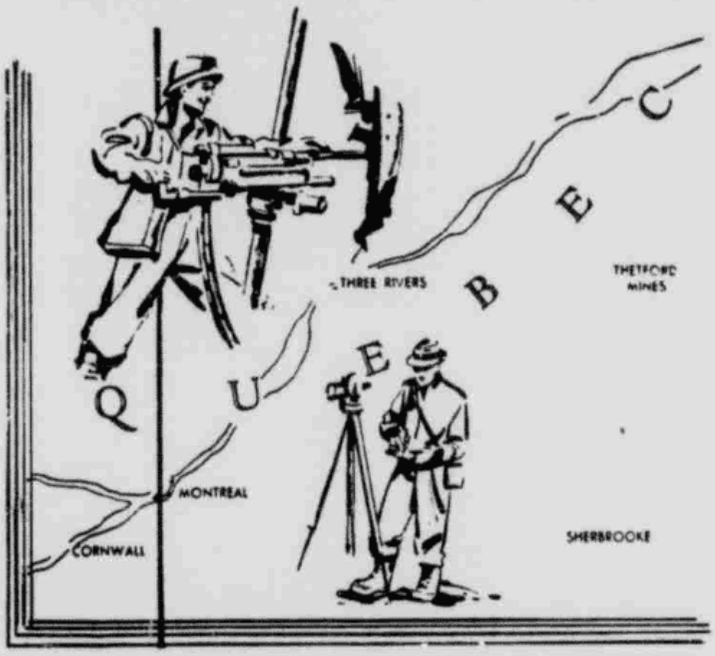
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ASBESTOS

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THE ALPINE PRESS ROLL MODIFICATION

This article describes modifications to press rolls on Mazza-type, asbestos-cement machines as developed by A.E. Alpine, Senior Vice President and General Manager, CAPCO, Birmingham, Alabama, the Asbestos Cement Pipe Division of Asarco Inc. Anyone interested in obtaining information regarding specific design details may do so by submitting their requests to ASBESTOS Magazine.

The development of machines for making asbestos-cement pipe has involved a number of significant steps in the following order:

1) Hatschek, an Austrian, revamped a paper machine to make felts of asbestos-cement on an accumulator roll.

2) Mazza, an Italian, added to this machine a section including a top felt which, through the action of a set of press rolls and related equipment, could exert pressure on the material being formed on the accumulator roll, increasing its density to a point where, after curing, it could be used as pressure pipe. Substituting mandrels of appropriate sizes for the accumulator roll resulted in a machine which could make a range of sizes of asbestos-cement pipe.

3) In an effort to simplify the Mazza machine, the top felt was eliminated, the press section was retained and the press rolls, now rubber-coated, made direct contact with the material being formed on the mandrel. In the earliest machines of this type, the press roll coatings were smooth.

4) Certain difficulties were encountered in the operation of machines equipped with smooth rubber press rolls due to a build-up of excess water between the rolls and other operating deficiencies. It was found that certain configurations of grooves, machined in the rubber working surfaces, would minimize or eliminate this problem and Johns-Manville Corporation patented certain such roll designs which are now being used on their machines and those of some licensees.

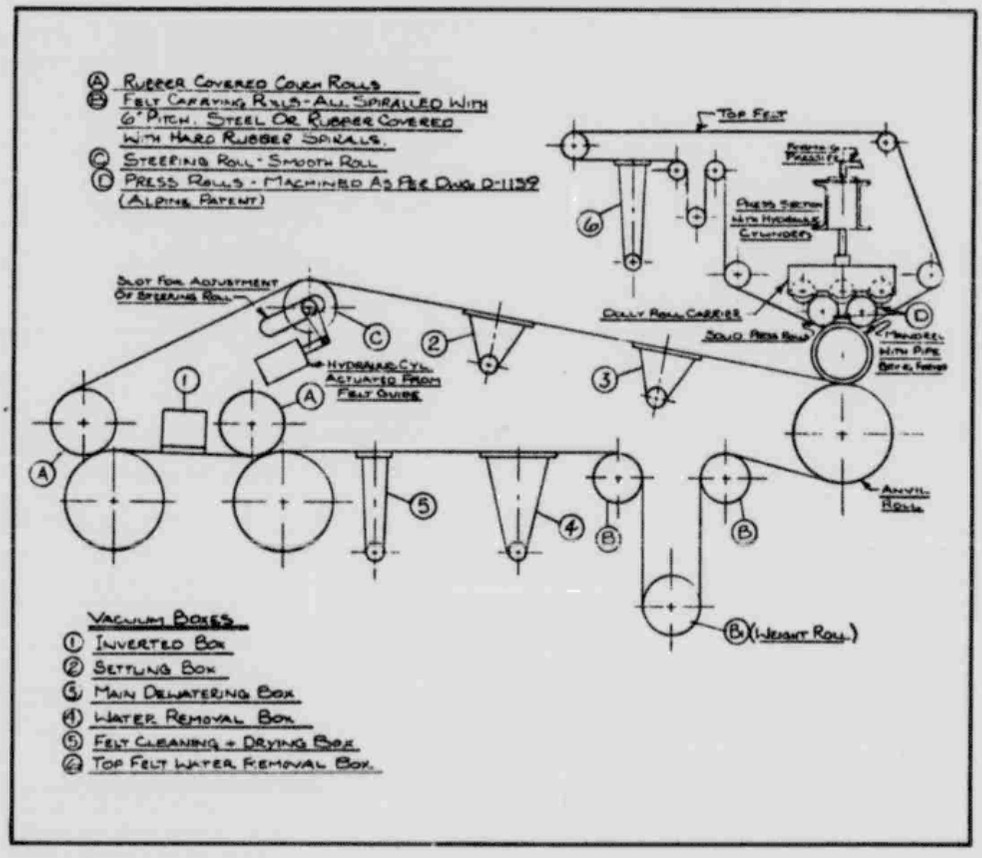
The merits of rubber roll vs. top felt machines are subject to debate. If a new machine were to be considered, the rubber roll machine would show substantial savings in initial cost. However, it

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is claimed that top felt machines, as most recently modified, can out-produce rubber roll machines using the same fiber blends. Furthermore, conversion of a Mazza-type machine to the rubber roll press section involves extensive modifications at such high costs that it is hardly worth considering. For these reasons, many operators of Mazza-type machines have little choice but to "make do" with what they have and try any way they can to improve it. As a result of this situation, the Alpine Press Roll Modification was developed and is finding wide acceptance among operators of Mazza-type asbestos-cement machines.

In a typical Mazza machine, the press section contains two steel rolls which force the top felt into contact with the material

Figure 1
Mazza Style Pipe Machine Having A Top Felt



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being formed on the mandrel. The forming pressure is supplied by hydraulic cylinders through dolly rolls and can be set at any desired level (*See Figure 1*). This pressure squeezes excess water from the material being formed. The top felt acts as a wick to carry this water away. With a new felt making small diameter pipe, the product will be satisfactory so long as the felt remains "open" to provide ample "wicking" effect. After some hours of operation, the felt starts to become plugged with asbestos fibers and cement particles and the "wicking" action suffers. Excess water then gathers between the press rolls to such an extent that it flows to the ends of the rolls, resulting in "wet end" pipe. The same condition occurs, even with new felts, when making large diameter pipe. The longer roll-up time required for such pipe generates excess water which is not readily disposed of by the "wicking" action of the felt.

There was good reason to believe that machine output and product quality could be improved by more rapidly disposing of this excess water. Since the felt was already working at close to full capacity, the only path open to improve drainage was through modification of some other part of the machine. The direction of felt travel caused most of the excess water to build up just ahead of the "back" press roll (the roll located nearest the vat section of the machine). The first attempt to improve drainage involved machining spiral grooves into the working face of this roll. While water removal was noticeably improved, other problems developed in operation and alternate patterns of grooving were tried. Eventually a pattern was developed which appeared to maximize drainage and which introduced no operational difficulties. After further refinement and application for worldwide protection, an European company was licensed to produce grooved rolls for new and existing machines and other asbestos-cement manufacturers using top felt machines were licensed to equip their machines with such rolls. Press rolls incorporating the optimum pattern are now in use on over 30 Mazza-type machines.

Pleased with the performance of the improved "back" roll, some operators modified the "forward" press roll in the same manner and achieved further improvement in operation. In practice, the grooved "back" roll in tandem with a smooth "front" roll seems to work well with felts having a synthetic content up to 65%, while

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machines using 100% synthetic felts perform best with grooved press rolls both "front" and "back".

Successful operation of the specially-grooved press rolls on pipe machines has led to attempts to apply the same principles to rolls in other locations on both pipe and sheet machines. For example, the support roll under the accumulator roll on a sheet machine was grooved to the same pattern as the press rolls but with disappointing results. After several attempts, a suitable pattern was evolved and a substantial improvement in machine output was achieved. When this configuration was transferred to the anvil (breast) roll of a pipe machine to improve drainage of the bottom felt, the results were less than satisfactory. Again a series of experiments finally produced a configuration which is giving excellent performance in service.

At the moment, three different configurations are in use with the most recent modification showing the most improvement. While the grooved design of the press rolls for the Mazza-type machine seems to have been optimized, it is believed that further experiments may improve the patterns used on anvil rolls and support rolls. It is obvious there is no simple theoretical method for arriving at the proper groove pattern for any given application. However, much has been learned through a lengthy process of trial and error and it is doubtful that further modifications will result in more than minor improvements in performance.

It should be understood that grooved press rolls cannot compensate for basic machine shortcomings or for inadequate maintenance or careless operation. However, as of now, what is thought to be the most productive pipe machine in the United States is operating with grooved rolls and utilizing the most economical fiber blends.

THE COVER: Photograph supplied by the author. In offering a suitable caption for the picture, Mr. Alpine suggests "The most suitable configurations for water removal grooves are specified after 'blend' and type of felt have been reviewed".

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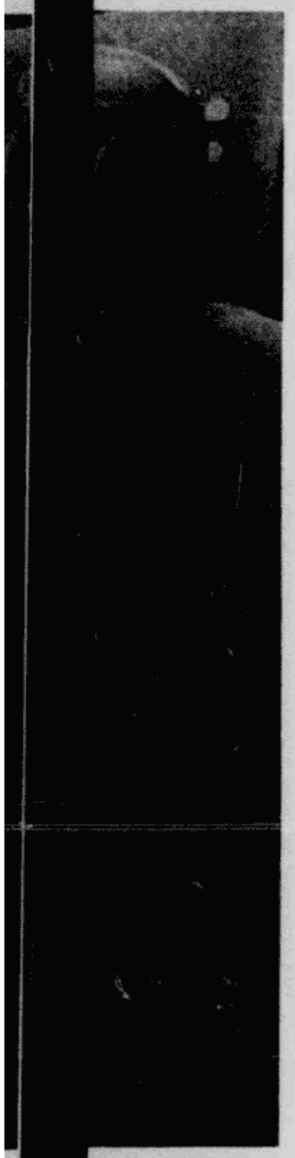
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FOR & ABOUT — COMPANIES

JIM WALTER RESISTS FTC ORDER

Jim Walter Corporation said it will pursue all available legal remedies to resist a ruling of the Federal Trade Commission which calls for the divestiture of certain businesses obtained in the 1972 acquisition of the Panacon Corporation. In 1974 the FTC filed a complaint alleging the Panacon purchase by The Celotex Corporation, a Jim Walter subsidiary, violated Section 7 of the Clayton Act. The recent ruling calls for the divestiture of both the Philip Carey Company (the roofing manufacturing division of Panacon) and Carey-Canadian Mines Ltd. (the Canadian asbestos mining subsidiary). Jim Walter believes the acquisition has served to intensify competition in the roofing materials business rather than weaken or constrain it as the FTC has found.

FELT BROCHURE FROM KENYON

"Improve Machine Performance Through Kenyon Technology" is the title of a new brochure issued recently by James Kenyon & Son, Bury, England. According to the manufacturer, the systems described represent the most effective means thus far devised for conditioning felts on both sheet and pipe machines. Topics covered include felt design and application; machine start-up, operation and performance measurement; felt tension; felt conditioning and cleaning; fan and very high pressure (VHP) needle jet showers; suction boxes and pump capacity; and ideal conditioning systems.

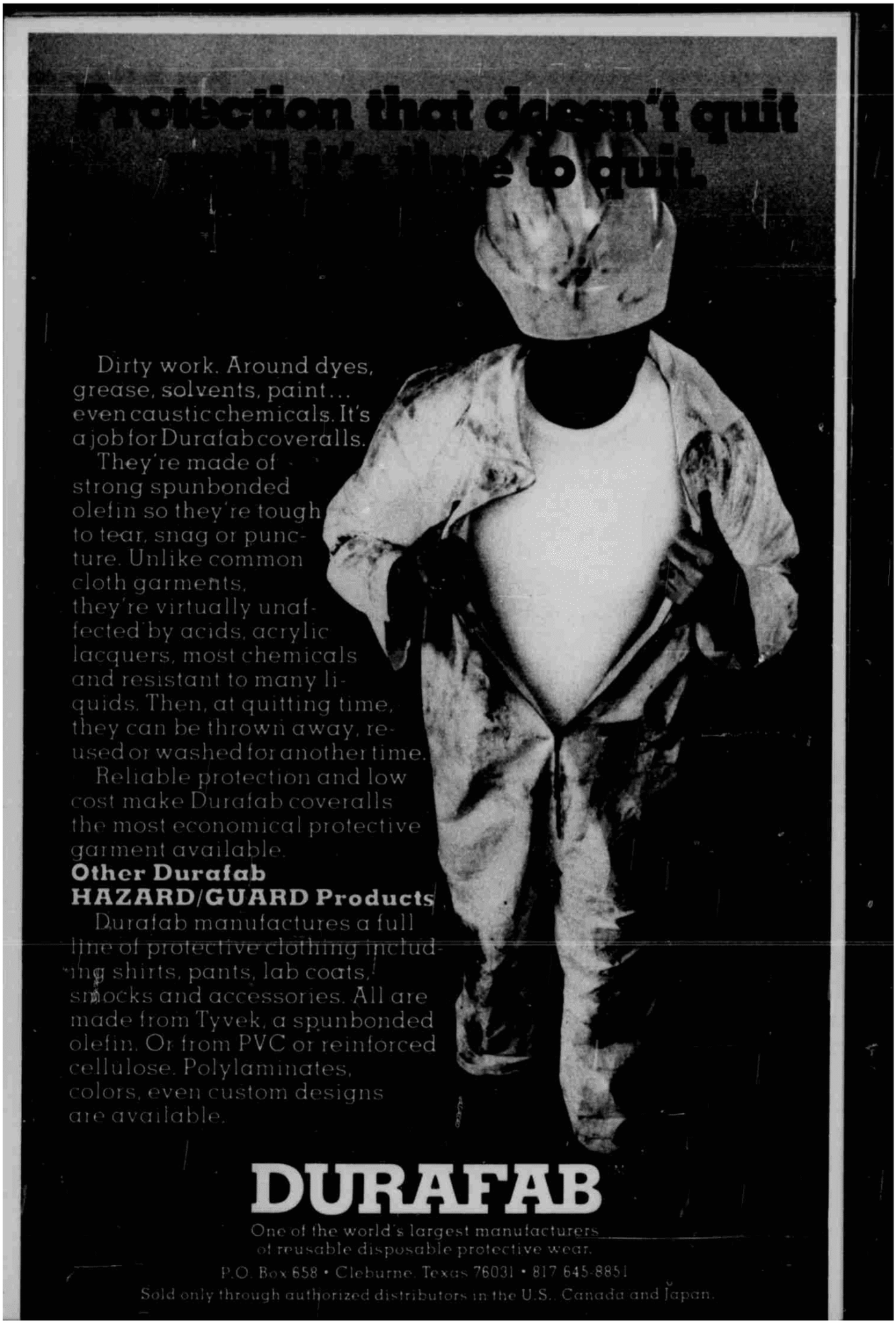
A/C PIPE EXPANSION IN MALAYSIA

United Asbestos Cement Ltd., a principal associated company of *Turner & Newall Ltd.*, announced plans to double production capacity by constructing a pipemaking plant valued at US$8.3-million close to the existing factory near Ipoh. The new facility is to have the capacity to annually produce 25,000 tons of pipe.

INVESTMENT OPPORTUNITY IN GHANA

An investor is being sought in Ghana for a proposed asbestos roofing sheet factory. Indications are there is a demand for this product on both the local and export markets. Please send inquiries to this Magazine.

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C-E PROCESS EQUIPMENT

The Process Equipment Group of *Combustion Engineering, Inc.*, has centralized and strengthened its overseas marketing operations by establishing European headquarters in Paris, France, it was announced by T. G. Phillips, Managing Director of *C-E Process Equipment-Europe*. Represented in the project are several Combustion Engineering companies including C-E Bauer, C-E Air Preheater, C-E Invalco and C-E Raymond. Also a complete line of wallboard plant equipment will be marketed under the Ehrsam trademark, as well as the Ehrsam line of bulk materials handling equipment.

C-E Bauer has moved into new international headquarters just a few months before its 100th anniversary. The new two-story, 24,000 square foot structure, located on Upper Valley Pike at Baker Road, on the western side of Springfield, Ohio, houses sales, engineering and administrative departments for C-E Bauer, the C-E Bauer Foundry and the Process Equipment Development Laboratory. C-E Bauer was originally organized in 1878 as Foos Manufacturing Company. Its first products were corn grinding and harvesting equipment. It was purchased as The Bauer Bros. Co. in 1968 by Combustion Engineering and became a wholly-owned subsidiary.

OFFER TO ACQUIRE CLARKSON

Thomas Tilling, Inc., the U.S. operating arm of *Thomas Tilling Ltd.*, a $1.2-billion British holding company which owns *DCE Vokes, Inc.*, Jeffersontown, Kentucky, and other interests worldwide, announced its intent to acquire *Clarkson Industries, Inc.*, Ridgefield, Connecticut. Products of the Clarkson Hoffman Air & Filtration Division include centrifugal exhausters, dust control systems, industrial vacuum cleaning systems and pneumatic conveying systems. DCE Vokes markets a complete line of fabric dust collectors.

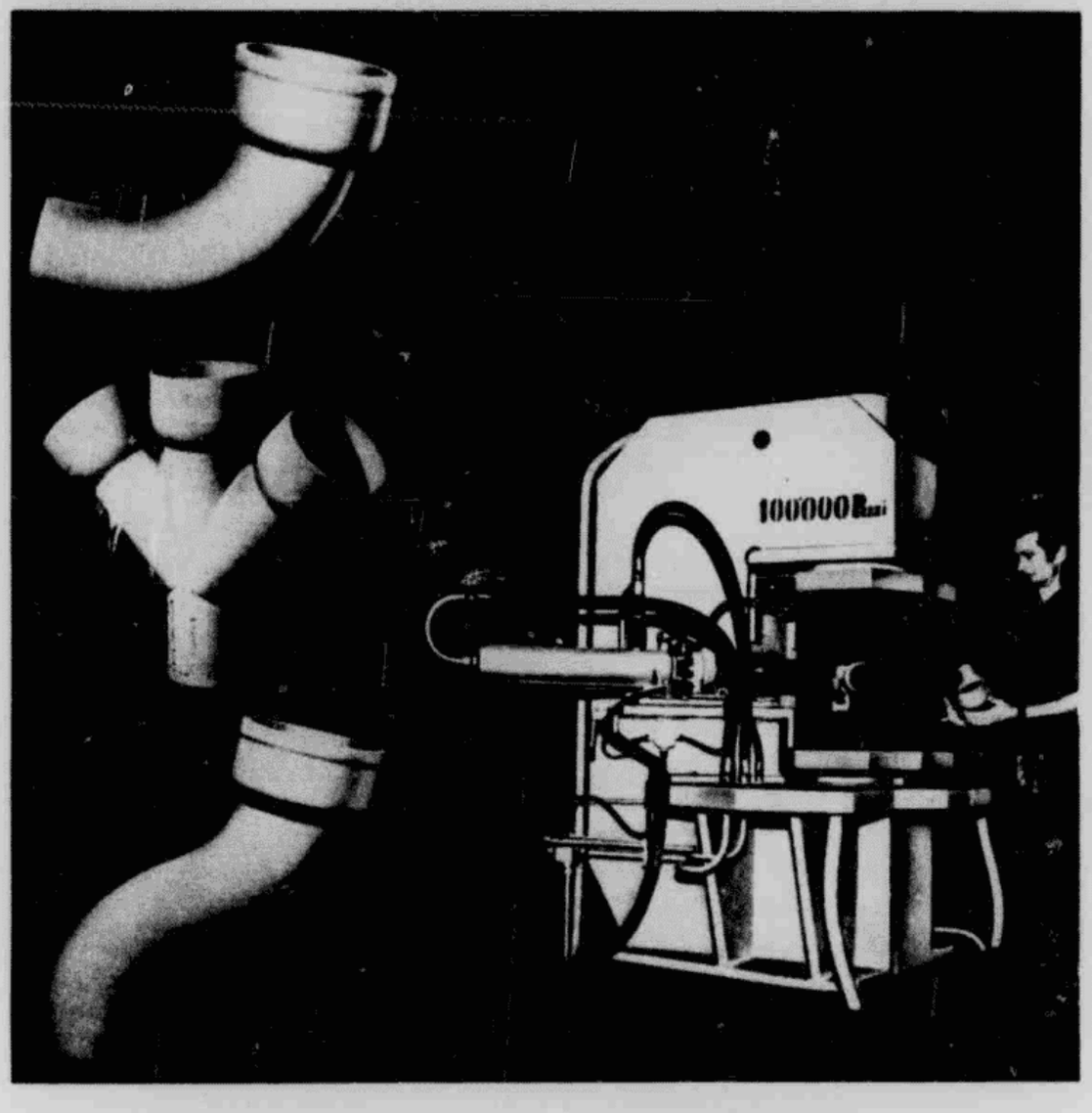
NEW BRAZILIAN FIRM FOR KOPPERS

Koppers Company, Inc., Muncy, Pennsylvania, has formed a company in Sao Paulo, Brazil. *Koppers Equipamentos, Ltda.*, will manufacture and market *Sprout-Waldron's* processing equipment for the feed milling, chemical, pure food and industrial markets and will offer the product line formerly made by Calibras Equipamentos Para Racoes, Ltds., a Brazilian feed processing equipment manufacturer. Sprout-Waldron is a part of Koppers' Engineered Metal Products Group.

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U.S. ENVIRONMENTAL MATTERS

ASBESTOS TRANSPORTATION PROPOSAL

The Materials Transportation Bureau, U.S. Department of Transportation, published a proposed rulemaking concerning the loading, shipping and handling of asbestos fiber. The proposal is in response to comments received on a portion of its advanced notice of proposed rulemaking published December 9, 1976, entitled "Environmental and Health Effects Materials". Several of the remarks were specifically directed to the idea that transportation regulatory controls for asbestos be established as soon as possible and on an individual basis. The proposal would require certain kinds of asbestos to be shipped by all modes in non-specification, rigid, airtight packagings such as metal or fiber drums, or in bags when shipped in closed freight containers. It applies only to the transporting of milled or crude asbestos fibers. In reviewing the potential inflationary and economic impacts associated with the proposed rule, MTB has determined that such impacts will be minimal. Comments must be received by May 2, 1978. [FR,3/2/78]

BATTELLE SEALANT STUDY

Researchers at Battelle's Columbus Laboratories are evaluating sealants used to inhibit asbestos fibers from entering the atmosphere, under a $117,000, one-year study for the U.S. Environmental Protection Agency. The sealants under study are used to cover sprayed-on, asbestos-containing materials in schools and commercial buildings. According to Battelle, asbestos fibers can enter the air when the sprayed-on material begins to deteriorate through vibration and air movement, from the accidental impact of various objects against the material, or from removal of the material during repair work.

INGESTION STUDY

An ongoing study of the biological effects of ingested asbestos is being conducted for the National Institute of Environmental Health Sciences by Hazelton Research Laboratories and the Illinois Institute of Technology Research Institute. A test group of rats is currently receiving Chrysotile, Tremolite and Crocidolite asbestos. In another group, there have been no indications of increased mortality or other biological effects after 22-43 weeks of feeding Chrysotile and Amosite to hamsters. [AIA/NA]

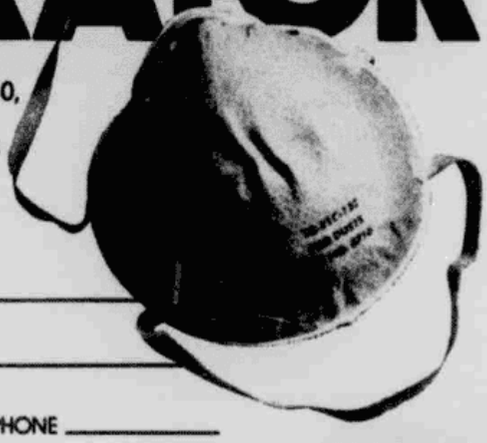
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MARKET CONDITIONS

GENERAL BUSINESS

Late March brought an end to the long coal strike and to the inclement weather which had put a damper on first quarter economic activity. It is generally felt that the Country should quickly recover the ground lost during this period and the effect on Gross National Product for the year will be slight. However, other happenings and statistics continued to give mixed signals as to the future of business.

Unemployment has moved somewhat lower, approaching the 6% level, but analysis of the statistics indicates the drop of recent months has been due to slowing growth of the labor force rather than any great upsurge in new hirings. New car sales snapped out of the doldrums and hit record levels in the mid-March period. Analysts expect improvement in this market to continue but at a less ebullient pace. Aside from new cars, retail sales have shown signs of weakening and earnings reports of some large retailers have been disappointing. Housing starts have slipped badly after reaching record highs a few months ago and some experts feel this indicates a topping out of the housing boom.

The future of capital spending remains an enigma because of a marked divergence between spending plans as reported to the U.S. Department of Commerce and actual appropriations for such spending. While spending plans have shown practically no increase recently, appropriations in the fourth quarter increased about 7% and orders for new equipment and construction have been growing for some time.

The dollar continued its decline on world currency markets and inflation again reared its ugly head at home. Led by a hefty jump in food prices, the Consumer Price Index rose at annual rates of 9.6% in January and 7.2% in February, threatening a return to double digit inflation. Some rumblings in Washington indicate an increasing awareness that inflation is a problem which is not going away in the absence of some positive actions on the part of our lawmakers. For example, some very powerful Congressmen now favor a cutback in the recently enacted Social Security tax increases in view of the inflationary impact of this tax. Some most encouraging words on the subject came from G. William Miller, new Chairman of the Federal Reserve Board, who recently said "I hope we have the courage to make inflation our highest priority for domestic economic policy. We're going to be tested now if we have the will." Mr. Miller thus joins several other high Administration officials in urging the President to initiate a strong fight against inflation. Specific proposals include the tax reduction cited, limiting Federal pay increases and holding a lid on the deficit for fiscal year 1979. Others in the Administration are believed to oppose such measures on grounds that the political problems they would create or intensify would outweigh their beneficial effects.

While the President has postponed presentation of his newest proposals to curb inflation, there is now a growing hope they will be more substantive than any he has put forth thus far.

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PRODUCTION—IMPORTS—EXPORTS

WOODSREEF PRODUCTION

Chrysotile Corporation of Australia Pty. Ltd. produced 34,029 metric tons of asbestos during the *Six Months Ended December 1977* at its Woodsreef Asbestos Mine, Barraba, New South Wales, 1,569.5 tons more than in the comparable period a year earlier. Total output since the mining/milling complex began operating in *February 1972 through December 1977* amounted to 279,196.5 tons.

CANADIAN FIBER SHIPMENTS

Primary Canadian Producers' shipments of asbestos (including tonnage for own use) amounted to 96,009 short tons in *January 1978:* 77,677 tons from Quebec plants and 18,332 tons from plants in Newfoundland, Ontario, British Columbia and the Yukon. The total for January 1977 was 121,856 tons: 97,824 tons from plants in Quebec and 24,032 tons from plants in the other four Provinces. [Statistics Canada]

CYPRUS FIBER PRODUCTION

Production of asbestos in Cyprus for the *Year 1977* reached 40,595 short tons valued at £5,161,418, higher than the prior year by 2,520 tons and £1,333,392. Comparable production totals for past years are 38,075 tons valued at £3,828,026 in 1976, 27,930 tons valued at £2,127,054 in 1975, 36,579 tons valued at £2,085,035 in 1974, 31,480 tons valued at £1,694,383 in 1973 and 26,124 tons valued at £1,560,277 in 1972. [Mines Department, Nicosia]

TAIWAN ASBESTOS

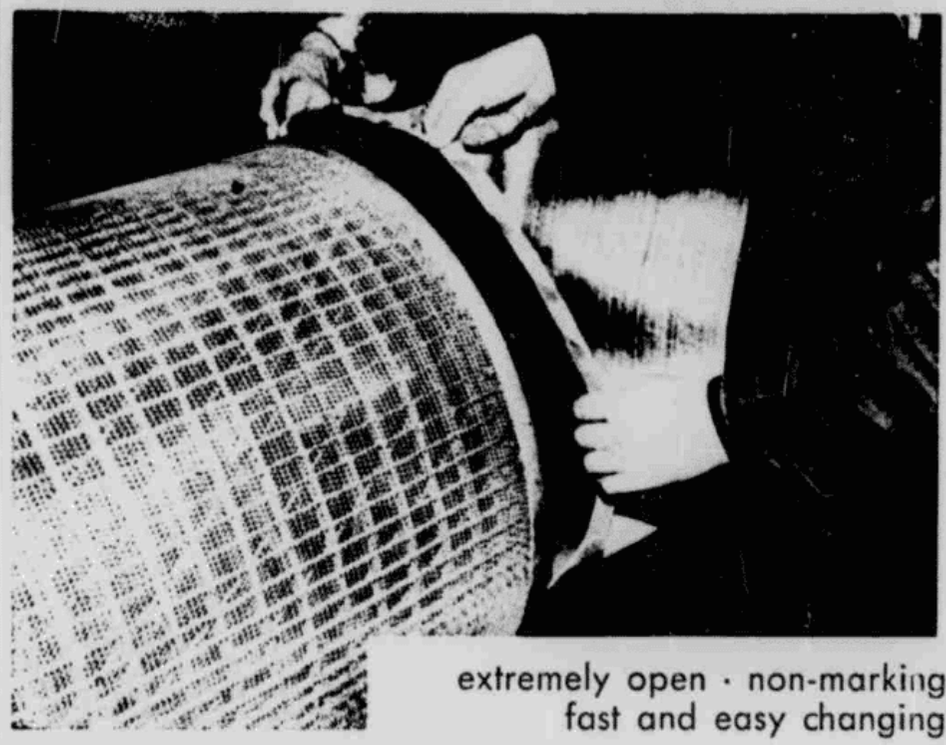
Taiwan *produced* 2,453 metric tons of asbestos in the *Year 1977* compared with 2,491 tons in 1976, 1,737 tons in 1975, 2,957 tons in 1974 and 5,308 tons in 1973. The Country *exported* a minimal 1.6 tons of asbestos in 1977 and *imported* 25,343 tons. Domestic production is of the short-fiber variety and friable and is mostly used as a filler and in heat insulating compounds and plastics. [Ministry of Economic Affairs, Taipei]

SOUTH AFRICAN OUTPUT & EXPORTS

Production of asbestos for the *First Half of 1977* totaled 180,146 metric tons, 7,435 tons more than in the same period a year earlier. The breakdown for the latest period is: 88,287 tons of Cape Blue (up 6,015 tons), 56,368 tons of Chrysotile (up 4,728 tons), 34,941 tons of Amosite (down 3,138 tons) and 550 tons of Anthophyllite (down 170 tons)....*Exports* for the *First Half of 1977* were valued at R67,062,950, up R17,530,859 over the first six months of 1976. By variety of asbestos, the values for the latest half-year are: R41,742,590 for Cape Blue (up R11.3-million), R11,520,197 for Chrysotile (up R4.7-million), R13,776,069 for Amosite (up R1.5-million) and R24,094 for Anthophyllite (down R35,920). [Department of Mines, Braamfontein]

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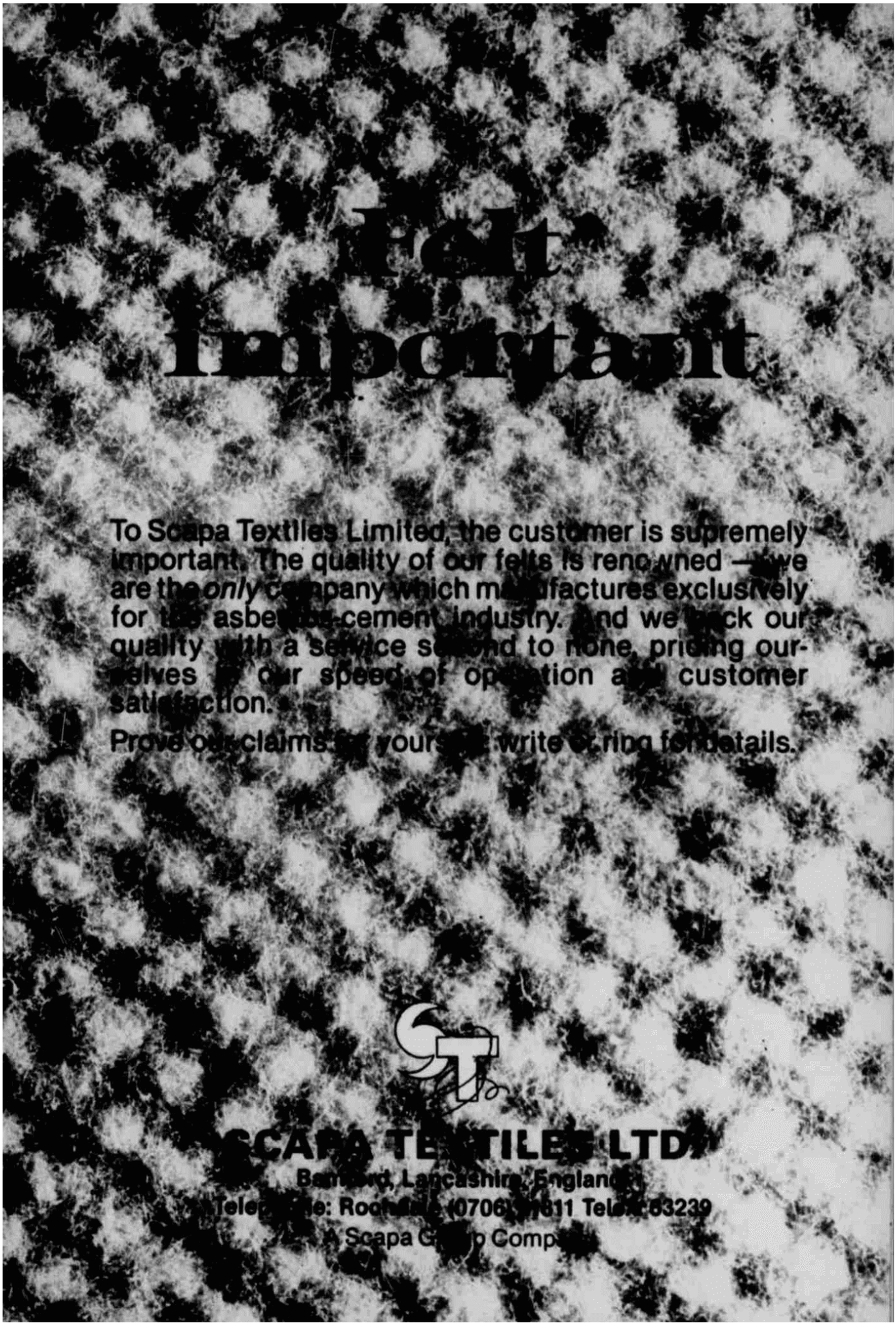
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IMPORTS INTO THE UNITED STATES

From: U.S. Bureau of the Census

UNMANUFACTURED ASBESTOS:		DECEMBER 1977	
Amosite, Republic of South Africa	s.tons	96	$ 22,644
Crocidolite (Blue), Canada	s.tons	56	8,772
South Africa	s.tons	633	362,156
Chrysotile Crudes, South Africa	s.tons	213	130,535
Chrysotile Spinning Fibers, Canada	s.tons	792	670,733
Chrysotile, Other, Canada	s.tons	41,519	9,289,001
Other Crudes & Fibers, Canada	s.tons	686	137,668
South Africa	s.tons	72	46,694
USSR	s.tons	1,088	314,470
		45,155	$ 10,982,673
MANUFACTURED ASBESTOS PRODUCTS:			
Asbestos yarn, cloth, tape, etc.	Lb	777,126	$ 1,222,883
A-C pipes, tubes & fittings	Lb	723,200	82,749
Other asbestos-cement articles	Lb	3,242,325	632,074
Other asbestos articles		..	531,740
			$ 2,469,446
UNMANUFACTURED ASBESTOS:			YEAR 1977
Amosite, Canada	s.tons	1	$ 570
South Africa	s.tons	582	259,654
Crocidolite (Blue), Canada	s.tons	71	23,414
South Africa	s.tons	11,968	5,473,140
Chrysotile Crudes, Canada	s.tons	134	65,576
Rhodesia	s.tons	2,451	2,368,050
South Africa	s.tons	3,810	2,222,507
Chrysotile Spinning Fibers, Canada	s.tons	6,685	6,223,838
South Africa	s.tons	3,764	308,450
USSR	s.tons	2,190	443,348
Chrysotile, Other, Canada	s.tons	551,465	123,225,926
Mexico	s.tons	3,395	5,637
South Africa	s.tons	182	126,535
USSR	s.tons	166	49,454
Other Crudes & Fibers, Canada	s.tons	10,520	1,713,517
Mexico	s.tons	220	133,000
Rhodesia	s.tons	345	199,195
South Africa	s.tons	2,178	1,146,138
Sweden	s.tons	1	495
Taiwan	s.tons	312	6,976
USSR	s.tons	6,582	1,384,166
		607,022	$145,379,586
MANUFACTURED ASBESTOS PRODUCTS:			
Asbestos yarn, cloth, tape, etc.	Lb	11,364,276	$ 16,403,903
A-C pipes, tubes & fittings	Lb	17,839,103	1,995,067
Other asbestos-cement articles	Lb	46,285,010	7,611,670
Other asbestos articles		..	5,856,239
			$ 31,866,879


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EXPORTS FROM THE UNITED STATES

From: U.S. Bureau of the Census

		DECEMBER 1977	
UNMANUFACTURED ASBESTOS:			
Fibers not further processed than beaten, washed or graded to length	s.tons	1,709	$ 675,519
Waste and refuse.....	s.tons	1,016	245,732
		2,725	$ 921,251
MANUFACTURED ASBESTOS PRODUCTS:			
A-C shingles & clapboard.....	Lb	3,958,182	$ 708,691
Other a-c fiber-cement articles	Lb	3,032,047	484,042
Gaskets	Lb	260,396	230,191
Packing.....	Lb	432,519	1,284,418
Heat or sound insulation		..	272,054
Textiles & yarns	Lb	1,441,202	1,204,011
Protective clothing		..	66,185
Mfrs. other than friction materials.....		..	1,524,030
Clutch facings & linings for auto. use ...	No	120,382	172,670
Other clutch facings & linings	No	5,649	40,680
Brake linings for automotive use	Lb	561,496	548,775
Other brake linings	Lb	232,749	452,084
			$ 6,987,831

		YEAR 1977	
UNMANUFACTURED ASBESTOS:			
Fibers not further processed than beaten, washed or graded to length	s.tons	17,906	$ 7,432,603
Waste and refuse.....	s.tons	19,484	4,267,802
		37,390	$11,700,405
MANUFACTURED ASBESTOS PRODUCTS:			
A-C shingles & clapboard.....	Lb	14,412,996	$ 2,483,879
Other a-c fiber-cement articles	Lb	48,908,198	13,200,526
Gaskets	Lb	2,542,722	2,776,634
Packing.....	Lb	5,025,841	12,162,754
Heat or sound insulation		..	4,670,896
Textiles & yarns	Lb	17,564,704	11,323,141
Protective clothing		..	1,311,514
Mfrs. other than friction materials.....		..	15,321,730
Clutch facings & linings for auto. use ...	No	765,707	1,703,418
Other clutch facings & linings	No	344,573	426,179
Brake linings for automotive use	Lb	10,171,095	9,424,360
Other brake linings	Lb	2,590,747	3,543,887
			$78,348,918

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15033 CASALE MONFERRATO (Italia)

EXPORTS FROM CANADA

From: Statistics Canada

DECEMBER 1977
Short Tons

UNMANUFACTURED ASBESTOS:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	905	65,178	14,992
Eastern Europe	..	705	3,196	340
Middle East	..	..	4,768	1,129
Africa	..	..	300	750
Asia	..	431	11,004	9,519
Oceania	..	..	5,445	350
So. & Cen. America & Antilles	..	47	5,828	2,128
United States	..	833	9,023	32,515
	..	2,921	104,742	61,723

The total amount of unmanufactured asbestos exported in *December 1977* was 169,386 short tons, valued at $73,816,000.

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos cloth, dryer felts & sheets	$ 271,000
Asbestos brake linings & facings	340,000
Asbestos-Cement building materials	1,906,000
Other basic asbestos products	641,000
	$ 3,158,000

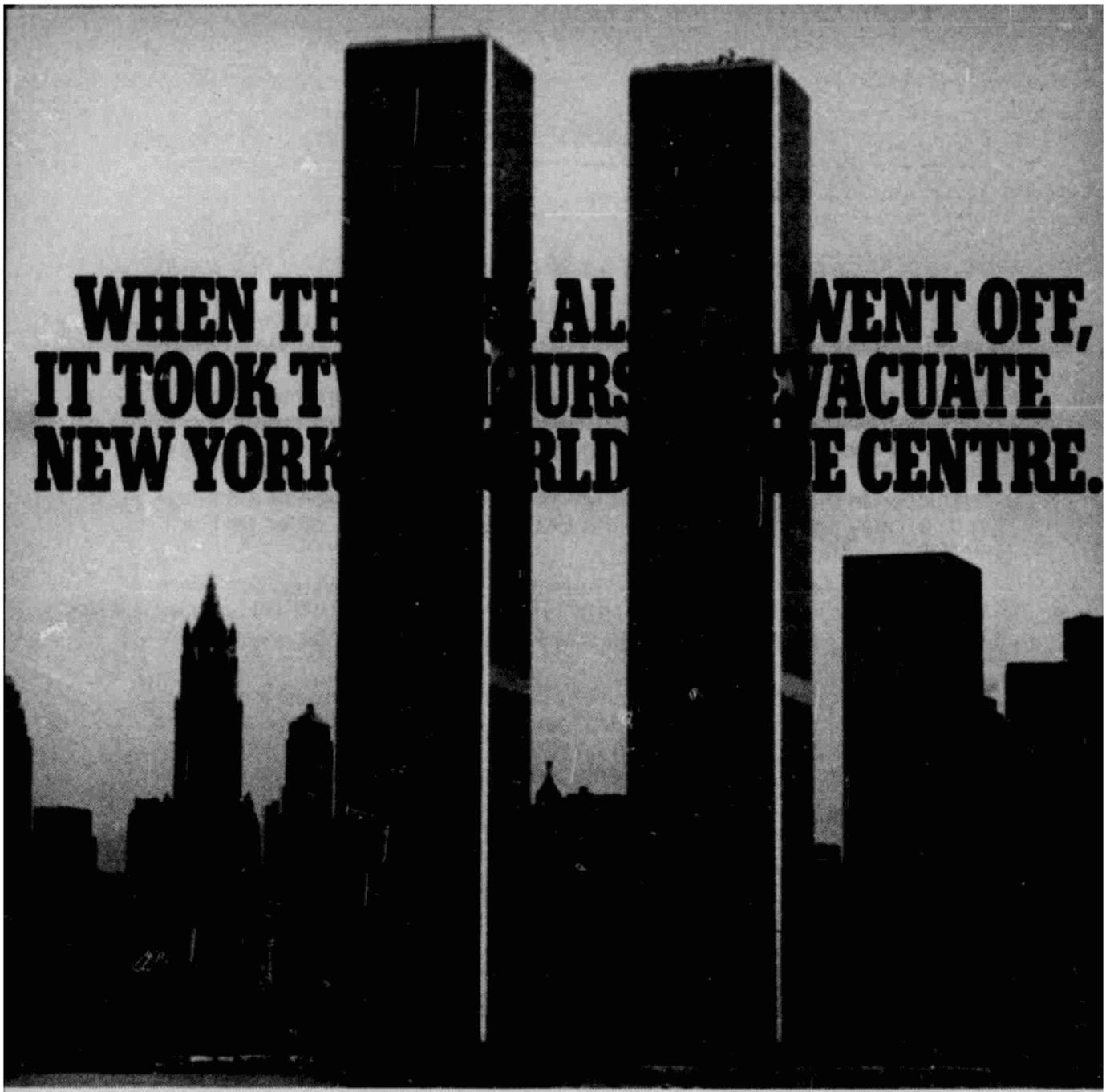
YEAR 1977

UNMANUFACTURED ASBESTOS:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	10,172	296,049	163,925
Eastern Europe	..	2,796	29,084	4,862
Middle East	..	198	27,156	5,046
Africa	..	..	19,909	7,885
Asia	..	2,977	98,861	126,330
Oceania	..	7	64,704	8,894
So. & Cen. America & Antilles	..	1,866	88,111	35,731
United States	1	7,841	128,120	429,494
	1	25,857	751,994	782,167

The total amount of unmanufactured asbestos exported in the *Year 1977* was 1,560,019 short tons, valued at $553,284,000.

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos cloth, dryer felts & sheets	$ 1,242,000
Asbestos brake linings & facings	3,337,000
Asbestos-Cement building materials	15,010,000
Other basic asbestos products	5,712,000
	$25,301,000



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THE MINING SCENE

WOODSREEF MINES LTD.

In its report for the quarter ended January 31, 1978, *Woodsreef Mines Ltd.* stated that production at its asbestos mines at Barraba and Baryulgil, Australia, totaled 13,726 metric tons and shipments reached 11,056 tons. The loss for the quarter was A$1,793,000 compared with a loss of $501,000 in the corresponding three months a year ago. Revenue from production in the latest quarter was $4,174,000 against $5,088,000 in the quarter ending January 31, 1977. However, it should be pointed out that revenue from production in the latest period was lower due to a combination of a change from a 7-day week to 6 days at the Barraba Mine and to other pertinent factors.

The exchange rates for the Australian and Canadian dollars were A$1.00 to C$1.12 on January 31, 1977, and A$1.00 to C$1.27 on January 31, 1978. The result of this change was to reduce the average revenue per ton of fiber 13%.

Current world economic conditions resulted in a depressed market for virtually all minerals. Asbestos has not suffered as drastically as some minerals although there has been a reduced demand and this has made it necessary to sell fiber on less advantageous terms.

The problems experienced with major mining equipment at Barraba through 1977 have become much more acute since October, causing a shortfall in movement of waste rock with the result that alternative sources of ore are not always available for blending purposes. This, in turn, has reduced the ability of the Barraba Mill to produce fiber at capacity.

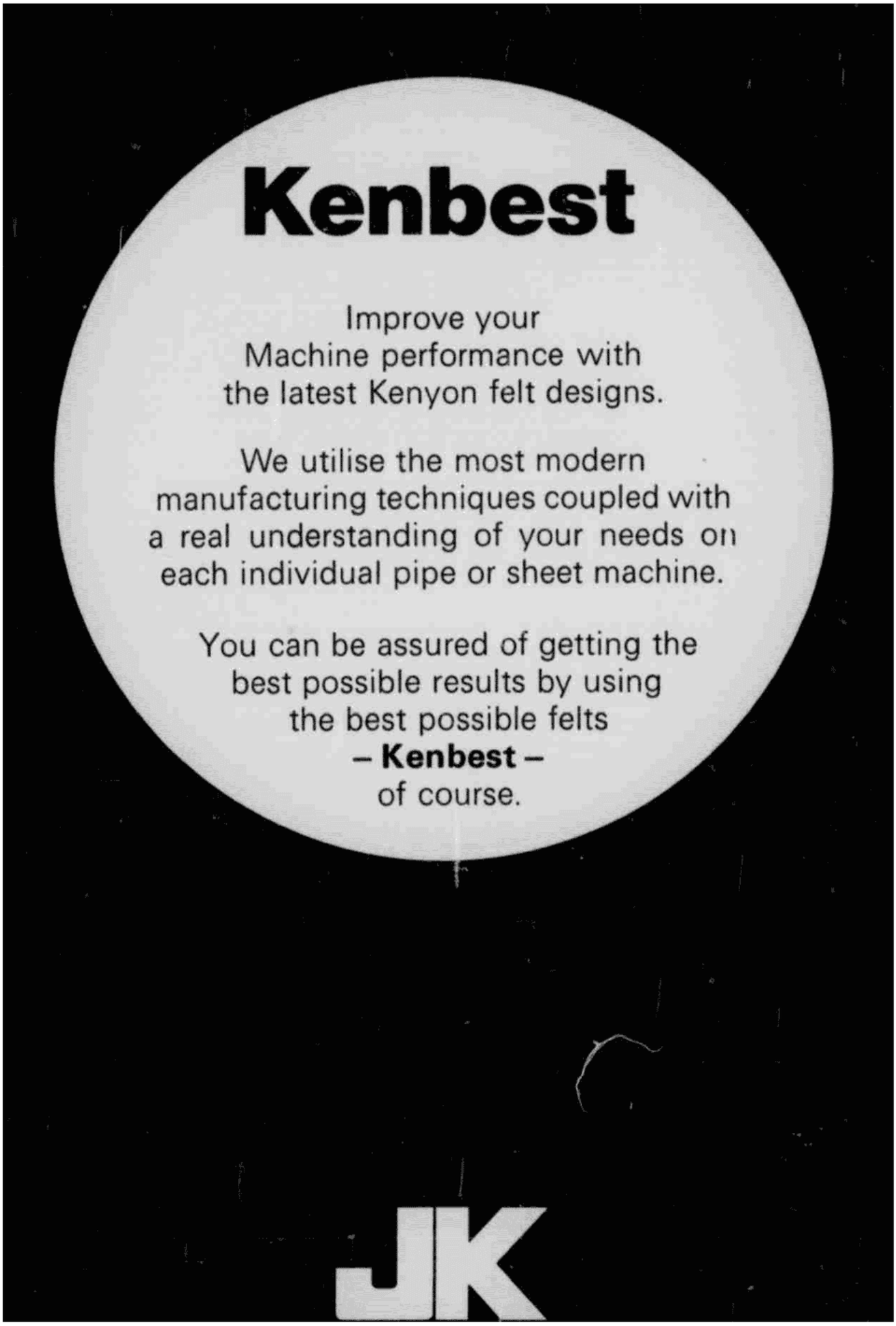
Because of the reduction in the sales value, Woodsreef Mines undertook a further revaluation of its fiber stock inventories. This resulted in a reduction of $144,000 in the value of fiber stocks. As of January 31, 1978, fiber stock inventories stood at $5,840,000.

Woodsreef Mines expects the second quarter of its financial year to show some improvement but because the major effects on revenue have been the Canadian dollar exchange rate and world economic conditions, it is not possible to predict any dramatic turnaround in 1978. However, the company is currently carrying out research and development work on two new processes which could lead to a significantly increased yield of fiber from both the Barraba and the Baryulgil ores. Results to date are most encouraging.

KENYAN ASBESTOS

Last year the Governments of Kenya and Canada signed a US$1-million development agreement to provide aid to the Kenyan Department of Mines and Geology for an airborne geophysical survey of proven but as yet unmapped mineral deposits. Under the agreement, the Canadian firm of Terrasurveys was to conduct the surveys over the coastal mineral and gem stone belt and over selected parts of Nyanza and Western Provinces. In addition,

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ground geological surveys were to be taken by a joint Austrian-Kenyan team covering the Taita-Taveta area. Recent information received from Kenya's Ministry of Natural Resources indicates that neither of these projects will be concerned with asbestos since known asbestos occurrences in Kenya had previously been examined and evaluated. The *Makinyambu Anthophyllite Asbestos Deposit* in the Taita Hills was estimated at 300,000 tons in 1953. The mineral is mostly as mass fiber with some cross fiber. Another fibrous Anthophyllite deposit at *Kaptument* was mined from pockets and lenses, some as long as 80 feet. This was Kenya's major asbestos producer in the 1950's.

McADAM/QUEBEC JOINT PROJECT

While awaiting developments pertaining to its main Roberge Lake asbestos property in Quebec, under option to Riocanex, *McAdam Mining Corporation* will undertake further drilling on another nearby asbestos project. Under an agreement with the *Quebec Department of Natural Resources*, McAdam will begin a $180,000 exploration program at its 96-claim property under option from Campbell Chibougamau Mines Ltd. on Lake Chibougamau, just five miles west of the Roberge project. The Department will share 50% of the costs. Three holes had been put down last year by McAdam with encouraging results and management is, therefore, anxious to carry out the additional program. If an orebody is found, a new company would be formed with McAdam holding a 25% interest, the Quebec Government or one of its agencies holding 25% and Campbell Chibougamau having 50%. The Provincial Government's participation in the McAdam program is part of its five-year exploration program for Northwestern Quebec, where it plans to spend up to $65-million, in participation with the private sector, on general mineral exploration. [The Northern Miner]

Still Available . . . .

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]

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

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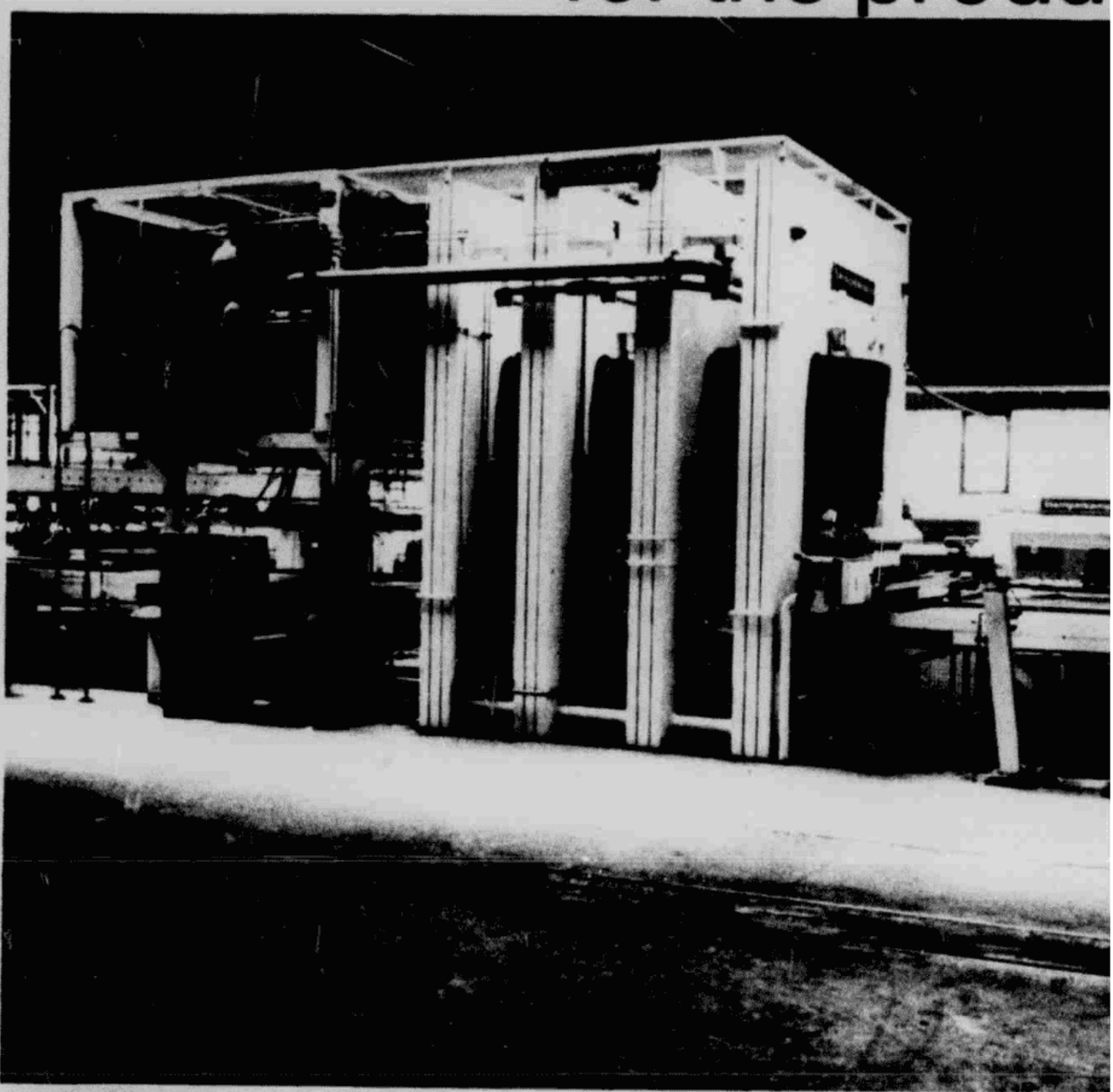
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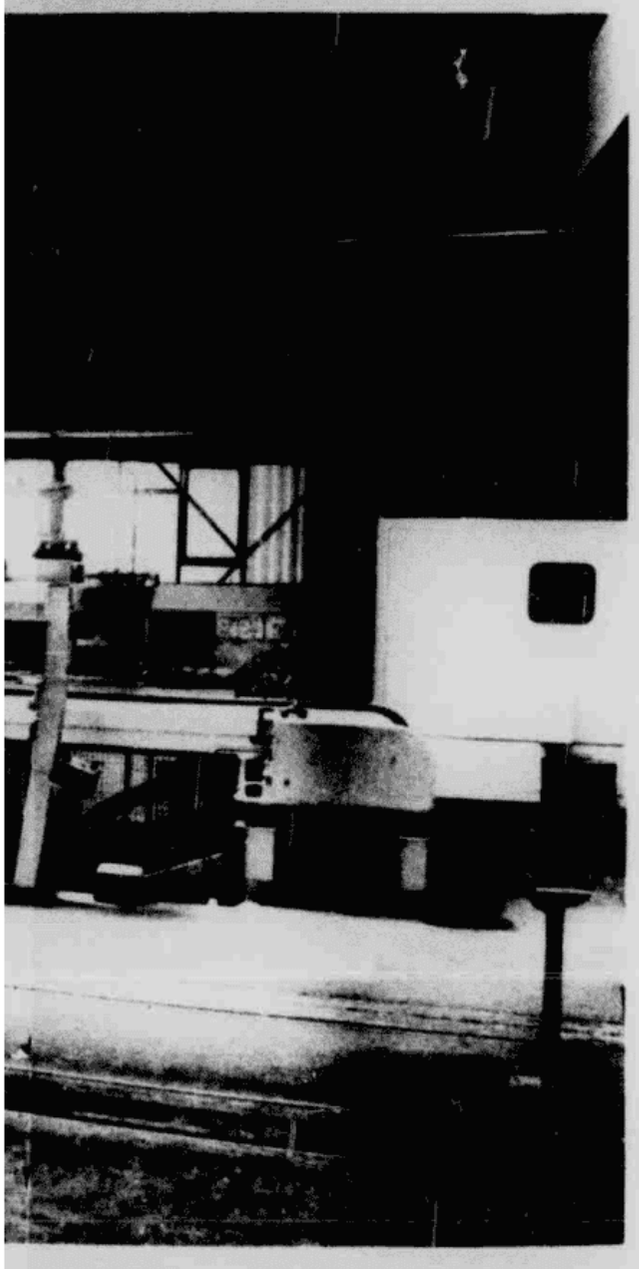
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asbestos-cement pipes

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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 January 1, 1978 *Canadian Dollars*

No. 2—Crude		2165.00
No. 3—Spinning Fiber	965.00—	1501.00
No. 4—Asbestos Cement Fiber	642.00—	945.00
No. 5—Paper Fiber	323.00—	501.00
No. 6—Paper and Shingle Fiber	307.00—	311.00
No. 7—Shorts	107.00—	213.00

CASSIAR *Per ton of 2000 Lbs., F.O.B. North Vancouver, B.C.*
As of January 1, 1978 *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	960.00
AK	—Asbestos Cement Fiber/Canadian Group 4	810.00
AS	—Asbestos Cement Fiber/Canadian Group 4	705.00
AX	—Asbestos Cement Fiber/Canadian Group 4	610.00
AY	—Asbestos Cement Fiber/Canadian Group 5	430.00
AZ	—Asbestos Cement Fiber/Canadian Group 6	330.00
	Clinton Mine	
CP	—Asbestos Cement Fiber/Canadian Group 4	760.00
CT	—Asbestos Cement Fiber/Canadian Group 4	680.00
CY	—Asbestos Cement Fiber/Canadian Group 5	430.00
CZ	—Asbestos Cement Fiber/Canadian Group 6	330.00

VERMONT *Per Ton of 2000 Lbs., F.O.B. Morrisville, Vermont*
As of January 1, 1978 *U.S. Dollars*

Grade 4T—Fiber	$ —$	501.00
Grades 5D thru 5R—Fiber	330.00—	387.00
Grade 6D—Waste	—	239.00
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		1166.00
Hooker No. 2—in 100-lb. woven polypropylene bags		583.00

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ANNUAL REPORTS—1977

TURNER & NEWALL LTD.

Formed in 1920, the international Turner & Newall Group operates via five operating divisions: plastics and industrial materials, automotive components, construction materials, asbestos mining and fibre distribution, and chemicals. The policy of the management is to selectively increase its product range in certain areas. Non-asbestos products now constitute nearly half of worldwide sales and over 55% of sales in European markets. Results for the year 1977 were well ahead of the previous year with sales rising 24% to £413,792,000, trading profit up 31% to £44,981,000, profit before taxation increasing 28% to £45,251,000 and profit attributable to stockholders, before extraordinary items, up 28% to £25,868.000. By operating division, contributions to sales were 32.5% from plastics and industrial materials, 28% from automotive components, 28% from construction materials, 9% from asbestos mining and fiber distribution and 2.5% from chemicals. The strengthening of sterling in relation to other currencies adversely affected the sterling value of profits earned by exports, overseas subsidiaries and associates. Trading profits of European companies increased to £25-million, up 28.6%, despite difficult operating conditions and a sluggish European market, particularly in the second half of the year. Direct and indirect exports played a vital part with direct exports increasing 30.5% to £93,683,000.

Turner & Newall executed eleven acquisitions during 1977, the two largest being the purchase of a 52% interest in Philip A. Hunt Chemical Corporation in the United States and the outright acquisition of Storey Brothers and Company Ltd. in the United Kingdom. Important additions were also made to the automotive components side of T&N's business in the U.K., the U.S. and continental Europe. Since the year end, the Group acquired FIAAM Filters SpA, an Italian company which produces automotive filter products.

As an international company operating in many countries, T&N states it is bound by the laws of its host countries but it views with concern the increasing attempts by Governments for political or racial reasons to extend their jurisdictions beyond their borders, thus restricting free trade between the countries of the world.

ASBESTOS & GLASS TEXTILES—With the exception of the U.S., the economies of leading industrialized nations grew slowly in 1977, thereby affecting demand for chemicals, plastics and related materials with the notable exception of glass fiber reinforcements for which demand remained strong throughout the year. Nevertheless, the Plastics and Industrial Materials Division increased sales revenue 22% and trading profit 34%. Sales of *TBA Industrial Products Ltd.* rose 15% in value and trading profit increased 34%. The industrial textiles business, which now embraces the manufacture and

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sale of a wide range of asbestos and substitute textiles, was similar to 1976 with export sales increasing by the end of the year. Demand for reinforced plastics was adversely affected by strikes in the automotive industry, but still showed a marked improvement compared with 1976. Demand continued strong for DURESTOS phenolic moulding materials and DURAFORM vinyl sheet.

AUTOMOTIVE COMPONENTS—Demand from European original equipment manufacturers and from the worldwide automotive replacement market remained strong. Industrial sales were satisfactory against the background of a slow economic recovery.

CONSTRUCTION MATERIALS—Increased exports and operational economies again were the principal factors enabling European firms to achieve a welcome profit improvement although trading conditions, especially in the U.K., prevented an adequate return. Results for *Newalls Insulation Co. Ltd.* improved despite low demand for insulation products and the disruptive effect of industrial action. Although the total sales of *TAC Construction Materials Ltd.* increased over £7-million, the continuing recession in the U.K. construction industry restrained demand for building materials and pipes. Exports increased more than 44% and amounted to 27% of total sales, resulting in TAC being granted the Queen's Award for Export Achievement. . . .In Canada, Atlas Asbestos Co. Ltd. continued to feel the effects of the low level of industrial construction, a difficult political condition in Quebec and the restriction of funds for municipal work. Nevertheless, improvements were noted in orders for building and insulation products and a reasonable pipe volume was maintained by shipments to Western Canada. The small building materials plant in British Columbia earned a higher profit than in 1976. . . .Following an improvement in the supply of imported asbestos fiber into India, production increased and profit for Asbestos Cement Ltd. rose 5%. A synthetic fiber, partially substituting asbestos, was successfully introduced into the manufacture of asbestos-cement products.

ASBESTOS MINING & FIBER DISTRIBUTION—With little or no growth in the economies of most major industrialized countries, demand for asbestos fiber weakened in the second half of the year and prices came under some pressure. Nevertheless, all mines owned by or associated with T&N sold their production at satisfactory prices and profits increased substantially. . . . The Bell Asbestos Mine in Canada operated at better levels and increased profits. It was, however, affected by geological problems in the underground mining facility and by the disruptive effects of major capital expenditures. . . . Havelock Asbestos Mines, Swaziland, maintained operations at a high level of efficiency and earnings increased significantly. After the end of the year, agreement in principle was reached with the Swazi Nation whereby Swaziland will acquire an additional 10% interest in the equity share capital of the company so that it and T&N will become equal partners. Under the pact, Havelock's mining lease will be extended for a period of 20 years to the year 2006 and the company will secure a larger area for mining development and exploration. . . .Dublin Consolidated Asbestos Mines, Republic of South Africa, continued to experience mining difficulties.

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RAYBESTOS-MANHATTAN, INC.

Continuing sales in 1977 for Raybestos-Manhattan, Inc., were $250,977,000, which represents a 9.1% increase over 1976. Net income after tax from continuing operations was $9,133,000 or $4.99 per share, an increase of 10.9% after restatement for a 10% stock dividend. Friction materials sales, which represent 76.7% of R/M's continuing sales, increased 9.4% to $192,395,000. Sales of other industrial products, which amount to 15% of total sales volume and include asbestos textiles, packings, gaskets, seals, expansion joints and elastomer products, were $37,852,000 in 1977, an increase of 6%. Rivets and rivet-setting machine sales, which comprise 8.3% of total sales volume, rose 11.6% to $20,730,000.

RM FRICTION MATERIALS COMPANY—Although sales of friction materials to the aftermarket were slightly under expectations, sales to the original equipment market exceeded initial estimates. The strongest segment of the o.e.m. market was in the wet friction products used primarily in automatic transmissions for passenger cars and heavy-duty applications. To meet the steadily increasing demand for these products, and to enable new manufacturing technology to be applied in their production, R/M has embarked on a $4.6-million capital expansion program to provide sufficient capacity to meet future demands for these products through 1980.

R/M INTERNATIONAL—The economies of the foreign countries in which R/M has operations displayed considerable strength during 1977 and a continuation of this trend is anticipated for 1978. The company continues to be an important supplier of automatic transmission plates and clutch facings in the European market. The West German plant makes clutch facings and other friction materials for the original equipment and aftermarket for motor vehicles, farm tractors and some industrial applications. The plant in Ireland is now producing disc brake pads for the U.S. aftermarket. The Australian plant makes clutch facings for the original equipment and aftermarket. The Japanese joint venture, Daikin-R/M, commenced full-scale production in late 1977, making automotive products primarily for use in Mazda and Datsun car automatic transmissions and industrial-type, wet friction materials. The Venezuelan joint venture, Manufacturas Multiples, S.A., which produces friction materials and asbestos yarn, experienced shortages of some raw materials, a government price freeze, uncertain export markets and a labor dispute.

RAYBESTOS MANHATTAN INDUSTRIAL PRODUCTS COMPANY—The growth of R/M's industrial products business in recent years has resulted from the company's ability to produce custom-engineered, high-performance materials for application in adverse environments. Typical of these are non-metallic expansion joints, an automotive catalytic converter seal made from R/M's NOVATEX material, an elastomer stator for positive displacement pumps and an automotive steering column insulator made from a composite of silicon elastomer. . . .The change being made from the traditional process of forming asbestos textile yarn to R/M's proprietary, chemical extrusion process trademarked NOVATEX is progressing within the budget and timetable established in 1975. This wet process enables the company to comply with OSHA regulations and provides an attractive substitute for conventionally-manufactured asbestos textile products in most applications from a

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+ cement

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cost/performance standpoint. . . .During the year R/M completed an environmentally-enclosed, automated process for certain asbestos yarns still formed conventionally which is in compliance with current OSHA asbestos dust control limits and began a systematic program of realigning production workflow and upgrading manufacturing processes and facilities to reduce manufacturing costs and to comply with all environmental standards.

RESEARCH & DEVELOPMENT—It is R/M's policy to use asbestos only where it is essential to product performance, where the product can be made and used within government safety standards and where manufacturing costs make it possible to participate successfully in the marketplace. In textile products as well as in many sealing and insulation materials, current technology indicates that asbestos is essential to satisfactory product performance. However, due to escalating costs and continuously revised government regulations, R/M believes it is in its best interests and those of its customers to find viable alternatives to asbestos-based products wherever feasible and desirable. Recent development and testing programs, including customer evaluations, indicate it will be possible to replace asbestos in most friction materials. Since there is no direct equivalent to asbestos, the new products require combinations of alternate fibers as well as changes in other components and processing methods to achieve satisfactory performance and manufacturing costs. It is expected the transition to non-asbestos friction products will be achieved gradually over the next few years.

ASBESTOS STOCK QUOTATIONS

Close — March 21, 1978

Abitibi Asbestos	C$.62
Advocate Mines	C$2.51
Armstrong Cork	16-1/8
Armst. Cork (pfd 3.75)	46
Asarco	18
Asbestos Corporation	C$36.00
Bendix	34-3/8
Bendix (pfd 3)	68-1/2
Carlisle	20-1/4
Cassiar Asbestos	C$9.00
CertainTeed	21-1/2
Charter Conso.	pence 120
Colt Industries	45-5/8
Colt Ind. (pfd 1.60)	24
Colt Ind. (pfd 4.25)	64
Conwest	C$4.60
Flintkote	20-7/8
F-kote (pfd-B 2.25)	33
GAF Corporation	11-3/8
GAF (pfd 1.20)	16-1/4
Gulf & Western	12-7/8
G&W (pfd 2.50)	32-3/8
G&W (pfd 3.87)	62
G&W (pfd 5.75)	71
IC Industries	23-1/8
IC Ind (pfd 3.50)	42
Jim Walter Corporation	27-7/8
Jim Walter (pfd 1.60)	30
Johns-Manville	30-1/4
Kennecott Copper	25-1/8
Lear Siegler	15-1/2
Lear Siegler (pfd 2.25)	39-1/4
Maremont	18-3/8
McAdam Mining	C$.31
National Gypsum	15-1/4
Pathfinder	C$.245
Porter (pfd 5.50)	75-1/4
Raybestos-Manhattan	29-5/8
Rio Algom	C$27.25
Supradur	Bid 5-7/8; Asked 6-3/8
Union Carbide	40
Woodsreef Minerals	C$.60

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MEN ON THE MOVE

LAKE ASBESTOS OF QUEBEC LTD.

Jean Dupere has been appointed Executive Assistant to the President of Lake Asbestos of Quebec Ltd., a wholly-owned subsidiary of Asarco Inc., it was announced by LAQ President *Michael J. Messel.* Mr. Dupere had been an associate in the Montreal law firm of Byers, Casgrain, McNally, Dingle, Benn & Lefebvre since 1970. He has worked with the Quebec Asbestos Mining Association since 1971 on matters dealing with workmen's compensation, legislation, safety, health and environmental regulations.

UNION CARBIDE CORPORATION

Robert L. Folkman and *William M. Kelly* have been named Senior Vice Presidents of the Metals Division, Union Carbide Corporation. Mr. Folkman will be responsible for the mineral products business which includes asbestos, tungsten, uranium and vanadium, as well as for worldwide exploration and resource development activities. He joined UCC in 1951 as a research engineer. Mr. Kelly will have responsibility over the alloy products business.

VERMONT ASBESTOS GROUP, INC.

Jerome Hammang was dismissed as President of Vermont Asbestos Group, Inc., in early March. No official reason was given. . . .*David A. Winer* was named to replace Mr. Hammang as President of the worker-owned VAG. He had been President of Infrared Industries, Waltham, Massachusetts, and only recently had been named to head Vermont Industrial Products, Inc., the VAG wallboard subsidiary now under construction in Morrisville. . . .Announcement of the shake-up came the same day that *Howard A. Manosh,* a Morrisville businessman, disclosed he is seeking purchase of controlling interest in the troubled firm. . . .In late March, *John Lupien* resigned as Chairman of the Board of VAG, although he said he would remain an employee of the firm for the time being. The resignation came the same day as lawyers for VAG argued in U.S. District Court for a preliminary restraining order to stop the stock takeover by Mr. Manosh. Mr. Lupien is credited with leading the workers, just three years ago, into ownership of the $8-million operation.

CORRECTION—In the March 1978 issue of ASBESTOS, page 42, it was announced that *K. Wood,* Managing Director of Central Asbestos Co. Ltd., London, England, had been appointed a Director of Commonwealth Mining Investments (Australia) Ltd. The Mr. K. Wood who is Managing Director of Central Asbestos advises the Commonwealth appointment was attributed to the wrong Mr. K. Wood. We regret any inconvenience caused by our printing the incorrect information.

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Unique service in Asbestos Cement Plants.

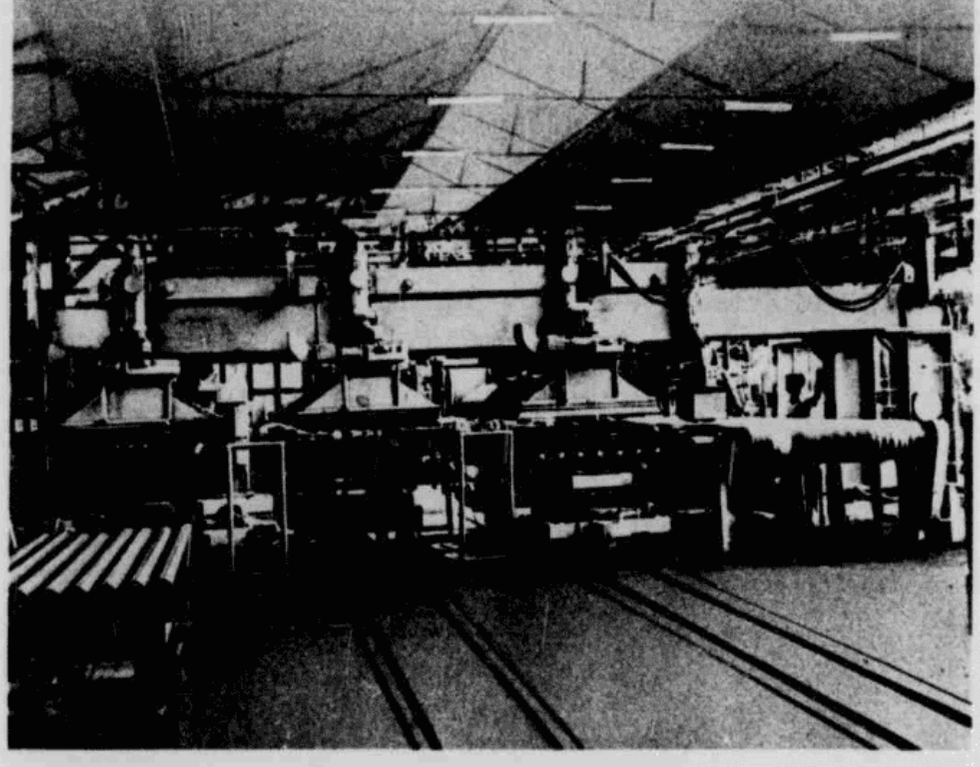
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RETIRED, BUT NOT IDLE

ERNST WALTHER
S.A. ASBESTOS TRADING (PTY) LTD.

Ernst Walther retired December 31, 1977, as Managing Director of S.A. Asbestos Trading (Pty) Ltd., having given over 33 years of his career to the South African asbestos mining and asbestos cement industries. He will remain active, however, having recently become a Director of Asbestos Investments (Pty) Ltd., Johannesburg. Mr. Walther joined Everite Ltd. in 1944 as Production Engineer and was instrumental in introducing the use of Crocidolite (Blue) asbestos fibers into the asbestos-cement pressure pipe manufacturing process. From 1946 to 1951 he established Everite's Research and Development Laboratory, for basic asbestos fiber research and product and equipment development. After intensive prospecting and exploration, the Asbestos Investment Group of Companies was formed in 1951. As Consulting Engineer, Mr. Walther was involved with the opening of several Chrysotile and Crocidolite mines. In the 1950's he introduced the commercial production and successful export of African asbestos "shorts" and the system of blending many types of asbestos fibers from different deposits into homogeneous commercial grades. He was appointed Managing Director of SAAT in 1966. He was also a member of the American Society for Testing and Materials, acting as liaison for the South African Bureau of Standards.

GEORGE BARGE
ATLAS ASBESTOS CO. LTD.

George Barge retired March 31, 1978, as President and a Director of Atlas Asbestos Co. Ltd., Montreal, Quebec, and its affiliated company, Turners Building Products Ltd., Mission, British Columbia. He joined Atlas Asbestos in 1963 and has spent his entire working career in the Asbestos Industry. He joined Keasbey & Mattison Company in 1934 and relocated from St. Louis, Missouri, to K&M Headquarters, Ambler, Pennsylvania, in 1946. He was promoted through a number of positions, ending as a Director and Vice President of Finance. Mr. Barge was active in the affairs of the Asbestos Information Association/North America and the Association of Asbestos Cement Pipe Producers, having served as a Director and on the Executive Committees of both organizations. He will remain involved with Atlas Asbestos in a non-executive capacity. One of his responsibilities will be to represent the company in AACPP.

Still Available . . . .

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

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Scandura. We'll take asbestos to any lengths.

Any lengths. Any widths.
From yarns which are used to wind automotive clutch facings through to tapes and cloths, packings and jointings which are all used in a wide variety of applications.
Our manufacturing techniques reflect the best of both worlds. The application of the very latest methods and equipment with the know-how and experience of one of the longest established asbestos product manufacturers. So whatever lengths or widths you want to get to, we can help.
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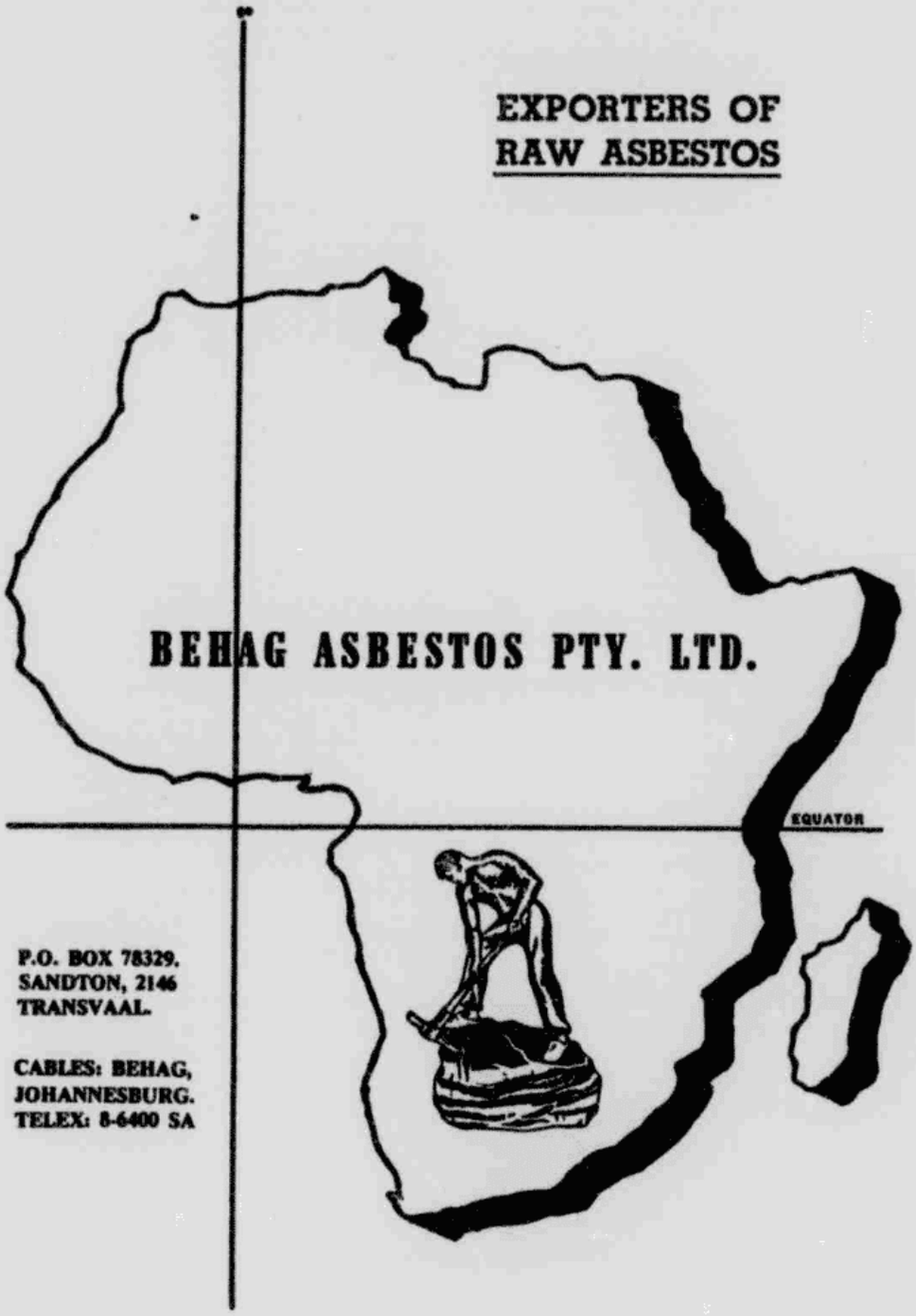
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BIRTHDAY GREETINGS to . . .

John D. Zacharias, President, Atlas Asbestos Co. Ltd., Montreal, Quebec, May 15.
W. Vermeer, Jr., Managing Director, Chemische Productenhandel J. J. van de Vrande, Haarlem, The Netherlands, May 16.
J. R. M. Hutcheson, Chairman of the Board, Canadian Johns-Manville Co. Ltd., Asbestos, Quebec, May 17.
Alfred E. Netter, Assistant Secretary, Supradur Manufacturing Corporation, New York City, May 17.
W. J. Clough, a Director and General Manager, Sealing Materials Division, TBA Industrial Products Ltd., Spotland, Rochdale, Lancashire, England, May 18.
L. F. Gauvreau, President, McAdam Mining Corporation Ltd., Toronto, Ontario, May 18.
Kurt Schwarz, Senior Vice President, Supradur Manufacturing Corporation, Wind Gap, Pennsylvania, May 19.
M. L. Trepanier, Manager of Engineering, Asbestos Corporation Ltd., Thetford Mines, Quebec, May 19.
R. L. Johnson, Treasurer, MacArthur Company, St. Paul, Minnesota, May 20.
S. E. Cohen, a Director, James Hardie Asbestos Ltd., Sydney, New South Wales, Australia, May 21.
William T. Colborn, Vice President, Pacor Inc., Philadelphia, Pennsylvania, May 21.
Ray A. Plauche, Plant Manager, Asbestos-Cement Plant, National Gypsum Company, New Orleans, Louisiana, May 21.
H. M. S. Tanner, Managing Director, Cape Asbestos Fibres Ltd., Uxbridge, Middlesex, England, May 21.
Reginald Sykes, Secretary, Asbestosis Research Council, Rochdale, Lancashire, England, May 23.
Michael C. Mangan, Production Manager, Hedman Mines Ltd., Matheson, Ontario, May 24.
J. M. Atkinson, Deputy Chairman, Havelock Asbestos Mines (Swaziland) Ltd., a principal subsidiary of Turner & Newall Ltd., Manchester, England, May 25.
Dennis F. Lougheed, Plant Superintendent, Hedman Mines Ltd., Matheson, Ontario, May 25.
Edward A. Morris, Sales Manager, Southern District, Amatex Corporation, Columbia, South Carolina, May 25.
J. L. Geddes, Managing Director, Cape Insulation Ltd., Stirling, Scotland, May 27.
A. J. McMullen, Chairman and Chief Executive Officer, Garlock Inc., Rochester, New York, May 27.
Lionel C. Piuze, Vice President-Operations and a Director, Lake Asbestos of Quebec Ltd., Black Lake, Quebec, May 30.
Leo J. Bartolanzo, Vice President and Controller, Johns-Manville Corporation, Denver, Colorado, June 3.
Harold F. X. Plate, Marketing Manager, Lake Asbestos of Quebec Ltd., New York City, June 3.
J. G. Richardson, a Director, Cape Industries Ltd., London, England, June 5.

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R. V. Stohr, Manager, Kliprivier Factory, Everite Ltd., Kliprivier, Transvaal, Republic of South Africa, June 6.

William Krucke, Director of Environmental Programs, Raybestos Manhattan Industrial Products Company, North Charleston, South Carolina, June 9.

Alexander Kuzmuk, Vice President and General Manager-Construction Products, Garlock Inc., Palmyra, New York, June 11.

Ernest C. Bratt, President, Southern Asbestos Company, Charlotte, North Carolina, June 12.

B. C. Winch, Managing Director, Cape Distribution Ltd., Biggleswade, England, June 12.

A. H. Bagenstose, Vice President-Sales and a Director, Carey-Canadian Mines Ltd., East Broughton Station, Quebec, June 14.

A. C. Caron, Manager of Engineering, Cassiar Asbestos Corporation Ltd., Vancouver, British Columbia, June 14.

John J. Finnegan, President, Ambler Division, a Corporate Vice President and a Director, Nicolet Inc., Ambler, Pennsylvania, June 14.

G. R. Smith, Special Duties, Bell Asbestos Mines Ltd., Thetford Mines, Quebec, June 14.

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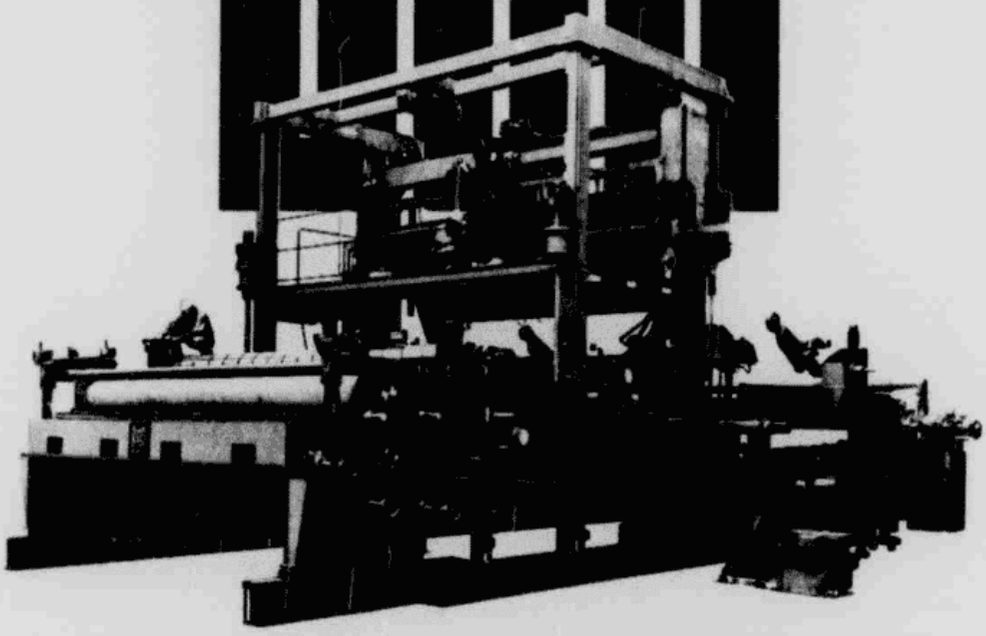
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Asbestos Cement Machines

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▲5 m-pipe machine for pipe outside diameter up to 2500 mm

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
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Stamping machines for cutting slates
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Pipe machines
Pipe curing and rounding systems
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VALUABLE LITERATURE

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PROCEEDINGS OF 1977 NATIONAL CONFERENCE ON NOISE CONTROL ENGINEERING (NOISE-CON 77)—Edited by G. C. Maling, Jr.; contains 36 papers on transportation noise including Concorde noise monitoring, wheel/rail noise from rail-guided vehicles, techniques for the preparation of environmental impact statements, engine noise control and a review of transportation noise control programs of the U.S. Department of Transportation and the Federal Aeronautics Administration; the five sections in the book deal with government programs, noise impact and environments, prediction of noise levels, surface and aircraft noise control technologies and standards and measurements. [512 pages; Institute of Noise Control Engineering; $35.00]

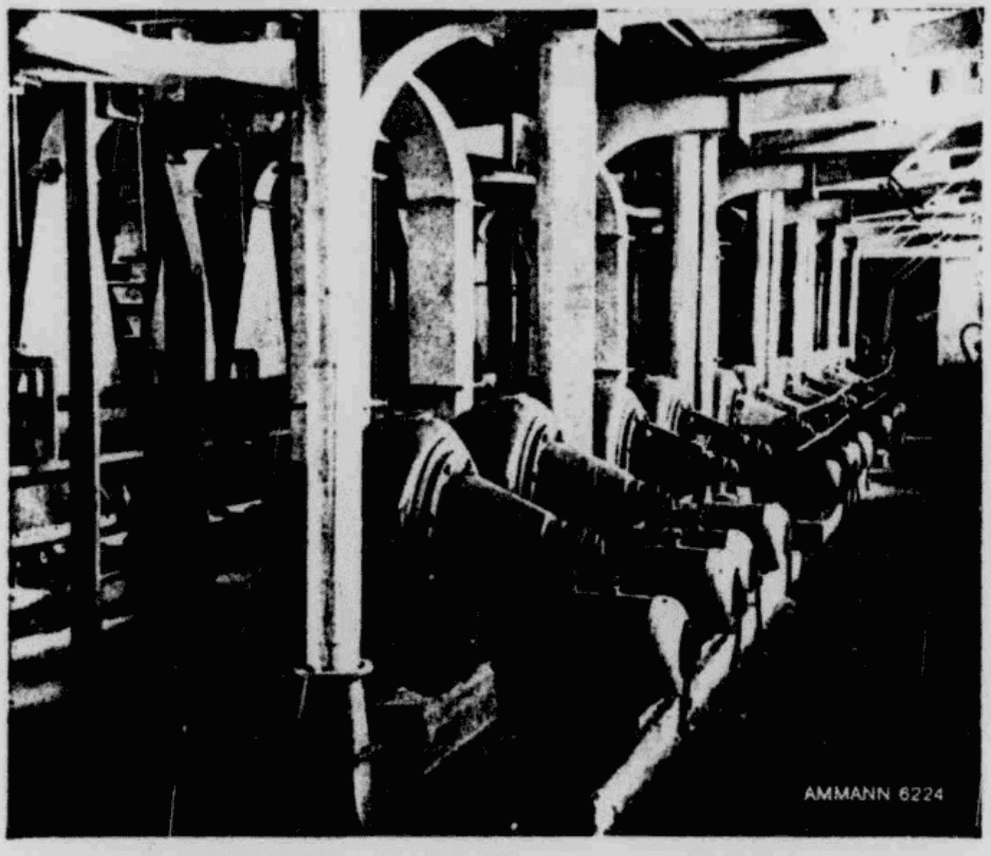
NOISE CONTROL ENGINEERING—Now in its sixth year of publication, this technical literature devoted exclusively to noise control is published bimonthly by the Institute of Noise Control Engineering in cooperation with the Acoustical Society of America; in-depth articles cover such topics as techniques for machinery noise control, community noise, aircraft noise, standards and measurements and engineering criteria for noise control; seeks to advance the technology of noise control with emphasis on engineering solutions to environmental noise problems. [Contact "ASBESTOS" for further details]

MINING INTERNATIONAL YEAR BOOK 1978—This new edition, by W. Skinner, provides extensively-revised, updated data on the operating statistics and other business information on mining companies throughout the world; entries include details on executive officers and directors, administrative and operational locations, financial structure, dividends and accounts, production and ore reserve data and a three-year, high/low list of stock quotations; a cross-reference index incorporates over 4,000 mining subsidiaries and associated firms; a suppliers directory/buyers guide comprises over 1,500 entries. [702 pages; The Financial Times Ltd.; $55.50]

HUMAN RESOURCES IN CANADIAN MINING: A PRELIMINARY ANALYSIS—Report on a study released by the Centre for Resource Studies at Queen's University, Kingston, Ontario; determines that manpower shortages in periods of peak demand and manpower surpluses during depressed mineral markets are characteristic of mining in Canada; reviews several aspects of employment relationships in the mining industry; calls for more effective planning of manpower needs but points out that current research and data are inadequate for the task; states that industrial relations in mining are in desperate need of improvement and concludes that the public interest demands a cooperative search for the solutions to human problems in mining. [194 pages; $5.00]

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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 Asbestcs Mines of the whole world.

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

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ABMEX BUYERS' GUIDE—Easy reference to British suppliers of various types of mining equipment; represents a complete revision of and a substantially different format than past editions. [124 pages; Association of British Mining Equipment Exporters; written in English, French, German and Spanish; free copy available on request]

PRODUCT LIABILITY DIGEST—The alarming increase in the number and size of judgments being awarded in suits charging product liability plus the steeply rising costs of insurance have caused manufacturers and distributors to demand protective legislation; so far significant measures have been enacted in only three States and the volume of news from the other 47 States and D.C. adds up to a formidable reading task; this monthly newsletter reports, in compact form, important activities in the field of product liability, i.e., loss prevention techniques, insurance developments, suits filed and settled and proposed State and National legislation. [$115.00 per year including air mail overseas]

THERMAL INSULATION 1978: RECENT DEVELOPMENTS—Chemical Technology Review 99 and Energy Technology Review 23, by J. B. Dillon; surveys patent literature to provide a detailed, practical view of research and product developments as well as the actual applications technology of insulation systems which are now an integral part of construction planning; covers the various common materials which provide varying degrees of insulation because of their low thermal conductivity. [339 pages; Noyes Data Corporation; $39.00]

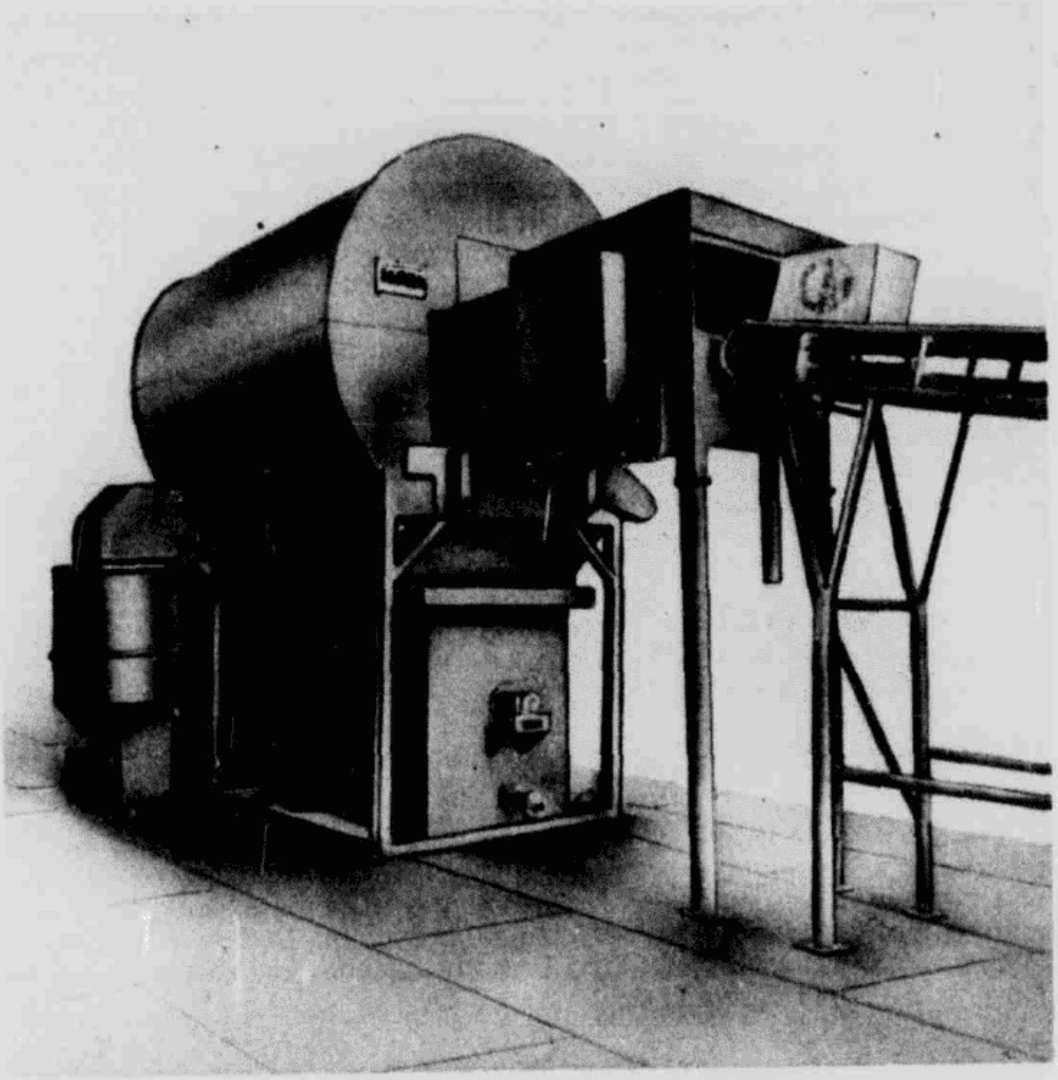
U.S. INDUSTRIAL OUTLOOK/1978—Published annually as an aid to business by the Industry and Trade Administration, U.S. Department of Commerce; offers access to valuable information resources of the U.S. Government and enables the reader to operate from the same data base as that used by the Federal Government; includes data and analyses of most of the Country's manufacturing and service industries. [480 pages; Stock #003,008,00179-3; $6.75; Order direct from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402]

ENVIRONMENTAL TOXICOLOGY: A GUIDE TO INFORMATION SOURCES—Volume 7 in the Man and the Environment Information Guide Series; edited by R. L. Rudd, University of California; provides annotated listings of over 1,000 books and articles contributing to understanding the action of toxic substances upon the environment; arranged in four major parts, i.e., General Sources on Environmental Toxicology, Consequences of Intentional Environmental Pollution, Consequences of Unintended Environmental Pollution and Special Aspects of Environmental Pollution. [266 pages; Gale Research Company; $18.00]

CHEMICAL CARCINOGENS—Edited by C. E. Searle; describes present knowledge of the chemistry, biology and hazards of the known range of carcinogens in such a way as to be of value and interest to chemists and to medical and scientific workers directly involved with cancer research; authorities from the United States, the United Kingdom, France and West Germany have contributed to the 16 chapters including one entitled Asbestos Carcinogenesis. [788 pages; ACS Monograph 173; American Chemical Society; $67.50]

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ispra – *Special machines for asbestos*



"BAG BREAKER" Bag opener characterized by a total emptying of paper or plastic bags from asbestos.
It eliminates all possibilites of dust in the environment.

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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 1,493,478—A flame-resistant adhesive for adhering together wood, plywood, metals, glass or the like consists of a mixture of sodium silicate, kaolin, deflocculated asbestos, unexpanded perlite or vermiculite, a liquid silicone and a phenol-formaldehyde; this adhesive has long shelf life; J. A. L. F. Chollet; November 30, 1977; 4 pages.

British 1,494,465—A mixture for adsorbing sulfur oxides, hydrogen sulfide and other harmful gases out of an industrial waste gas comprises about 50% by weight of lightly-burned limestone, 10%-15% of asbestos short fiber, 7%-12% of boric acid or borax and the balance sodium metasilicate; A. Bumbalek; assigned to Firma Herman Wegener, December 7, 1977; 4 pages.

U.S. 4,054,711—A material for use in the thermal insulation of pipes comprises layers of a metalized polyethylene terephthalate, aluminum, an adhesive, asbestos fibers reinforced with an open-mesh scrim cloth, an adhesive and a film of polyvinyl fluoride; C. J. Botsolas; assigned to Johns-Manville Corporation, October 18, 1977; 6 pages.

U.S. 4,056,447—A diaphragm for use in diaphragm cells is formed by impregnating asbestos fiber or asbestos paper with divinyl benzene, styrene and benzoyl peroxide, heat-polymerizing the monomers, sulfonating the material and washing and chlorinating the product; L. Guiffre, V. DeNora & P. Spaziante; assigned to Oronzio DeNora Impiante Elettrochimici S.p.A., November 1, 1977, 5 pages.

U.S. 4,065,534—An asbestos diaphragm of enhanced liquid permeability and electrical conductivity is made by drawing asbestos from a chloride-free aqueous slurry of potassium hydroxide and polyvinyl chloride to co-deposit the fibers and polymer, and heating the mat at a temperature of 250-260°C; T. A. Rechlicz & B. A. Maloney; assigned to PPG Industries, Inc., December 27, 1977; 5 pages.

U.S. 4,069,191—A composition for sealing refrigerator evaporators or patching cracks in metal surfaces comprises (1) a first component including bisphenol A epoxy resin, a diazo dye and asbestos, and (2) a second component including a polyamide resin and asbestos; the asbestos improves the thixotropic properties of the components; J. F. Post; January 17, 1978; 3 pages.

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STANDARDS UP-DATE

U.S. NATIONAL STANDARDS POLICY

A *Recommended National Standards Policy for the United States* was released for public review and comment by the National Standards Policy Advisory Committee (NSPAC). In the document, NSPAC delineates due process criteria to be observed in national standards writing activities, emphasizes the need for cooperation between the public and private sectors and defines a recommended role for each in standards activities in general and in those activities applicable to health, safety and the environment. Also recommended are the establishment or identification of standards coordinating centers and mechanisms for initial and final appeals. Other policy provisions cover funding of consumer and small business participation in standardization, performance standards, technological innovation and forecasting and measuring effects of standards. . . . Copies of the policy, which appeared in the Federal Register of February 14, 1978, are available from NSPAC or the American National Standards Institute. The deadline for comments is June 1, 1978.

RECENT ACTIONS ON CANADIAN STANDARDS

Standard for: Sheets, Asbestos-Cement, Corrugated—34-GP-5M, November 1977, supersedes 34-GP-5c.

Standard for: Sheets, Asbestos-Cement, Flat, Fully Compressed—CAN2-34.16-M77, supersedes 34-GP-16b dated January 1970.

Standard for: Sheets, Asbestos-Cement, Flat, Semi-Compressed—34-GP-17M, August 1977, supersedes 34-GP-17c.

Standard for: Sheets, Asbestos, Low Density—34-GP-18M, August 1977, supersedes 34-GP-18a.

Standard for: Tiles or Panels, Asbestos-Cement, Acoustical—34-GP-19M, January 1978, supersedes 34-GP-19b.

Standard for: Pipe, Asbestos-Cement, Drain—34-GP-22M, Amendment No. 1, November 1977.

Standard for: Pipe, Asbestos-Cement, Sewer, House Connection—34-GP-23M, Amendment No. 1, September 1977.

Provisional Standard for: Cement, Finishing—51-GP-7MP, February 1977, supersedes 51-GP-7a.

Provisional Standard for: Asbestos Cloth and Twine for Use with Thermal Insulation—51-GP-8MP, March 1977, supersedes 51-GP-8a.

Standard for: Sheathing, Membrane, Breather Type—CAN2-51-32-M77, April 1977.

Standard for: Vapor Barrier, Sheet, for Use in Above-Grade Building Construction—CAN2-51-33-M77, April 1977.

Standard for: Vapor Barrier, Jacket and Facing Material for Pipe, Duct and Equipment Thermal Insulation—51-GP-52M, August 1977, supersedes 51-GP-52.

Provisional Standard for: Thermal Insulation, Cellulose Fiber, Loose Fill—51-GP-60P, July 1977.

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CALENDAR OF EVENTS

AMERICAN INDUSTRIAL HYGIENE CONFERENCE—Sponsored jointly by the American Industrial Hygiene Association and the American Conference of Governmental Industrial Hygienists; Biltmore Hotel, Los Angeles, California, *May 7-12.*

AMERICAN SOCIETY FOR QUALITY CONTROL—32nd Annual Technical Conference and Inspection, Testing and Quality Assurance Show; Palmer House, Chicago, Illinois, *May 8-10.*

INTER-NOISE 78—7th International Conference on Noise Control Engineering organized by the Institute of Noise Control Engineering in cooperation with the National Bureau of Standards and other Federal agencies and professional societies; Jack Tar Hotel, San Francisco, California, *May 8-10.*

MEETING FOREIGN COMPETITION—National Conference on company policy and strategy options conducted by the Conference Board, Inc.; The Waldorf-Astoria, New York City, *May 11.*

METRIC MANAGEMENT WORKSHOP—Sponsored by the American National Metric Council; Capital Hilton Hotel, Washington, D.C., *May 11-12.*

BUSINESS OPPORTUNITIES IN THE MIDDLE EAST—Organized by McGraw-Hill Conference Group; New York City, *May 15-16.*

1978 PACIFIC NORTHWEST METALS & MINERALS CONFERENCE—Hosted by the American Society for Metals, the American Welding Society and the American Institute of Mining, Metallurgical and Petroleum Engineers; Hilton Convention Center, Portland, Oregon, *May 15-17.*

SOCIETY OF FIRE PROTECTION ENGINEERS—Seminar to discuss whether the effects of thermal insulation on building fire performance improve or handicap structural fire safety; held in conjunction with the 82nd Annual Meeting and Fire Safety Exhibit of the *NATIONAL FIRE PROTECTION ASSOCIATION;* Convention Center, Anaheim, California, *May 16.*

POWDER & BULK SOLIDS CONFERENCE/EXHIBITION—Sponsored by the International Powder Institute with the full support of the Fine Particle Society; O'Hare International. Trade and Exhibition Center and adjacent Hyatt Regency O'Hare Hotel, Rosemont, near Chicago, Illinois, *May 16-18.*

THE ECONOMICS OF INTERNATIONAL MINERAL EXPLORATION AND DEVELOPMENT—Course offered by the Colorado School of Mines, Golden, Colorado; *May 17-19* and *August 23-25.*

BUILDING MATERIALS CONFERENCE—Announced by the Engineering Foundation of the United Engineering Trustees, Inc.; Asilomar Conference Grounds, Pacific Grove, California, *May 21-26.*

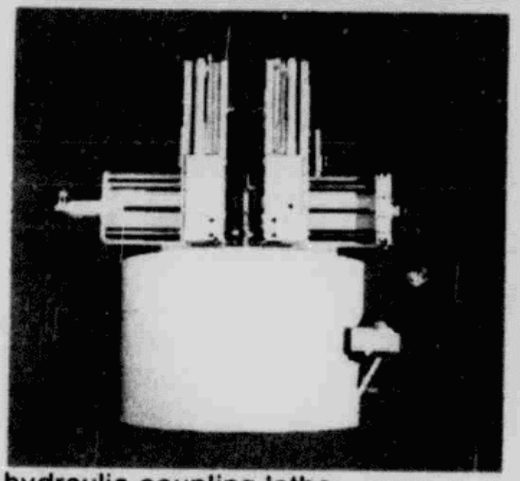
AMERICAN SOCIETY FOR TESTING AND MATERIALS—Committee Meetings to be held at the Radisson Muehlebach Hotel, Kansas City, Missouri;

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E-34 on Occupational Health and Safety Aspects of Materials, Physical and Biological Agents, *May 22-23;* E-40 on Technical Aspects of Products Liability Litigation, *May 23-24.*

REVIEW OF MINE VENTILATION PRINCIPLES AND PRACTICES—Short Course at the College of Earth and Mineral Sciences, Pennsylvania State University, University Park, Pennsylvania, *May 22-26.*

THE PRACTICAL SIDE OF GEOSTATISTICS—Course offered by The Mining Engineering Department, Mackay School of Mines; University of Nevada, Reno, Nevada, *May 22-27.*

UNIVERSITY OF WISCONSIN—Extension Courses at the Madison Campus include Wastewater Collection and Treatment Facility, *May 22-26;* Solar Heating and Cooling of Buildings, *June 8-9;* Environmental Law and Regulation, *June 12-13;* Environmental Monitoring Symposium, *June 12-16;* Environmental Impact Statements, *June 14-16;* Environmental Noise Impact Assessment, *June 29-30.*

ENVIRONMENTAL LAW AND REGULATIONS—Masters Seminar organized by Government Institutes, Inc.; accommodations at the Twin Bridges Marriott, Washington, D.C., *May 24-25.*

ASSOCIATION OF CONSULTING ENGINEERS OF CANADA—1978 Annual Meeting; The Inn on the Park, Toronto, Ontario, *May 31-June 2.*

ULTRASONIC IMAGING AND TISSUE CHARACTERIZATION—Third International Symposium cosponsored by the National Bureau of Standards and the National Institutes of Health; NBS Headquarters, Gaithersburg, Maryland, *June 5-7.* Overlapping this event will be the *FIRST INTERNATIONAL SYMPOSIUM ON ULTRASONIC MATERIALS CHARACTERIZATION* at NBS Headquarters, *June 7-9.*

RECOGNITION OF OCCUPATIONAL HEALTH HAZARDS—Course #510 of the National Institute for Occupational Safety and Health; Philadelphia, Pennsylvania, *June 5-9.*

MODERN X-RAY SPECTROMETRY—15th Annual Short Course; State University of New York, Albany, New York, *June 5-16.*

ASBESTOS TEXTILE INSTITUTE, INC.—1978 Spring Meeting; Le Chateau Frontenac, Quebec City, Quebec, *June 7-9.*

SCANNING ELECTRON MICROSCOPY AND X-RAY MICROANALYSIS—Short Course; Lehigh University, Bethlehem, Pennsylvania, *June 12-16.*

7TH TRIENNIAL WORLD CONGRESS—Sponsored by the International Federation of Automatic Control; Helsinki, Finland, *June 12-16.*

SCIENCE WEEK—Conferences, Workshops, Courses and other scientific events held by The New York Academy of Sciences; includes Conferences on the Health Effects of Asbestos Exposure and on Public Health Control of Environmental Hazards; New York City, *June 21-30.*

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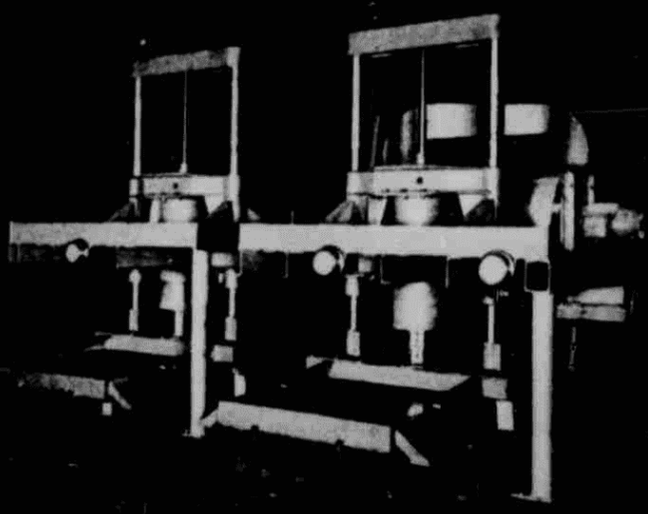
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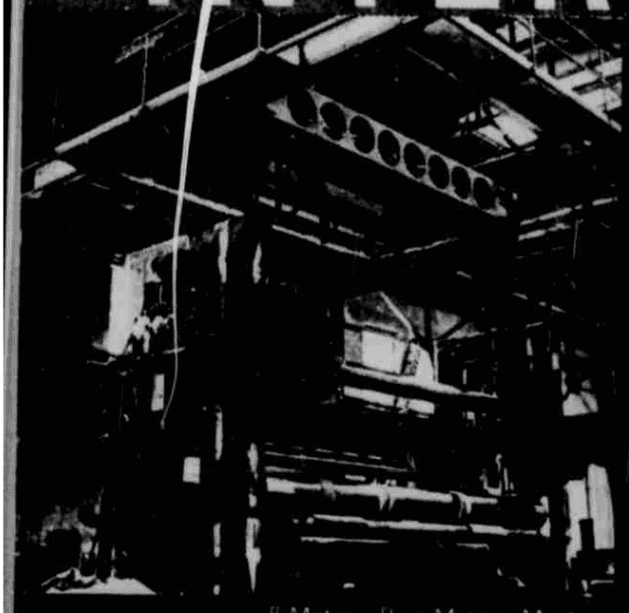
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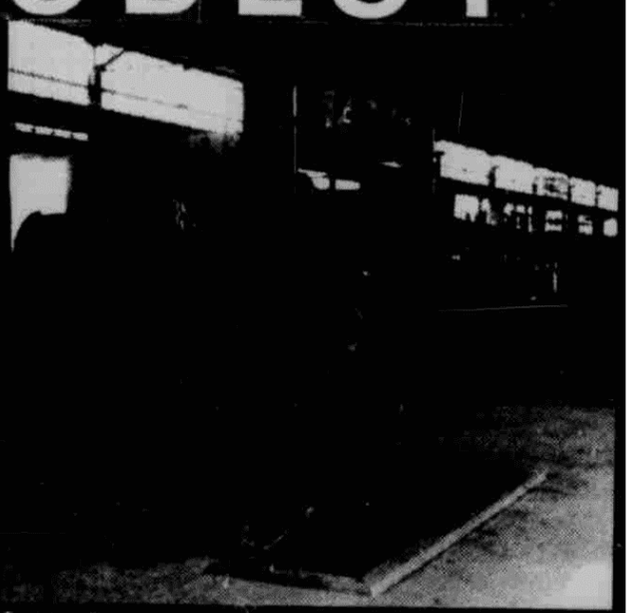


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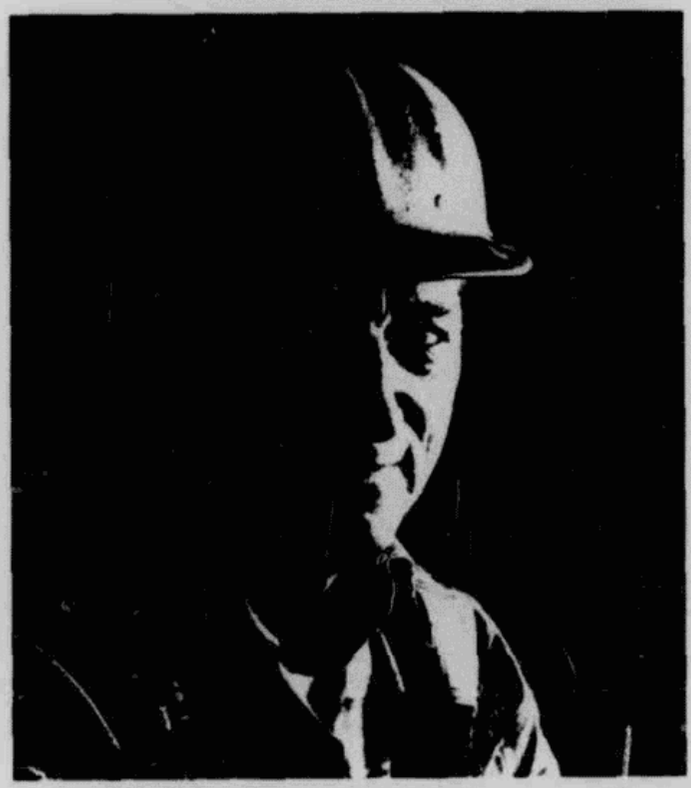
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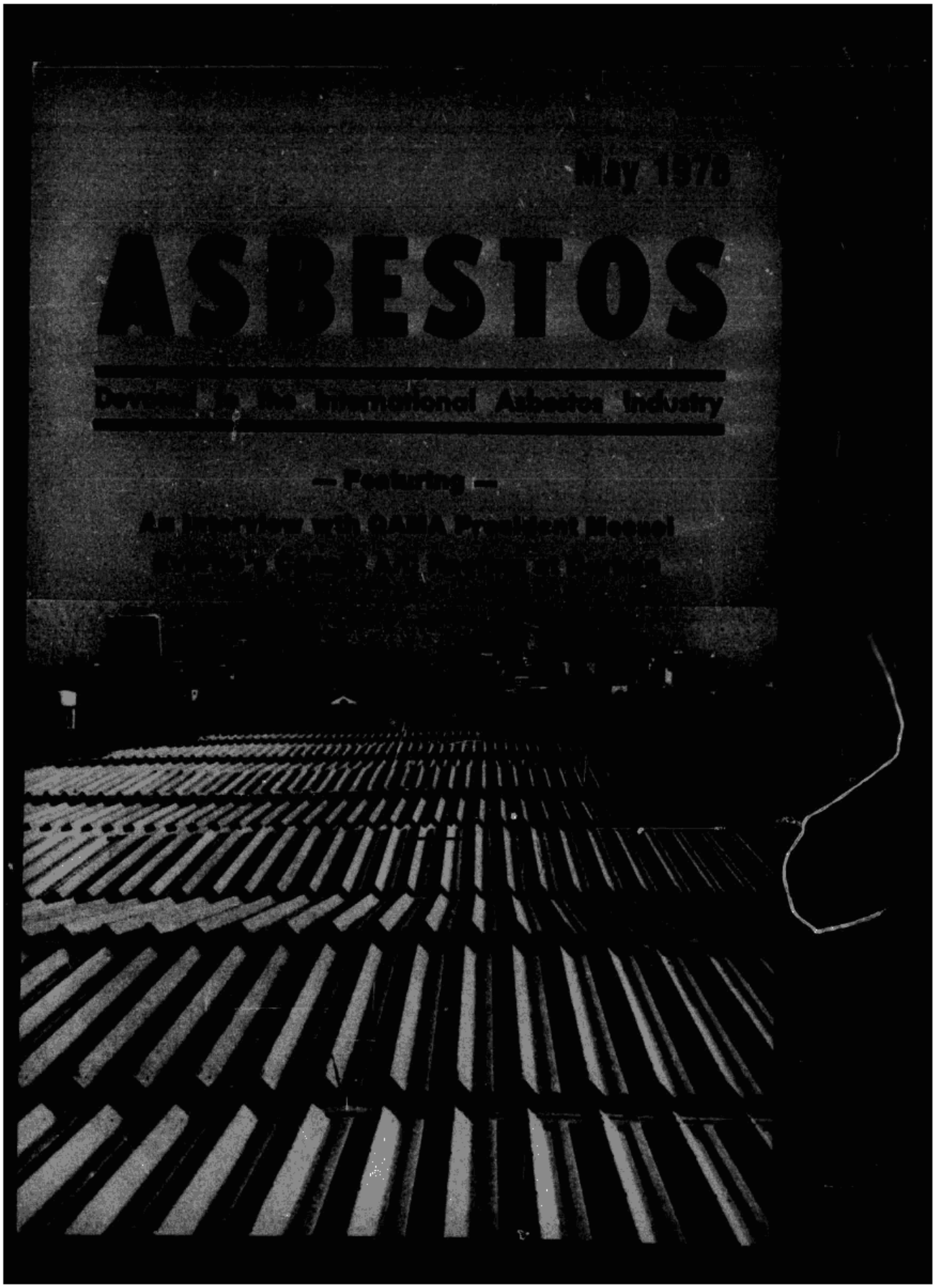
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