than this year's anticipated level of $128-billion. Making up the predicted total will be $72-billion for residential construction (up about 30%), $57-billion for nonresidential construction (up about 70%) and $58-billion for nonbuilding construction (up about 55%).

## MOTOR VEHICLE FACTORY SALES

FIRST HALF 1977—Motor vehicle factory sales from plants in the United States totaled 6,691,016 from January-June 1977 compared with 6,121,965 during the same six months a year earlier. The breakdown for the latest half-year is 4,947,686 passenger cars (up 369,032) and 1,743,330 trucks and buses (up 200,019). . . . Factory sales from plants in Canada reached 989,412 motor vehicles in the first half of 1977 against 894,910 for the same period in 1976. [Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, Michigan]



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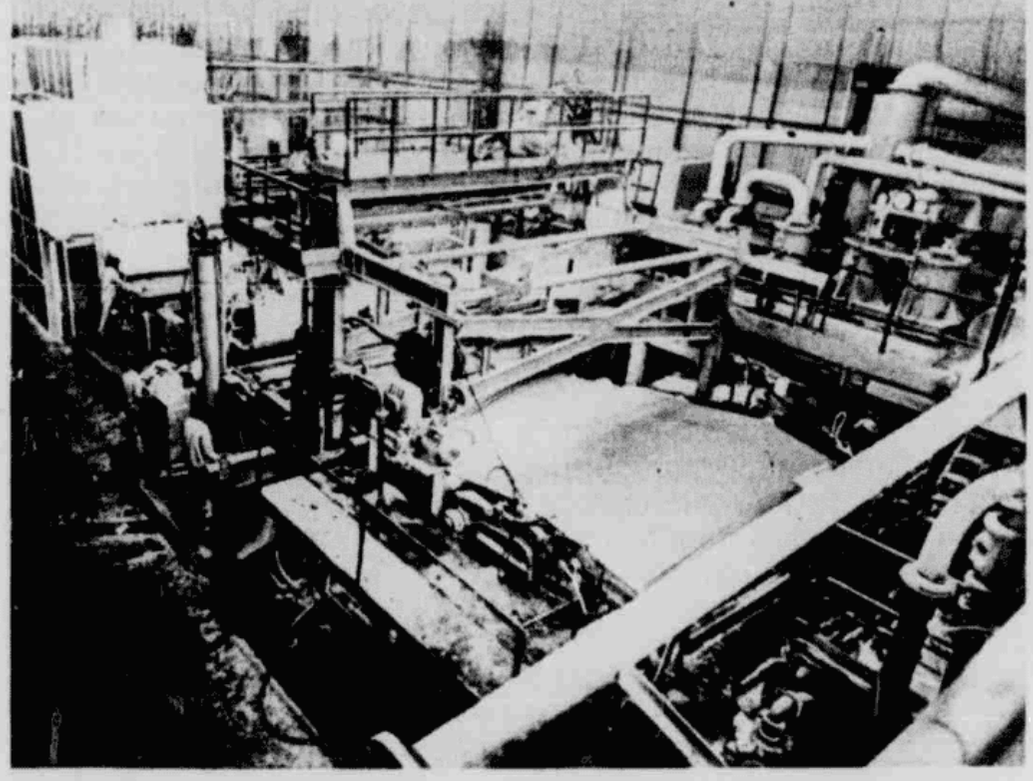
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# U.S. ENVIRONMENTAL MATTERS

## NBS/OSHA WORKSHOP ON ASBESTOS

The *National Bureau of Standards* and the *Occupational Safety and Health Administration* sponsored a three-day workshop/-meeting in July at NBS Headquarters, Gaithersburg, Maryland, to discuss current problems with defining and measuring asbestos. About 400 attendees heard a series of technical presentations by international authorities representative of government, industry and the scientific and medical communities. Major issues were mineralogical nomenclature, the relationship between the chemical and physical properties of fibers and health effects, analytical techniques for measuring asbestos, and governmental regulation. In actuality, the meeting was brought about because of a recent NBS study in response to a request from OSHA for determination of asbestos content in a series of talc samples. . . . The *Asbestos Information Association/North America* reported that the consensus of opinion was there is much to be learned about the toxicity, measurement and definition of asbestos. In his presentation, Dr. Paul Kotin, Johns-Manville Corporation, said he believes a level of exposure to asbestos exists without resultant adverse health effects and nothing of which he is aware rules out the dose-response relationship. The problems associated with long thin fibers were emphasized by the majority of speakers who addressed the asbestos-health association. Dr. Mearl F. Stanton, National Cancer Institute, stated that more work needs to be done on inhalation studies since they are the only studies which "will let us extrapolate to human experience in understanding effects of asbestos." Malcolm Ross, U.S. Geological Survey, said there are those who would define asbestos as any mineral particle of a certain size or shape, and there are those who favor zero tolerances for exposure to asbestos. He criticized this viewpoint by asserting if such were enacted into law, "we will close down the surface of the earth." It appears that no decisions were reached and there remain vast differences of opinion as to the best methodology to follow to adequately measure asbestos. The membrane filter method with optical microscope was criticized. Also discussed was the adverse economic impact if more sophisticated analytical techniques were prescribed. Proceedings of the Workshop on Asbestos are in preparation and should be available shortly.

## CPSC PUBLISHES BAN PROPOSAL

The decision reached on April 28 by the *Consumer Product Safety Commission* to ban consumer patching compounds and



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# ASBESTOS R & D

The Ontario Research Foundation has provided services to the asbestos industry on a fee or contract basis for the past 12 years. These services include:

- testing and evaluation of asbestos fibers at any stage of milling or processing;
- research and development on asbestos products such as asbestos cement, composites, textiles;
- environmental impact studies and industrial hygiene surveys of mines, mills and plants.

**ONTARIO RESEARCH FOUNDATION**

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# ONTARIO RESEARCH





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artificial emberizing materials containing respirable free-form asbestos was officially proposed in the Federal Register of July 29. Patching compounds covered by the proposed ban are those which are customarily produced or distributed for sale to or for the personal use, consumption or enjoyment of consumers in or around a residence, a school, in recreation or otherwise. Patching compounds labeled, marketed and sold solely for industrial use would not be within the scope of the ban. The proposed effective date would be 30 days after publication of the final banning rule, with artificial embers and ash to be banned upon actual publication of the final ruling. Around the same time the proposal was published, the Commission issued a set of instructions to inform the 300,000 to 500,000 consumers who purchased the ash over the past decade how to proceed with proper disposal of the material.

## EPA TOXIC SUBSTANCES CONTROL

The Federal Register of August 2 published General Provisions and Inventory Requirements of the Toxic Substances Control Act. Actually a reproposal by the *Environmental Protection Agency* of inventory reporting regulations for chemical substances under TSCA (see FR 3/9/77), the document, Phase I, does not require reporting from producers, manufacturers and importers in the asbestos industry. EPA is not expected to require data on asbestos use, worker exposure, etc., until after Phase II of the strategy is initiated, following issuance of the inventory regulations.

## OSHA BLURBS

*On-site job safety and health consultation* may now be offered by any state entering into a 90% federal/10% state-funded contract, according to revised rules issued August 16 by OSHA. Employers, particularly those with small businesses, who need assistance in understanding and complying with federal or state job safety and health rules are now able to request the no-cost service from state consultants. . . . Dr. Eula Bingham, Assistant Secretary of Labor (OSHA), told the Oil, Chemical and Atomic Workers Union (AFL-CIO) that action is being taken to *reverse an earlier decision* that denied employee representatives work pay for time spent accompanying federal job safety and health officers on inspection walk-arounds. . . . The heads of OSHA, EPA, CPSC and




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# To meet clean air standards you not only need a centralized dust collector, you also need a decentralized dust collector.

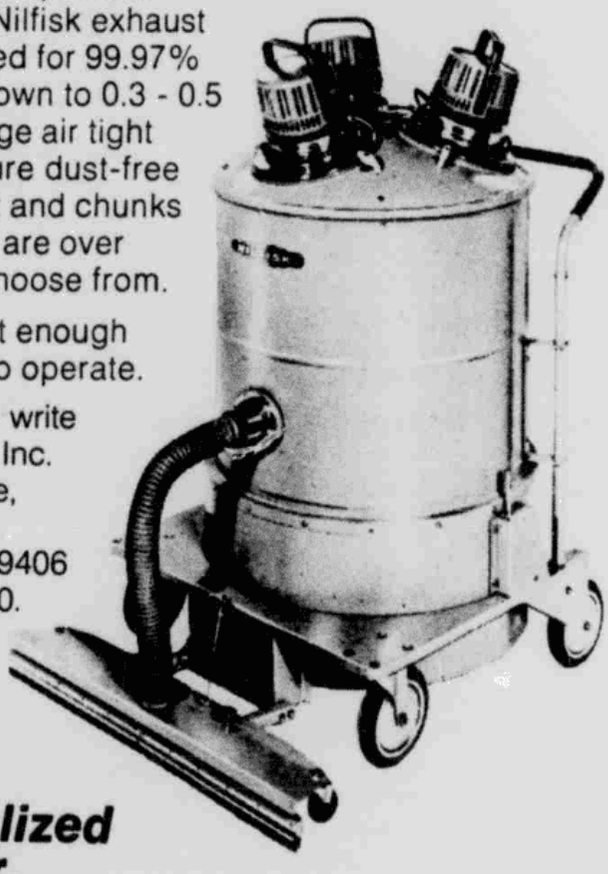
Clean air standards being what they are, you may not be meeting them even with a central dust collector. And this year, standards are being tightened even further.

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the Food and Drug Administration announced, at a joint press conference on August 2, *seven cooperative initiatives* to reform the regulatory process and improve the protection of worker and public health. . . . Ray Marshall, Secretary of Labor, announced a proposed reduction in the number of forms needed for job injury and illness *record-keeping and reporting* requirements. He also announced proposals to streamline and simplify the record-keeping and reporting system. In related actions, the U.S. Department of Labor proposed to guarantee workers access, on request, to job illness and injury data at their workplace and a reduction in the number of employers to be involved in annual job safety and health data surveys. . . . In the Federal Register of July 29, OSHA published its final ruling on Title 29, *Part 1904—Recording and Reporting Occupational Injuries and Illnesses and Part 1952—Approved State Plans for Enforcement of State Standards.* The document contains pertinent amendments to exempt employers with ten or fewer employees from the recordkeeping requirements.

## ROCK QUARRY PERIL NOT IMMEDIATE

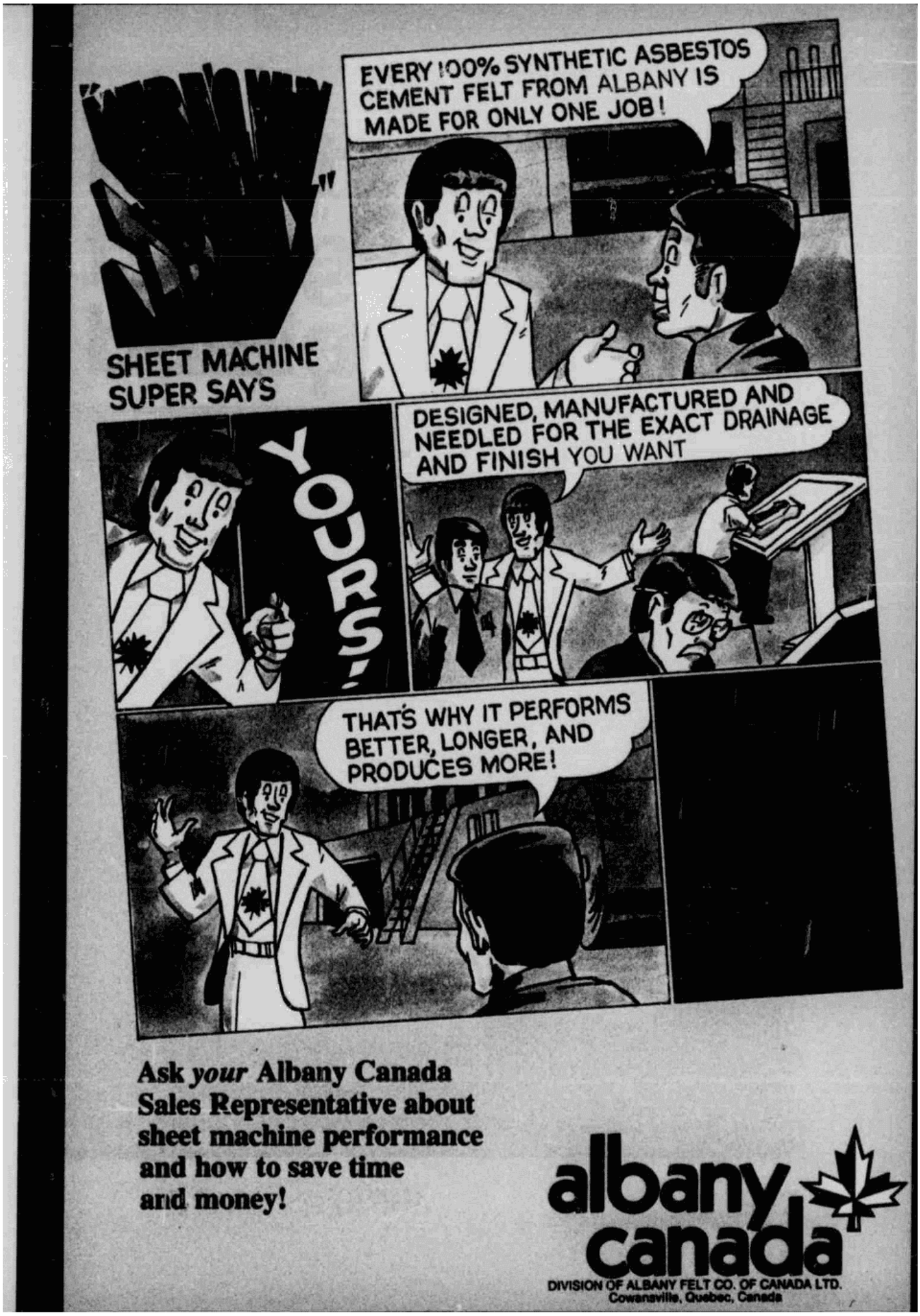
Asbestos from *serpentinite rock quarried at several sites in Maryland* appears to pose no imminent hazard to the public when used as a subsurface or base material, according to Dr. Neil Solomon, State Health Secretary. Consequently the State Health Department will not seek emergency action to limit the transport and use of crushed serpentinite although it will proceed with the regulation under normal procedural basis, a process which could take about six months.

## ASBESTOS COMPENSATION ACT

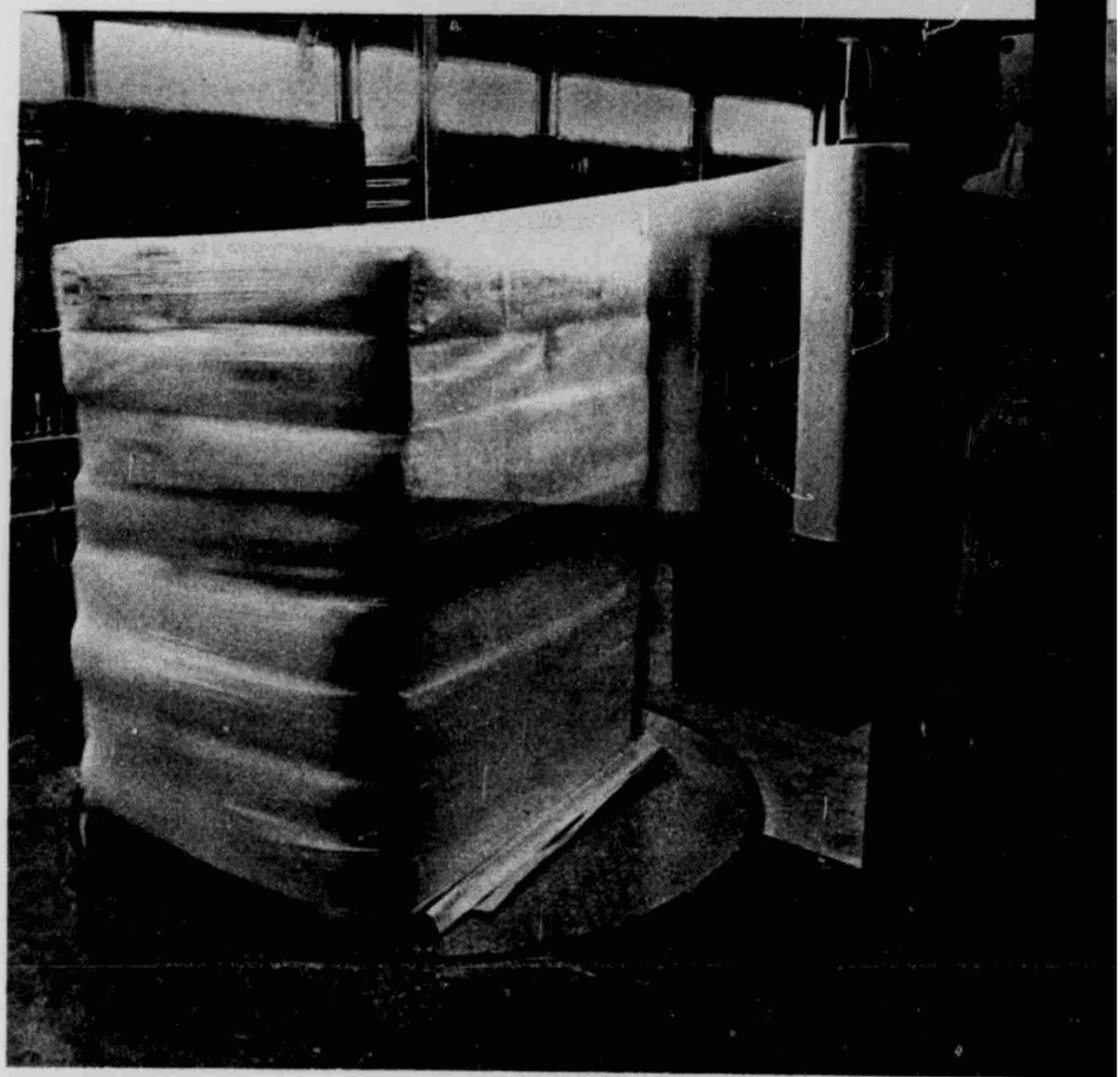
The *Asbestos Health Hazards Compensation Act* was introduced August 2 as Bill No. HR 8689 by Rep. Millicent Fenwick (R-NJ), with Rep. Edward Beard (D-RI) as co-sponsor. It provides for equitable compensation and exclusive benefits to persons who are disabled as a result of employment-related diseases caused by the inhalation or ingestion of asbestos and/or the inhalation of asbestos coupled with the inhalation of cigarette tobacco smoke; to members of such person's household; and to the surviving dependents of such persons whose death was due to such disease. Funding for compensation payments would be derived from the asbestos and tobacco industries and the federal government. The Bill has been referred to the House Committee on Education and Labor. [AIA/NA]



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SHEET MACHINE SUPER SAYS
EVERY 100% SYNTHETIC ASBESTOS CEMENT FELT FROM ALBANY IS MADE FOR ONLY ONE JOB!
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DESIGNED, MANUFACTURED AND NEEDLED FOR THE EXACT DRAINAGE AND FINISH YOU WANT
THAT'S WHY IT PERFORMS BETTER, LONGER, AND PRODUCES MORE!
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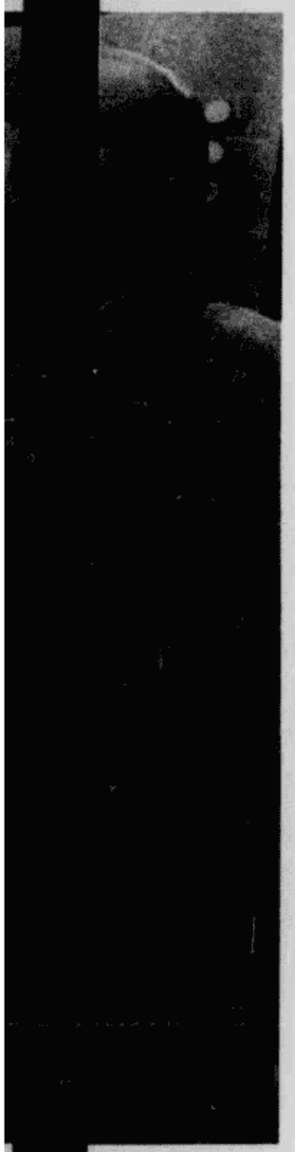
# Stretch protects against and related





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# wrapping broken bags dust problems.



Lake Asbestos 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
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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 Lake Asbestos' concern for its customers and the environment. For details contact Lake Asbestos of Quebec, Ltd., Black Lake, Quebec, Canada. Tel.: 418-423-4221. Or call a representative near you.

## LAKE ASBESTOS

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# PRODUCTION—IMPORTS—EXPORTS

## AUSTRALIAN A/C SHEET PRODUCTION

Production in Australia of non-acoustic, asbestos-cement sheets for the *Nine Months Ended March 1977* totaled 32,433,000 square meters, 6% higher than in the same period to March 1976 but down .15% from the nine months to March 1975 and down 3.2% from the three-quarters of the year to March 1974. [Australian Bureau of Statistics]

## CANADIAN FIBER SHIPMENTS

Primary Canadian Producers' shipments of asbestos (including tonnage for own use) amounted to 143,251 short tons in *June 1977* compared with 139,311 tons for the sixth month of 1976. The cumulative total for the *First Half of 1977* was 806,106 tons: 647,698 tons from Quebec plants and 158,408 tons from plants in Newfoundland, Ontario, British Columbia and the Yukon. The total for January-June 1976 was 828,160 tons: 669,948 tons from plants in Quebec and 158,212 tons from plants in the other four Provinces. [Statistics Canada]

## FELT SHIPMENTS FROM CANADA

Canadian shipments of asbestos, cotton and synthetic dryer felts and fabrics for the *First Half of 1977* totaled 2,426,960 square feet (225,472 square meters) valued at $7,258,737. Shipments of woven and/or needled wet felts and jackets (including felts used in asbestos-cement pipe or sheet-forming operations) reached 1,136,533 pounds (515,520 kilograms) valued at $16,972,089. Shipments of paper machine forming fabric amounted to 1,132,640 square feet (105,225 square meters) valued at $8,027,094. [Statistics Canada]

## PHILIPPINE IMPORTS & EXPORTS

The Republic of the Philippines imported 3,757,295 kilograms (8.3-million pounds), valued at $3,099,318, of crude asbestos and asbestos-containing products in the *Year 1976*. Exports of asbestos materials totaled 604,611 kilograms (1.3-million pounds), valued at $271,964. . . . A categorical breakdown of the imports is as follows: asbestos gaskets and packings—298,411 kilograms, valued at $788,054; friction materials—160,158 kilograms, $628,971; pipe covering—212,776 kilograms, $154,303; textiles and yarn—80,364 kilograms, $122,816; asbestos-cement materials—27,182 kilograms, $7,945; other asbestos products—507,445 kilograms; $540,231; crude, washed or ground asbestos—2,470,959 kilograms, $856,998. . . . The breakdown of exports shows asbestos-cement pressure pipes—137,628 kilograms, valued at $271,964; other asbestos-cement products—346,637 kilograms, $55,570; friction materials—120,232 kilograms, $175,397; gaskets and packings—114 kilograms, $1,235. [Trade Branch, Philippine National Census and Statistics Office]



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# IMPORTS INTO THE UNITED STATES

From: U.S. Bureau of the Census

**MAY 1977**

| | | | |
|---|---|---|---|
| **UNMANUFACTURED ASBESTOS:** | | | |
| Amosite, South Africa | s.tons | 110 | $ 53,700 |
| Crocidolite (Blue), South Africa | s.tons | 1,192 | 180,021 |
| Chrysotile Crudes, Rhodesia | s.tons | 874 | 841,369 |
| South Africa | s.tons | 422 | 261,070 |
| Chrysotile Spinning Fibers, Canada | s.tons | 462 | 455,536 |
| Chrysotile, Other, Canada | s.tons | 53,976 | 12,421,466 |
| Mexico | s.tons | 1 | 267 |
| South Africa | s.tons | 20 | 13,885 |
| Other Crudes & Fibers, Canada | s.tons | 615 | 93,568 |
| South Africa | s.tons | 117 | 12,877 |
| | | 57,789 | $14,333,739 |
| **MANUFACTURED ASBESTOS PRODUCTS:** | | | |
| Asbestos yarn, cloth, tape, etc. | Lb | 1,045,059 | $ 1,392,858 |
| A-C pipes, tubes & fittings | Lb | 1,843,388 | 185,042 |
| Other asbestos-cement articles | Lb | 1,193,494 | 308,806 |
| Other asbestos articles | | .. | 562,094 |
| | | | $ 2,448,800 |

**JANUARY-MAY 1977**

| | | | |
|---|---|---|---|
| **UNMANUFACTURED ASBESTOS:** | | | |
| Amosite, South Africa | s.tons | 132 | $ 67,094 |
| Crocidolite (Blue), South Africa | s.tons | 6,160 | 2,283,074 |
| Chrysotile Crudes, Canada | s.tons | 85 | 56,324 |
| Rhodesia | s.tons | 2,451 | 2,368,050 |
| South Africa | s.tons | 1,695 | 981,679 |
| Chrysotile Spinning Fibers, Canada | s.tons | 2,752 | 2,606,216 |
| Chrysotile, Other, Canada | s.tons | 221,236 | 50,619,391 |
| Mexico | s.tons | 12 | 2,702 |
| South Africa | s.tons | 20 | 13,885 |
| USSR | s.tons | 117 | 34,828 |
| Other Crudes & Fibers, Canada | s.tons | 4,645 | 889,706 |
| South Africa | s.tons | 1,546 | 770,818 |
| Sweden | s.tons | 1 | 495 |
| USSR | s.tons | 3,738 | 650,633 |
| | | 244,590 | $61,344,895 |
| **MANUFACTURED ASBESTOS PRODUCTS:** | | | |
| Asbestos yarn, cloth, tape, etc. | Lb | 4,393,470 | $ 6,073,299 |
| A-C pipes, tubes & fittings | Lb | 6,280,162 | 639,581 |
| Other asbestos-cement articles | Lb | 16,819,211 | 3,044,086 |
| Other asbestos articles | | .. | 2,804,809 |
| | | | $12,561,775 |



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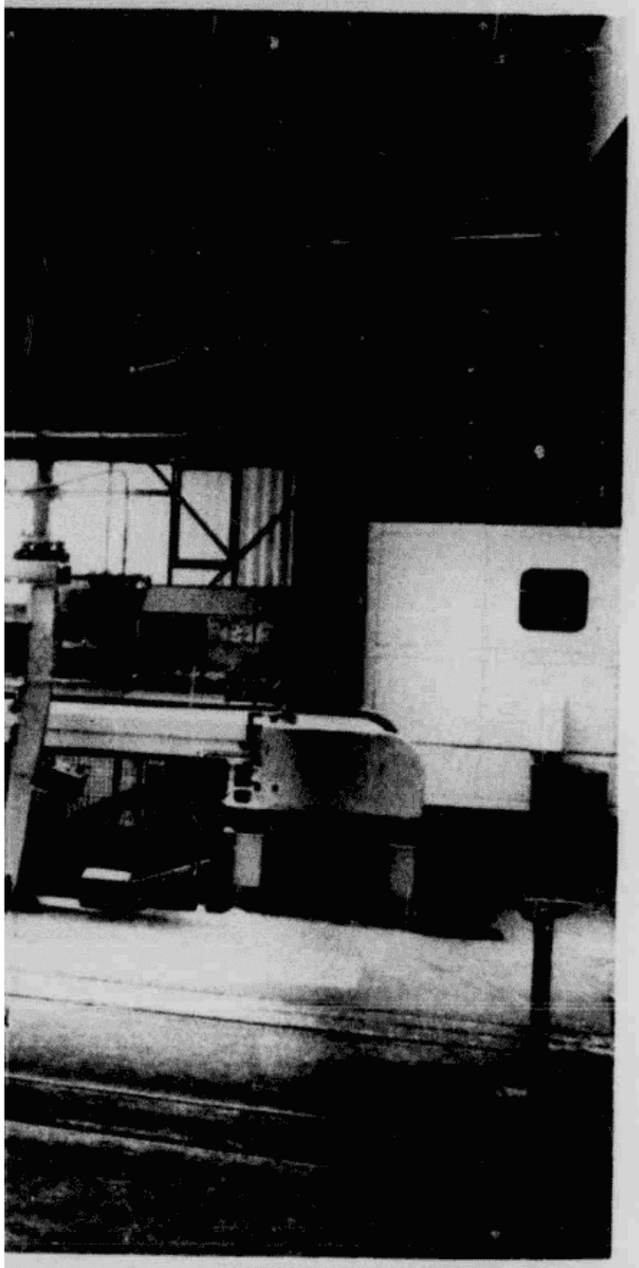

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asbestos-cement pipes

# 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

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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

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# EXPORTS FROM THE UNITED STATES

From: U.S. Bureau of the Census

**MAY 1977**

**MANUFACTURED ASBESTOS PRODUCTS:**

| | | | |
|---|---|---|---|
| Fibers not further processed than beaten, washed or graded to length | s.tons | 2,033 | $ 870,336 |
| Waste and refuse | s.tons | 2,464 | 458,455 |
| | | 4,497 | $ 1,328,791 |

**UNMANUFACTURED ASBESTOS:**

| | | | |
|---|---|---|---|
| A-C shingles & clapboard | Lb | 750,196 | $ 129,768 |
| Other a-c fiber-cement articles | Lb | 11,759,536 | 3,268,115 |
| Gaskets | Lb | 113,324 | 172,528 |
| Packing | Lb | 628,246 | 1,163,675 |
| Heat or sound insulation | | .. | 240,445 |
| Textiles & yarns | Lb | 1,824,347 | 1,127,726 |
| Protective clothing | | .. | 117,531 |
| Mfrs. other than friction materials | | .. | 2,936,751 |
| Clutch facings & linings for auto. use | No | 28,155 | 97,365 |
| Other clutch facings & linings | No | 86,392 | 47,352 |
| Brake linings for automotive use | Lb | 1,080,027 | 934,778 |
| Other brake linings | Lb | 108,879 | 195,929 |
| | | | $10,431,963 |

**JANUARY-MAY 1977**

**UNMANUFACTURED ASBESTOS:**

| | | | |
|---|---|---|---|
| Fibers not further processed than beaten, washed or graded to length | s.tons | 6,694 | $ 2,933,307 |
| Waste and refuse | s.tons | 8,916 | 1,892,021 |
| | | 15,610 | $ 4,825,328 |

**MANUFACTURED ASBESTOS PRODUCTS:**

| | | | |
|---|---|---|---|
| A-C shingles & clapboard | Lb | 3,352,794 | $ 572,197 |
| Other a-c fiber-cement articles | Lb | 22,655,381 | 5,513,748 |
| Gaskets | Lb | 513,757 | 959,852 |
| Packing | Lb | 2,248,048 | 5,099,691 |
| Heat or sound insulation | | .. | 1,555,470 |
| Textiles & yarns | Lb | 10,552,840 | 5,726,394 |
| Protective clothing | | .. | 627,316 |
| Mfrs. other than friction materials | | .. | 7,235,366 |
| Clutch facings & linings for auto. use | No | 176,523 | 374,685 |
| Other clutch facings & linings | No | 173,758 | 195,730 |
| Brake linings for automotive use | Lb | 4,933,667 | 4,503,571 |
| Other brake linings | Lb | 834,345 | 1,168,612 |
| | | | $33,532,632 |



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# EXPORTS FROM CANADA

From: Statistics Canada

**MAY 1977**
Short Tons

| UNMANUFACTURED ASBESTOS: | Crude | Milled Gp 3 | Milled Gp 4&5 | Shorts Gp 6-9 |
|---|---|---|---|---|
| Western Europe | – 54* | 921 | 24,010 | 22,765 |
| Eastern Europe | .. | 270 | 2,893 | 450 |
| Middle East | .. | .. | 737 | 28 |
| Africa | .. | .. | 849 | 185 |
| Asia | .. | 200 | 7,343 | 9,408 |
| Oceania | .. | – 13* | 4,600 | 1,296 |
| So. & Cen. America & Antilles | .. | 69* | 12,789* | 3,605* |
| United States | .. | 426 | 12,159 | 41,690 |
| | – 54* | 1,873* | 65,380* | 79,427* |

The total amount of unmanufactured asbestos exported in *September 1977* was 146,626* short tons, valued at $48,748,000*.

**MANUFACTURED ASBESTOS PRODUCTS:**

| | |
|---|---|
| Asbestos cloth, dryer felts & sheets | $ 57,000 |
| Asbestos brake linings & facings | 341,000 |
| Asbestos-Cement building materials | 1,146,000 |
| Other basic asbestos products | 626,000 |
| | $ 2,170,000 |

**JANUARY-MAY 1977**

| UNMANUFACTURED ASBESTOS: | Crude | Milled Gp 3 | Milled Gp 4&5 | Shorts Gp-6-9 |
|---|---|---|---|---|
| Western Europe | .. * | 5,250 | 122,015 | 77,900 |
| Eastern Europe | .. | 1,197 | 14,402 | 2,017 |
| Middle East | .. | 198 | 9,532 | 1,359 |
| Africa | .. | .. | 5,976 | 3,100 |
| Asia | .. | 1,302 | 46,888 | 64,248 |
| Oceania | .. | 5* | 28,479 | 4,667 |
| So. & Cen. America & Antilles | .. | 577* | 38,426* | 14,122* |
| United States | .. | 3,398 | 56,494 | 173,752 |
| | .. * | 11,927* | 322,212* | 341,165* |

The total amount of unmanufactured asbestos exported in *January-May 1977* was 675,304* short tons, valued at $229,948,000*.

**MANUFACTURED ASBESTOS PRODUCTS:**

| | |
|---|---|
| Asbestos cloth, dryer felts & sheets | $ 463,000 |
| Asbestos brake linings & facings | 1,141,000 |
| Asbestos-Cement building materials | 4,512,000 |
| Other basic asbestos products | 2,048,000 |
| | $ 8,164,000 |

*Revised



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# CURRENT ASBESTOS PRICES

**ARIZONA** *Per Ton of 2000 Lbs., F.O.B. Globe, Arizona*
*As of July 1, 1976* *U.S. Dollars*

| | |
|---|---|
| No. 1 Crude (Soft) | $ 3000.00 |
| No. 2 Crude (Soft) | 1800.00 |
| AAA | 1300.00 |
| Group No. 3—Nonferrous Filtering—Plastic | 750.00—840.00 |
| Group No. 4—Nonferrous Filtering—Plastic | 750.00—840.00 |
| Group No. 7—White Shorts | 100.00—200.00 |

**QUEBEC** *Per Ton of 2000 Lbs., F.O.B. Mine*
*As of July 1, 1977* *Canadian Dollars*

| | |
|---|---|
| No. 1—Crude | $3300.00—$4000.00 |
| No. 2—Crude | 1800.00—2175.00 |
| No. 3—Spinning Fiber | 850.00—1700.00 |
| No. 4—Asbestos Cement Fiber | 530.00—700.00 |
| No. 5—Paper Fiber | 315.00—400.00 |
| No. 6—Paper and Shingle Fiber | 245.00—275.00 |
| No. 7—Shorts | 90.00—200.00 |

**CASSIAR** *Per ton of 2000 Lbs., F.O.B. North Vancouver, B.C.*
*As of July 1, 1977* *Canadian Dollars*

| | |
|---|---|
| *Cassiar Mine* | |
| C-1 —No. 1 Crude | $3621.00 |
| AAA —Nonferrous Spinning Fiber/Canadian Group 3 | 2000.00 |
| AA —Nonferrous Spinning Fiber/Canadian Group 3 | 1600.00 |
| A —Nonferrous Spinning Fiber/Canadian Group 3 | 1050.00 |
| AC —Nonferrous Spinning Fiber/Canadian Group 3 | 913.00 |
| AK —Asbestos Cement Fiber/Canadian Group 4 | 770.00 |
| AS —Asbestos Cement Fiber/Canadian Group 4 | 670.00 |
| AX —Asbestos Cement Fiber/Canadian Group 4 | 580.00 |
| AY —Asbestos Cement Fiber/Canadian Group 5 | 420.00 |
| AZ —Asbestos Cement Fiber/Canadian Group 6 | 320.00 |
| *Clinton Mine* | |
| CP —Asbestos Cement Fiber/Canadian Group 4 | 730.00 |
| CT —Asbestos Cement Fiber/Canadian Group 4 | 650.00 |
| CY —Asbestos Cement Fiber/Canadian Group 5 | 420.00 |
| CZ —Asbestos Cement Fiber/Canadian Group 6 | 320.00 |

**VERMONT** *Per Ton of 2000 Lbs., F.O.B. Morrisville, Vermont*
*As of January 1, 1977* *U.S. Dollars*

| | |
|---|---|
| Grade 4T—Fiber | $ —$ 477.00 |
| Grades 5D thru 5R—Fiber | 314.00—369.00 |
| Grade 6D—Waste | —228.00 |
| Grades 7D thru 7T—Shorts | 95.00—182.00 |
| Grade 7TF—Floats (Shorts) | —82.00 |
| Grade 8S—Shorts | —62.00 |
| Hooker No. 1—in 50-lb. woven polypropylene bags | 1110.00 |
| Hooker No. 2—in 100-lb. woven polypropylene bags | 555.00 |



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# THE CANADIAN MINING SCENE

## ABITIBI/LAKE ASBESTOS HALT TALKS

By mutual consent, *Abitibi Asbestos Mining Co. Ltd.*, Montreal, has suspended discussions with *Lake Asbestos of Quebec Ltd.*, Black Lake, a subsidiary of *Asarco Inc.*, concerning development of the Abitibi asbestos property at Amos, Quebec. The talks were halted to permit discussion with the new Quebec Government concerning its policies on asbestos mining. It has been reported that *Brinco Ltd.*, Montreal, which owns about 60% of Abitibi, has not lost interest in the asbestos property.

## ADVOCATE REPORTS LOWER EARNINGS

Net earnings for *Advocate Mines Ltd.*, Baie Verte, Newfoundland, declined to $1,117,000 or 18.6¢ per share during the first half of 1977, compared with $2,491,000 or 36.8¢ per share in the same six-month period a year earlier. The reduction in earnings is attributable to the mining of lower grade ore in the first half of 1977, in accordance with the company's mining plan. Fiber production is expected to improve in the next six months, making 1977 a good year. . . . For the latest six-month period, 1,041,200 tons of ore were crushed to produce 40,801 tons of fiber, a decline from a year ago when 45,266 tons were produced.

## CASSIAR EARNINGS ALMOST DOUBLE

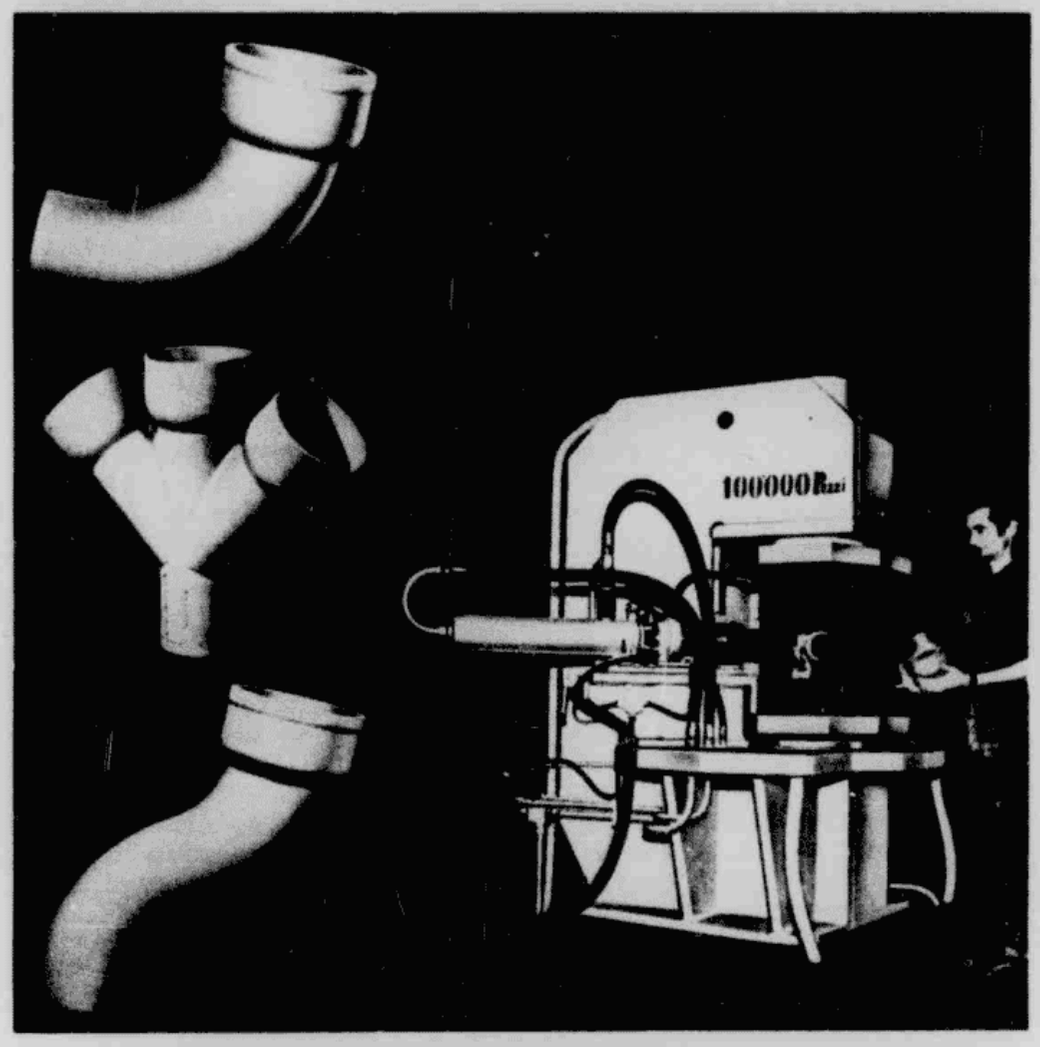
The unaudited net income of *Cassiar Asbestos Corporation Ltd.*, Vancouver, British Columbia, for the six months to June 30, 1977, was $12,706,389 or $2.31 per share, compared with $6,370,287 or $1.16 per share for the first half of 1976. Fiber sales for the latest period were 123,592 tons, valued at $61,335,714, against 93,549 tons, valued at $41,130,413. Fiber inventory at mid-year was 29,924 tons vs. 31,997 tons at the end of 1976. The present level of inventory is adequate for continuity of supply to customers when the Cassiar Mill is shut down from August 20 to September 30 to initiate a new air system and make various modifications to the mill. Demand for textile grade fiber is soft and some weakening in demand for asbestos cement grades is anticipated because of high inventories on world markets. . . . Improved performance reported for the Cassiar Mine is attributable to higher productivity and increased efficiency. At the Clinton Mine, a slope stability problem will necessitate the removal of an additional 1½-million tons of waste. Closure date for the Clinton Mine remains at mid-1978; the Cassiar Mine should continue to produce for about 20 years. . . . Exploration drilling, at an approximate cost of $200,000, is proceeding at the asbestos deposit at Kutcho Creek in northern British Columbia. Geochemical sampling has begun at the newly-acquired uranium property near Grand Forks, British Columbia.



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"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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# GRIQUALAND ANNUAL REPORT, 1976

*The Group*—The activities of *The Griqualand Exploration and Finance Co. Ltd.*, Johannesurg, comprise the mining and milling of Crocidolite (Blue) asbestos deposits either directly or by a number of wholly-owned subsidiaries in the Kuruman area of the Cape Province, Republic of South Africa. Fiber production from these and other mines not connected with the Group is sold on world markets through wholly-owned subsidiaries, i.e., Central Asbestos Co. Ltd., Central Asbestos (South Africa) (Pty) Ltd., Putten's Asbestos Corporation of South Africa (Pty) Ltd. and since July 1, 1976, through the management company, General Mining and Finance Corporation Ltd. Other wholly-owned subsidiaries include Griqualand Chrysotile Mines (Pty) Ltd., which owns certain rights to minerals in the Eastern Transvaal, and Asreco Forwarding Agency (S.A.) (Pty) Ltd., which handles shipping and forwarding of asbestos fiber. . . . Consolidated income after taxation amounted to R8,018,000 in 1976, compared with R5,142,000 in 1975. In the year under review, 817,000 metric tons of ore were mined and 545,000 tons of ore were milled, to produce 57,483 tons of fiber, 18% more than in the previous year. Percentage recovery was 10.5, cost of production per ton of fiber was R226.1, selling cost per ton of fiber was R73.6 and revenue per ton of fiber reached R435.7 against R292.4 in 1975.

*Production/Marketing*—Blue asbestos fiber production was severely hampered in the first quarter by an abnormally high rainfall. To some extent, losses were compensated for by production from the small Bute Mine in the Vryburg District (acquired during the year from Dublin Consolidated Asbestos Mines (Pty) Ltd.), but the adverse effect on unit production costs remained evident. . . . All aspects of marketing and sales proceeded smoothly in a strong market. Current forecasts for the longer-term market for Blue asbestos support the expansion program embarked upon to provide facilities for improved recovery of fiber at the four major plants. While completion of the projects will result in substantially increased tonnages, the basic objectives are higher efficiencies and substantially better utilization of ore reserves.

*Exploration/Capital Expenditure*—The cost for prospecting and exploration amounted to R363,000. Continuation of exploration of the extensive area held under option, of which a large proportion is situated in the Bophuthatswana homeland, is fully justified by recent results. It is anticipated that about R550,000 will be spent on this program in 1977. . . . Capital expenditure programs, which cost R3,918,000, included additional milling plant and equipment for improved fiber recovery, ore storage and drying facilities, two shaft sinking and development projects, preliminary work in opening a third ore deposit, continuation of the provision for unitization facilities, mechanization of fiber handling, added dust suppression equipment, better personnel housing and the purchase of the Bute Mine (R446,000). Expenditure in 1977 is estimated at R4-million for the planned expansion program, fiber handling and blending facilities, continuation of shaft sinking and equipping projects, mining equipment for increased ore production, housing programs and additional equipment to improve the control of dust at milling plants.



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# ASBESTOS STOCK QUOTATIONS

***August 16, 1977***

| | |
|---|---|
| Abitibi Asbestos | C$.66 |
| Advocate Mines | C$3.50 |
| Armstrong Cork | 18¾ |
| Armst. Cork (pfd 3.75) | 50⅝ |
| Asarco | 17¾ |
| Asbestos Corporation | C$24.375 |
| Bendix | 36½ |
| Bendix (pfd 3) | 78 |
| Carlisle | 22⅞ |
| Cassiar Asbestos | C$9.50 |
| CertainTeed | 26⅛ |
| Charter Conso. | pence 137 |
| Colt Industries | 48 |
| Colt Ind. (pfd 1.60) | 26¾ |
| Colt Ind. (pfd 4.25) | 70 |
| Conwest | C$4.00 |
| Flintkote | 19⅛ |
| GAF Corporation | 10 |
| GAF (pfd 1.20) | 16¾ |
| Gulf & Western | 12¼ |
| G&W (warrants) | ¼ |
| G&W (pfd 2.50) | 32 |
| G&W (pfd 3.87) | 61½ |
| IC Industries | 24⅝ |
| IC Ind (pfd 6) | 110 |
| IC Ind (pfd 3.50) | 44¾ |
| Jim Walter Corporation | 28⅝ |
| Jim Walter (pfd 1) | 11¾ |
| Jim Walter (pfd 1.60) | 30⅝ |
| Johns-Manville | 33⅝ |
| Kennecott Copper | 25⅜ |
| Lear Siegler | 16¼ |
| Lear Siegler (pfd 2.25) | 41½ |
| Maremont | 17⅞ |
| McAdam Mining | C$.25 |
| National Gypsum | 16 |
| Pathfinder | C$.28 |
| Porter (pfd 5.50) | 74½ |
| Raybestos-Manhattan | 30¼ |
| Rio Algom | C$26.25 |
| Supradur | Bid 5⅞; Asked 6⅜ |
| Union Carbide | 46¼ |
| Woodsreef Minerals | C$.82 |


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# INDUSTRY ASSOCIATION LEADERS

## AMERICAN SOCIETY FOR TESTING AND MATERIALS

The election of the following national officers and members of the Board of Directors of the American Society for Testing and Materials was announced by *William T. Cavanaugh*, Managing Director of ASTM: President—*William A. McAdams*, Manager-Industry Standards, General Electric Company; Vice President—*Wayne P. Ellis*, Manager, Foster Products International, H.B. Fuller Company; and Vice President—*Joseph G. O'Grady*, Manager-Energy Laboratory, Public Service Electric and Gas Company, Maplewood, New Jersey.

## CANADIAN ROOFING CONTRACTORS ASSOCIATION

*M. S. Uglow*, President of the Provincial Industrial Roofing and Sheet Metal Co. Ltd., Toronto, was elected President of the Canadian Roofing Contractors Association at the CRCA Annual Meeting held last May. Other officers elected were: First Vice President—*E. Lafeyette*, L & B Roofing Ltd.; Second Vice President—*J. G. Finn*, Ficon Roofing Services Ltd.; Secretary—*K. L. Hudson*, Dow Chemical of Canada Ltd.; and Treasurer—*T. Shipka*, Christensen & McLean Roofing (Western) Ltd. The Immediate Past President is *V. Sobkowich* of Aetna Roofing (1975) Ltd. The Executive Director of the association is *Jacques Chevalier*.

## FRICTION MATERIALS STANDARDS INSTITUTE

At its Annual Meeting in June, the Friction Materials Standards Institute, Inc., elected the following gentlemen to serve as officers of the association for the ensuing year: President—*Francis E. Messier*, Automotive Aftermarket Operations, Bendix Corporation; Vice President—*Ronald R. Moalli*, R/M International, Raybestos-Manhattan, Inc.; Treasurer—*William F. Messier*, Friction Materials Division, Bendix Corporation; and Secretary—*Edward W. Drislane*. Succeeded as President is *William Simon* of the Brassbestos Manufacturing Corporation.

## NATIONAL INSULATION CONTRACTORS ASSOCIATION

New officers elected at the 22nd Annual Convention of the National Insulation Contractors Association include: President—*Herbert A. Mullenix*, North Brothers Company; President Elect—*E. N. Dillard*, Insulation Services, Inc.; Vice President—*J. S. Royer*, Young Sales Corporation; Treasurer—*Robert E. Kramig, III*, R. E. Kramig and Company, Inc.; Assistant Treasurer—*Onza E. Hyatt*, Caudle-Hyatt, Inc.; and Secretary—*Dee C. Luse*, Luse-Stevenson Company.



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# RETIRED, BUT NOT IDLE

## ALEX A. CROSS

June 30, 1977, marked the retirement from Cape Industries Ltd. of *Alex A. Cross* whose 30 years service with the company, and association with the Asbestos Industry in general, has followed a varied and challenging path.

Following war service with the Royal Armoured Corps as a Captain with the 79th Armoured Division (during which time he was awarded the M.B.E.) and after working for Celotex Ltd., Mr. Cross joined Cape in 1947 as Cost Accountant at Barking. Within two years he was appointed Works Manager at Acre Mill where, because of his genuine interest in people, he was responsible for creating a high degree of social, welfare and community relations. In 1953 he became Works Manager of the factory at Barking, becoming closely involved with new product development, including Cape's pioneering work on moulded friction materials. He was named Managing Director of CAPASCO in 1960, a company which ceased to operate when Cape acquired Small & Parkes Ltd. (now Don International). He was then appointed Group Marketing Consultant.

When the U.K. Asbestos Information Committee was formed in 1967, Mr. Cross entered the fourth and probably most significant phase of his career. In addition to becoming a founding member of AIC he also organized and served as Chairman of the Environmental Control Committee of the U.K. Asbestosis Research Council and as Cape Group Environmental Consultant. Because of the vast experience, knowledge and high degree of respect gained during his ten-year involvement with almost every national and international organization concerned with asbestos health/safety and environmental issues, last November Mr. Cross was invited to become Director General of the newly-formed International Asbestos Information Conference. He graciously accepted the responsibility—and is now working harder than ever!

## WALTER S. SCOTT

*Walter S. Scott,* a Director and General Manager of Cape Asbestos Fibres Ltd. since 1974, has retired. Uniquely, *Joyce (nee Fitch) Scott,* his Secretary/P.A. since 1961 and wife since last December, has also retired. Between them, they totaled just over 70 years service with the company.

Mr. Scott joined The Cape Asbestos Company Ltd. in 1936 as a junior clerk in the Secretariat. Following a stint with the Royal Air Force, he returned to Cape Asbestos in 1945 on the export side of the Commercial Department. In 1959 he was appointed Manager, Raw Asbestos and Shipping. He became Sales Director of the newly-formed Cape Asbestos Fibres Ltd. in 1961 and Commercial Director of CAFL in 1967. He will maintain his connection with CAFL as a Consultant and non-executive director.



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# BIRTHDAY GREETINGS to . . .

*Norman Visnes,* Vice President-Mining, Asarco Inc., New York City, October 16.

*Miss Frances E. Mett,* President & Treasurer, Powhatan Mining Company, Baltimore, Maryland, October 18.

*J. G. Mooney,* Industrial Relations Manager, Asbestos Corporation Ltd., Montreal, Quebec, 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,* President, Pars Manufacturing Company, Ambler, Pennsylvania, October 22.

*L. B. Petters,* Chairman & Managing Director, Turnall Ltd., Jacobs, Durban, Natal, Republic of South Africa, October 27.

*J. R. Sim,* a Director and Personnel 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 Company, N. Charleston, S. C., 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.

*Sam E. Brasher,* President, Industrial Products Division, The Celotex Corporation, Jim Walter Corporation, Tampa, Florida, November 5.

*William Maaskant,* Sales Service Manager, Amatex Corporation, Norristown, Pennsylvania, November 5.

*Dirk Salomons,* Director & President of the Board, Asbest-cement-industrie Asbestona N.V., Harderwijk, Holland, November 5.

*Dr. Hilton C. Lewinsohn,* Corporate Medical Director, Raybestos-Manhattan, Inc., Trumbull, Connecticut, November 7.

*Melvin Berlund,* Superintendent, Atlas Asbestos Company, Coalinga, California, November 9.

*Richard Gaze, Ph.D.,* Managing Director, Cape Asbestos Fibres Ltd., London, England, 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.

*Willis G. Sullivan,* Secretary, A & M Insulation Company, Chicago, Illinois, November 12.

*W. B. Callan,* General Manager-Thetford Operations, Asbestos Corporation Ltd., Thetford Mines, Quebec, November 14.

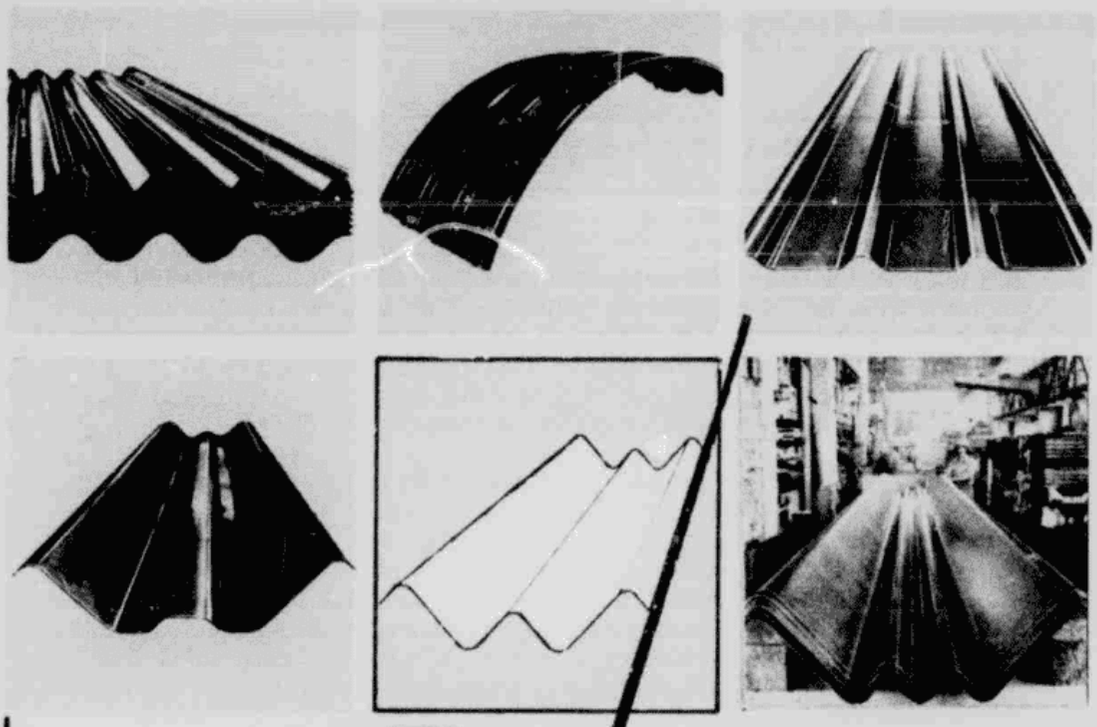
*K. H. Dixon,* Deputy Chairman, TBA Industrial Products Ltd., Rochdale, Lancashire, England, November 14.

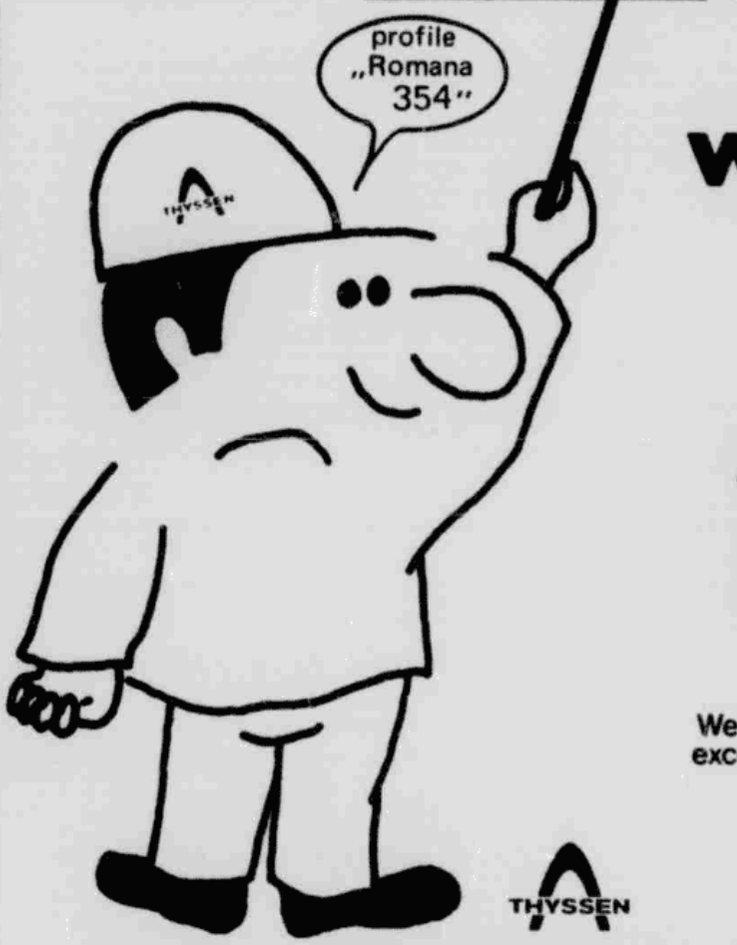
*George W. O'Dair,* Senior Vice President for Finance, Johns-Manville Corporation, Denver, Colorado, November 14.

*George L. Romine,* Vice President-Abex & President, Friction Products Group, Abex Corporation, New York City, November 14.



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# VALUABLE LITERATURE

*CANADIAN MINES HANDBOOK 1977/78*—Provides comprehensive, current data on Canadian mining companies and addresses, names of officers and directors, ore reserves, mine development, new properties, capitalization, and finances; includes 32 pages of detailed maps of mining areas and an 8-year range of mining stock prices [416 pages; $12.00 per paper bound copy; $15.00 per deluxe hard or leatherette bound copy; order from Northern Miner Press Ltd. or through ASBESTOS].

*BUREAU OF MINES RESEARCH '76*—Highlights significant accomplishments in all areas of U.S. Bureau of Mines' research in 1976, from energy conservation in mineral processing to surface-mined land restoration; covers nearly $153-million worth of work aimed at helping the U.S. supply more of her own minerals and mineral raw materials needs while safeguarding environmental quality and upgrading on-the-job safety and health protection for mineral industry workers [$3.00 per copy; GPO Stock Number 024-004-01900-0; order only from the Superintendent of Documents, U.S. Government Printing Office, Washington, D. C. 20402].

*OSHA CASEBOOK*—A twice-monthly, looseleaf newsletter covering developing OSHA case law, by Robert D. Moran, Esq., former Chairman of the U.S. Occupational Safety and Health Review Commission; provides analysis of case law applying to all OSHA matters as they develop, discussing each major OSHA case as it is decided and comparing current cases with existing precedent; gives in-depth coverage on all legal aspects of inspections, abatement, penalties, violations, citations, hazards, pleadings, OSHA standards, evidence, jurisdiction, settlement, notice of contest and the limits of the authority of the U.S. Secretary of Labor, the Review Commission and the courts; the topics of the first three issues, in order of publication, are the feasibility of OSHA compliance, the court upholding the physical examination requirement of the Asbestos Standard and citations [$110.00 per year; order from OSHA Casebook, 2029 O Street, N.W., Washington, D. C. 20036].

**PHOTOCOPIES OF MOST OF THE FOLLOWING ARE AVAILABLE FROM ASBESTOS @20¢ PER PAGE.**

*Contribution to Monitoring Deformations in Open-Cast Mining Banks and Waste Dumps* [8 pages; written in Yugoslavian with English summary; Bulletin of Mines, Rudarski Institute].

*Mineral Composition of Stragari Asbestos and Possibilities of Developing New Technological Processes for Asbestos Concentration* [10 pages; written in Yugoslavian with English summary; Bulletin of Mines, Rudarski Institute].

*TOSCA Paves the Way for Controlling Toxic Substances* [2 pages; Environmental Science & Technology, American Chemical Society].

*Tracking Pollutants from a Distance* [3 pages; Environmental Science & Technology, American Chemical Society].

*Challenging Effluent Limitations* [4 pages; Environmental Science & Technology, American Chemical Society].



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Chicago, Illinois 60606
Tel: (312) 726 8515

*Asbestos Cement Products*—The following articles, written in Russian, appeared in various issues of Construction Materials: Optimization of the Assortment of Asbestos-Cement Pipes at the Plants [2 pages]; Selsyn Thickness Gage for Asbestos-Cement Pipes (1 page]; Flat Asbestos-Cement Protective Sheets on Non-Staining Cement [2 pages]; Asbestos-Cement Structures for the Construction of Agricultural Production Buildings [2 pages]; Safety of Labor at the Enterprises of the Asbestos Cement Industry [2 pages]; Development Trends in the Building Materials Industry of Yugoslavia [2 pages]; Asbestos-Cement Sectional Plates and Panels [2 pages]; Results of Mastering the Manufacture of Asbestos-Cement Pipes on the New SMA-172 Equipment [3 pages]; Asbestos-Cement Structures in the Tenth Five-Year Plan Period [3 pages]; Kinetics of Solidification of Asbestos-Cement Sheets when Utilizing Cement of Different Mineralogical Composition [2 pages].

*The Asbestos Debate/MESA Moves to Reduce Exposure Limit Further* [6 pages; MESA Magazine].

*OSHA Reaches Out to Small Businesses* [8 pages; Job Safety and Health].

*How West Germany Protects Its Workers* [5 pages; Job Safety and Health].

*Asbestos Minerals and their Nonasbestos Analogs* [30 pages; presented by S. G. Ampian at the Electron Microscopy of Microfibers Symposium, Pennsylvania State University, August 1976; limited supply of free copies available from the Branch of Publications Distribution, U.S. Bureau of Mines, 4800 Forbes Avenue, Pittsburgh, Pennsylvania 15213].

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## STILL AVAILABLE . . .

*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]

*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. [$18.95 to the U.S., Canada and Mexico; $21.95 to all other countries; place orders with ASBESTOS Magazine]

*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]



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# NEW ASBESTOS PATENTS

U.S. patents may be purchased from The Commissioner of Patents, Washington, D. C. 20231, for 50c each. Photoprints of non-U.S. patents may be purchased from the same source at a cost of 30c 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 1,472,692*—Brake linings having an improved coefficient of friction are fabricated from a conventional mixture of asbestos, brass chips, barium sulfate and a phenolic resin to which has been added an optimum amount of a styrene-butadiene or acrylonitrile latex which is deposited on a finely-divided phenolic resin base; assigned to The Goodyear Tire & Rubber Co., May 4, 1977; 4 pages.

*British 1,472,787*—A composition for making non-drip moulded articles comprises essentially (1) about 100 parts by weight of polybutylene terephthalate, (2) 2-8 parts of finely divided red phosphorus, (3) 2-10 parts of Chrysotile asbestos, and (4) 15-40 parts of alkali-deficient E-glass fibers; assigned to BASF A. G., May 4, 1977; 3 pages.

*U.S. 3,963,439*—A method is described for forming parallel aligned Chrysotile asbestos fibers on a thin substrate for use in a system for identifying the Chrysotile asbestos in air pollution samples; system comprises a collimated x-ray beam which is incident on the parallel aligned asbestos fibers; diffracted x-rays are detected by an adjustable proportional counter set at the diffraction line position for the (002) plane; background intensity may be detected by a second adjustable counter set about the axis at the same angle 2 theta or the sample may be rotated 90° and the one detector used to detect diffracted and background x-rays; L. S. Birks & M. Fatemi; assigned to U.S. Department of the Navy, June 15, 1976; 6 pages.

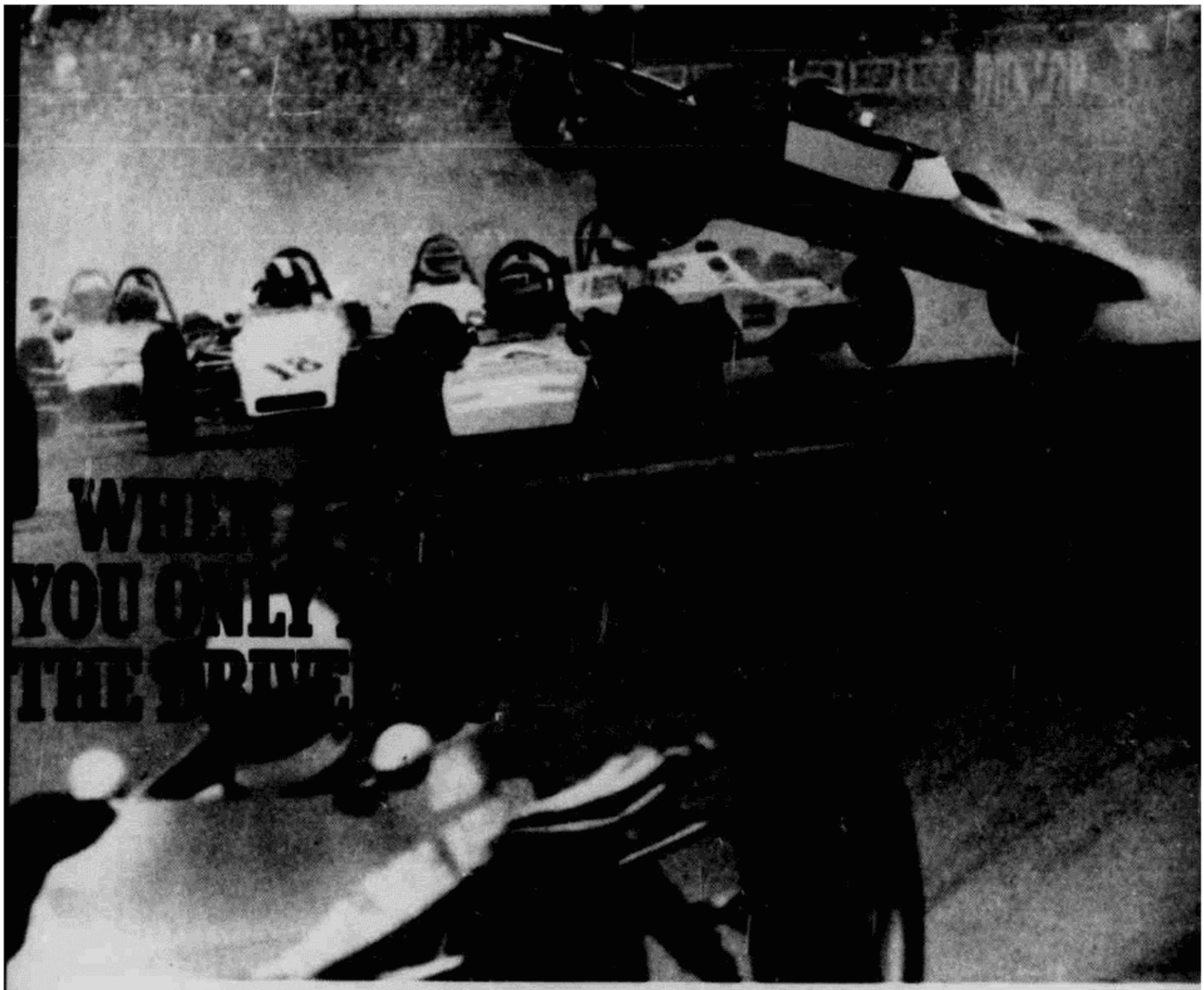
*U.S. 4,034,675*—Resonance rods for eliminating combustion instability and promoting burning of the solid propellant in a solid propellant rocket motor are formed from a mixture of phenolformaldehyde resin, asbestos or carbon black, and n-hexylcarborane or n-butylferrocene as a burning rate catalyst; D. C. Sayles; assigned to U.S. Secretary of the Army, July 12, 1977; 4 pages.

*U.S. 4,035,312*—A heat shield for use in the repair of jewelry, dental goods or the like consists of a mixture of about 100 parts by weight of asbestos powder, 5 parts of boric acid, 1 part of glycerol and 25-30 parts of water; D. D. Banks; July 12, 1977; 4 pages.

*U.S. 4,036,656*—In the preparation of a foamed mastic for use in the fireproofing or soundproofing of steel structural members or the like, hydrolyzed animal protein is aerated and the aerated protein blended with magnesia, magnesium sulfate or magnesium chloride and asbestos shorts to form a pumpable or sprayable foam cement; M. P. Bucco & A. van Valkenburg; assigned to The Mearl Corporation, July 19, 1977; 6 pages.



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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.

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# CALENDAR OF EVENTS

*INSULATION CONTRACTORS FALL MEETINGS*—EASICA, Sheraton-Hartford Hotel, Hartford, Connecticut, *September 29-30;* CSICA, The Greenbrier, White Sulphur Springs, West Virginia, *October 15-18;* SEICA, Waynesville Country Club, Waynesville, North Carolina, *October 16-18;* WICA, Camelback Inn, Scottsdale, Arizona, *October 19-22;* MICA, Hilton Hotel, Omaha, Nebraska, *November 10-11.*

*INTRINSICALLY SAFE APPROACHES TO USE OF ELECTRONICS IN HAZARDOUS AREAS*—Seminars conducted by Information Concepts, Inc.: *October 4-5* and *October 6-7* in Calgary, Alberta; *October 10-11* and *October 12-13* in Newport Beach, California.

*2ND CONGRESS OF INTERNATIONAL TECHNOLOGY*—sponsored by the International Technology Institute; William Penn Hotel, Pittsburgh, Pennsylvania, *October 9-14.*

*INTERNATIONAL TRADE POLICY AND AMERICAN INDUSTRY CONFERENCE*—The Conference Board offers this opportunity to the importing community to assess the causes of discontent with past U.S. trade policy and to hear from policy-making officials in the current Administration on their methods for dealing with this discontent; The Waldorf-Astoria, New York City, *October 11.*

*ENERGY TODAY AND TOMORROW*—Symposium presented by the South Africa Institute of Fuel and the Fuel Research Institute of South Africa; Conference Center, Council for Scientific and Industrial Research, Pretoria, Republic of South Africa, *October 11-12.*

*4TH ANNUAL UMR-MEC CONFERENCE ON ENERGY*—Conducted by the University of Missouri-Rolla in cooperation with the Missouri Energy Council; UMR University Center, Rolla, Missouri, *October 11-13.*

*THE PRODUCERS' COUNCIL, INC.*—56th Annual Conference to be held at colonial Williamsburg, Virginia, *October 11-13.*

*NATIONAL BUREAU OF STANDARDS*—Forthcoming events sponsored by NBS include: 13th Meeting of the Computer Performance Evaluation Users Group, New Orleans, Louisiana, *October 11-14;* Conference on Time and Frequency Calibration/Methods and Resources, Boulder, Colorado, *October 17-19;* Workshop on Rapid Solidification Technology, Reston, Virginia, *November 13-17.*

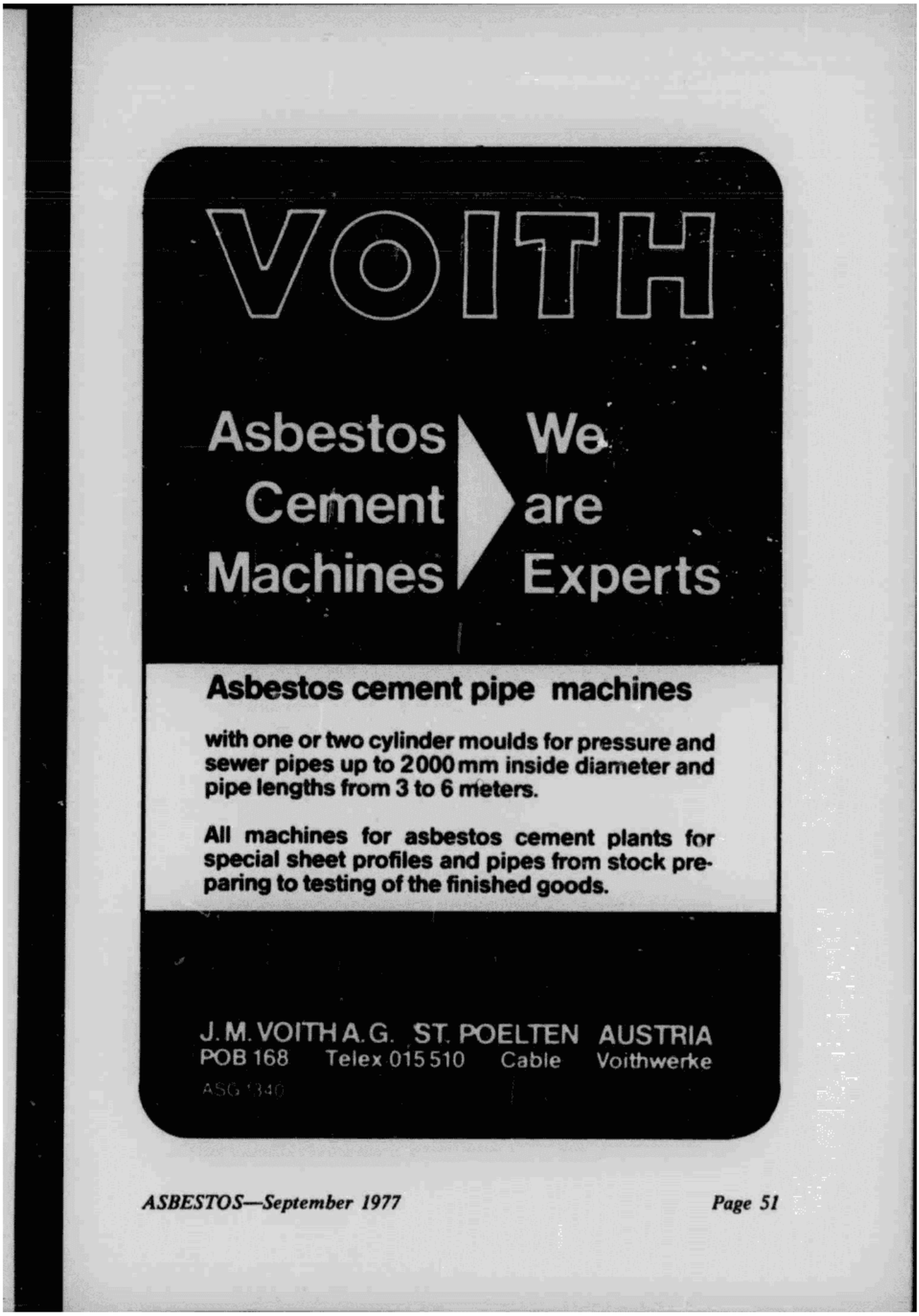
*3RD CANADIAN MINING AND AGGREGATE EQUIPMENT EXHIBITION*—Exhibition Place, Toronto, Ontario, *October 12-14.*

*ISA FALL INDUSTRY ORIENTED CONFERENCE AND EXHIBIT*—Presented by the Instrument Society of America; International Convention Center, Niagara Falls, New York, *October 16-20.*

*NIOSH TRAINING COURSES*—To be held in Cincinnati, Ohio, unless otherwise noted: Introduction to Occupational Safety and Health, *October*



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*16-21;* Industrial Hygiene Respiratory Protection (Las Vegas, Nevada), *October 18-21;* Industrial Hygiene Chemistry, *October 31-November 4.*

*SOCIETY OF MINING ENGINEERS*—A short course on longwall and shortwall mining will be held *October 17-18* by SME-AIME, just prior to the SMA Fall Meeting and Exhibit to take place at the Convention Center, St. Louis, Missouri, *October 19-21.*

*INFORMATION MANAGEMENT EXPOSITION AND CONFERENCE/INFO 77*—Produced by Clapp & Poliak, Inc.; Coliseum, New York City, *October 17-20.*

*ENVIRONMENTAL LAW*—Practical Course presented by Government Institutes in cooperation with "Pollution Engineering": Beverly Hilton Hotel, Los Angeles, California, *October 20-21;* Capital Hilton Hotel, Washington, D. C., *November 10-11.*

*THEORY, PRACTICE AND PROCESS PRINCIPLES FOR PHYSICAL SEPARATIONS*—Conference presented by the Engineering Foundation; Asilomar Conference Grounds, Pacific Grove, California, *October 30-November 4.*

*ADVANCING ENERGY TECHNOLOGY*—Golden Jubilee Conference of the Institute of Fuel; Eastbourne, England, *October 31-November 2.*

*INTERNATIONAL PLANT ENGINEERING AND MAINTENANCE EXHIBITION AND CONFERENCE*—Organized by Clapp & Poliak (Europe) Ltd.; National Exhibition Center, Birmingham, England, *October 31-November 4.*

*AUTOMATED PRODUCTION EXHIBITION AND ELECTRICAL ENGINEERING EXHIBITION*—Organized by Exhibitions for Industry Ltd.; Manchester, England, *November 7-11.*

*PROFESSIONAL DEVELOPMENT*—Seminars at McGill University, Montreal, Quebec: Mine Lighting, *November 7-9;* Mineral Processing Systems, *November 21-December 2;* Geophysical Exploration/Interpretation of Magnetic Data, *December 5-9.*

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*Asbestos Magazine, 1977, September 1977*
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# REMEMBER WHEN?

## (August 1927 ASBESTOS)

New Advertisers: L. Scheerders—Van Kerchove, St-Nicholas-Waes, Belgium; Cyprus Trading Corporation Ltd., London, England.

This issue contained a short history of Cresswell's Asbestos Company Ltd., producers of "Chekko" brake lining, reputed to be the world's only cotton-free lining. Founded about 1877 and incorporated in 1909, the firm began specializing in brake lining manufacture in 1915 and, by 1927, had established agencies all over the world.

The Asbestos Brake Lining Association was distributing a leaflet giving information on the proper conduct of brake testing campaigns. The interest in such campaigns on the part of states and municipalities reached a new peak during the summer of 1927.

It was announced that Mr. B. Marcuse, well known for some twenty years as an independent dealer in raw asbestos, had become associated with the Canadian Asbestos Company, Montreal, Quebec, as a consultant and was closing his office in New York City.

Vermiculite & Asbestos Company reported opening a new vein of high-grade amphibole asbestos at its working near Libby, Montana.

## (September 1927 ASBESTOS)

New Advertiser: Hollywood Asbestos Mines, Hollywood, Georgia.

In an article on the early discoveries of asbestos in the United States, it was noted that the first report was made by the U.S. Geological Survey in 1861, the find being of an amphibole variety in Vermont. In 1899 deposits were discovered at Belvidere Mountain, Vermont, and in 1903 the Arizona Chrysotile deposits were discovered by Mr. M. L. Shackleford at the head of Pinto Creek, about 23 miles west of Globe.

In the year 1926, asbestos brake lining made in plants of members of the Asbestos Brake Lining Association totaled over 91-million linear feet. This was in addition to the 26-million feet of cotton linings used in Ford cars.

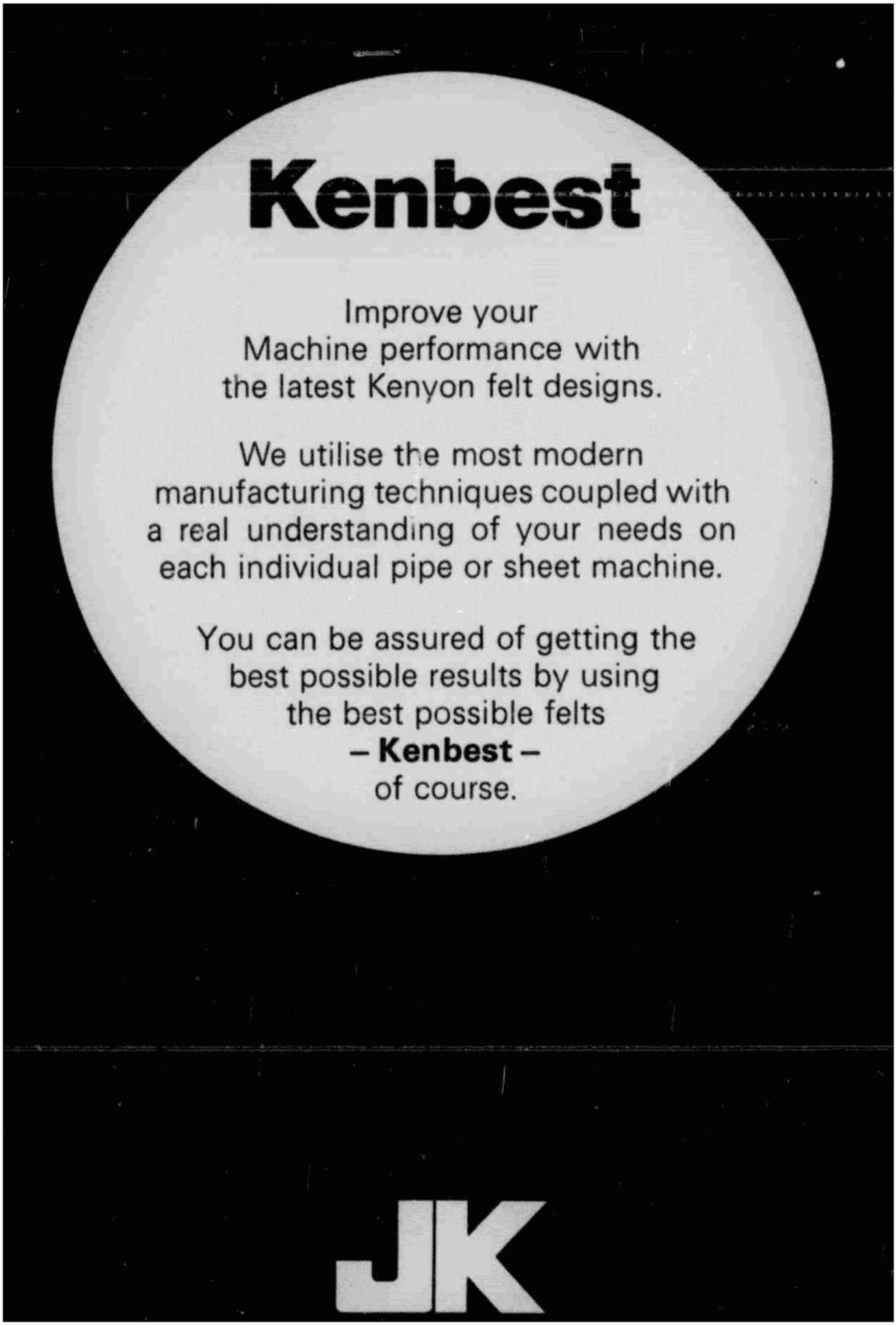
Beton and Mollith, S.A., of Moll, Belgium, was installing a third group of machines to increase its output of asbestos shingles and sheets to 16,000 square yards per day.

The Southern Friction Fabric Company was organized in Charlotte, North Carolina, for the manufacture of asbestos and cotton specialties.

**NEXT ISSUE: GEFCO/BLUE ASBESTOS PRODUCER**



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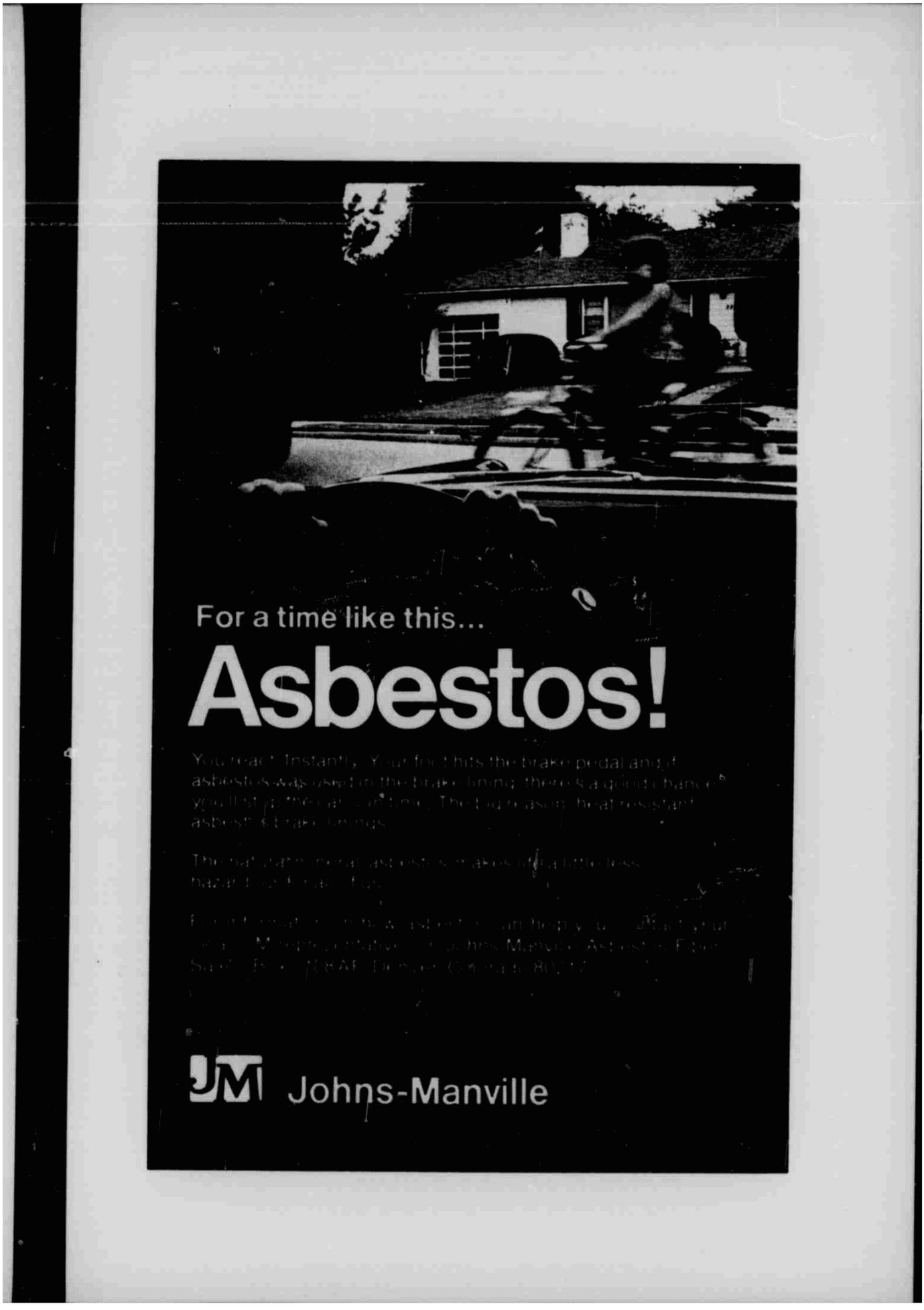
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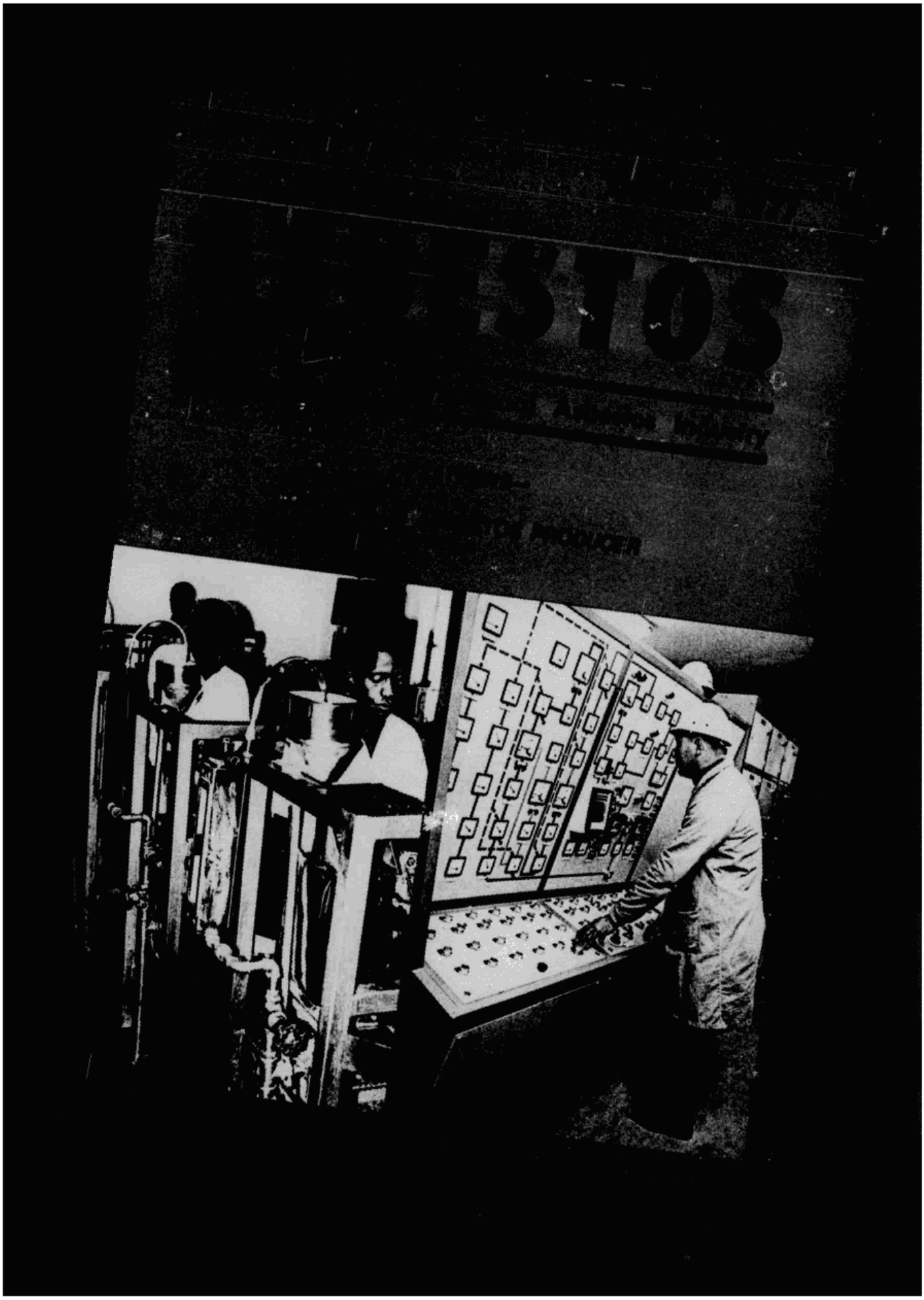
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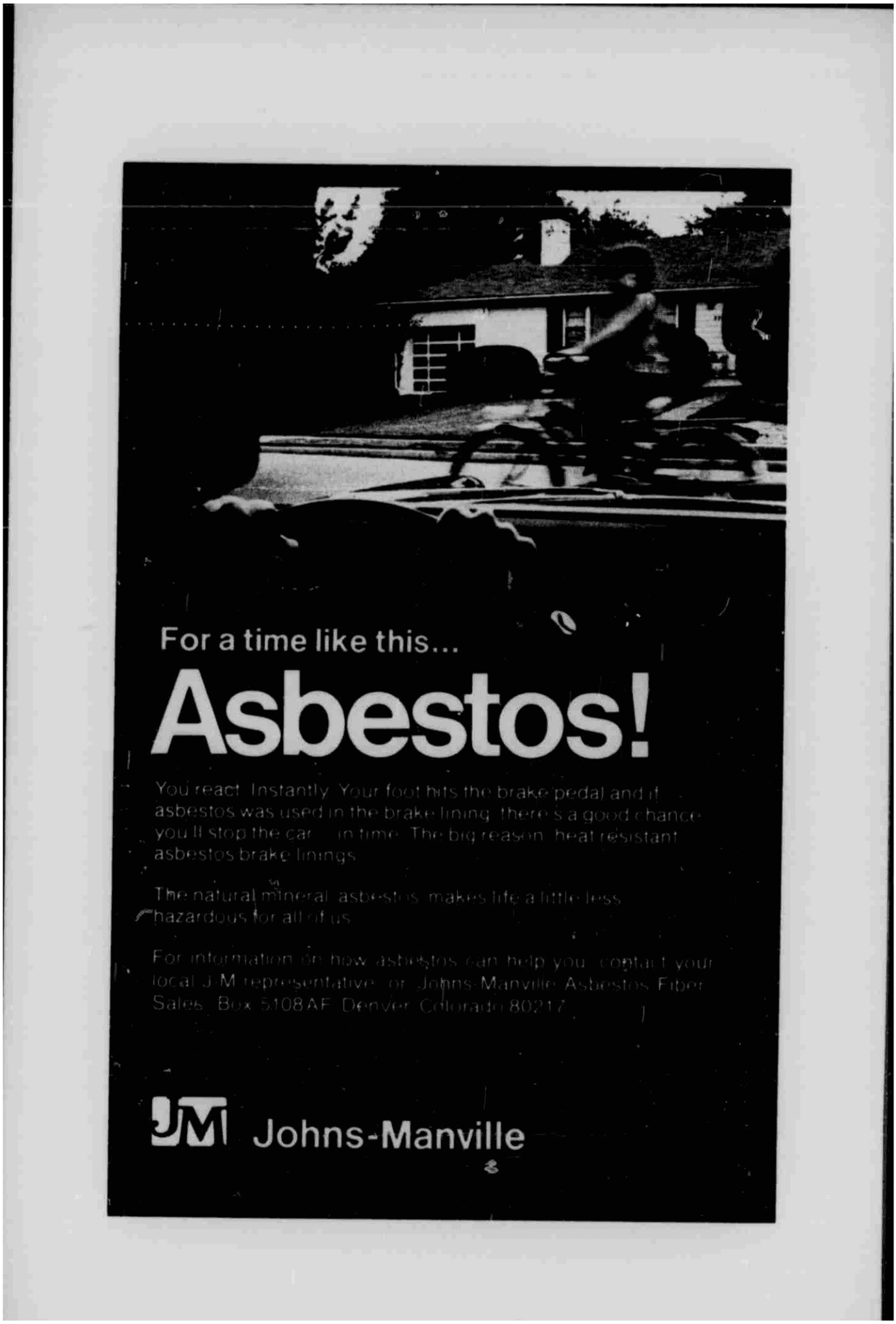
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