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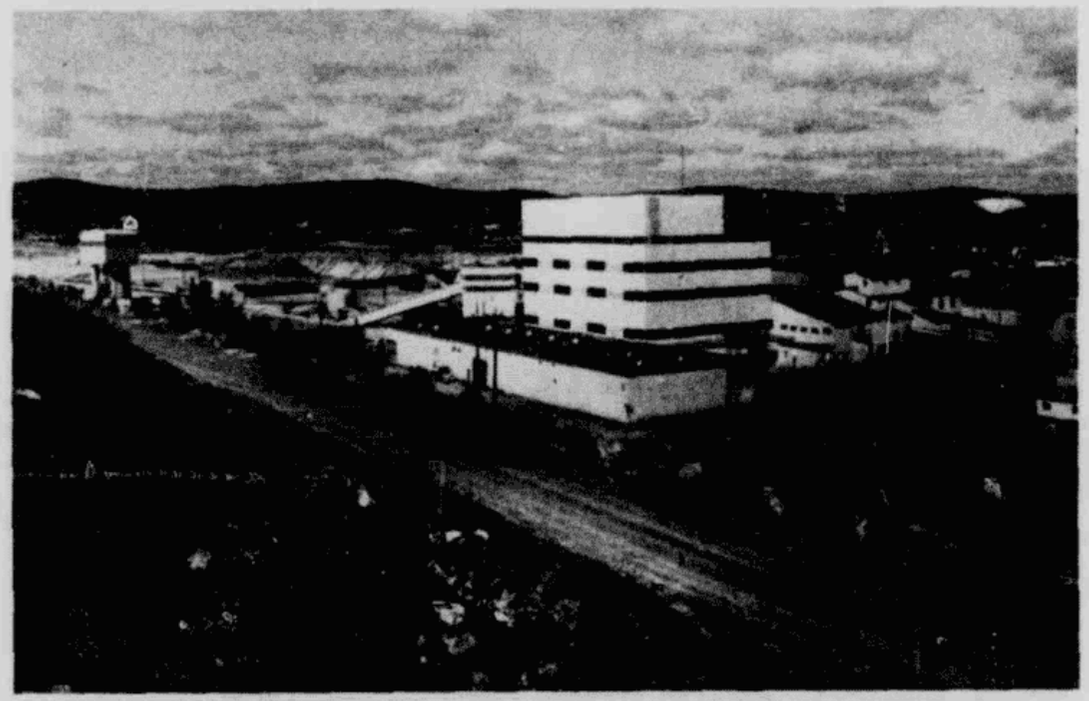
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ASBESTOS

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AN INTERVIEW WITH THE PRESIDENT OF QAMA—M. J. MESSEL



Mr. Michael J. Messel, President of Lake Asbestos of Quebec Ltd., a wholly-owned subsidiary of Asarco Inc., is serving a second term as President of the Quebec Asbestos Mining Association. At the outset of his new term of office he issued comments on several current topics related to the Asbestos Industry. His comments, quoted below, are reprinted from the February 1978 edition of the "QAMA Bulletin."

Question: What do you think to be the reasons for the decline in asbestos deliveries in 1977?

There are mainly two reasons. First, the economy of some of our large consumer countries has been declining. Building has been on the decrease and consequently the sale of asbestos products, thus influencing the sale of our fiber. Secondly, the USSR has increased its production of asbestos and has put about 50% more fiber on the market. While in other years Russian fiber sales were about 440,000 tons, in 1977 these sales were up to 870,000 tons and as their prices are very competitive, our sales have gone down.

Question: How to cope with this situation?

To compete, we will have to improve our productivity and technology and consequently lower our production costs. However, there are a number of asbestos-cement* product plants being built in the developing countries and we are making great efforts to increase our market share in these countries. On the other hand, we hope that in a few years the economy will have picked up, and so will our share of the market.

*70% of the Quebec asbestos production is used in the manufacture of asbestos-cement products.

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Question: How is the Industry reacting to the marketing of substitutes for asbestos?

Following the exaggeration of the environmental questions linked with asbestos, people are looking for substitutes. In some areas, these products will find their place, but in others, as in the fibro-cement products, asbestos will hold its own. Basically asbestos-cement is a cheaper product. All countries have cement to which they can add asbestos, to build homes, panels, pipes, etc. In the Middle East, in the Far East, in Africa, they are all building asbestos-cement plants and this market will always be important. In other areas, we feel that it will take a lot of time and research to find efficient and economical substitutes to replace asbestos. Some substitutes already exist, but none has the low-cost efficiency relation we find in asbestos. And talking about risks to health, asbestos is no more dangerous to use than other essential products, like PVC for example. Today we have the technology and knowledge necessary to use asbestos safely, while for the substitute products, we don't have the historical background and the experience necessary to evaluate their risks. Who knows what will be said in 20 years about some substitutes? It took more than 60 years before we knew that asbestos could present certain risks to health.

Question: What do you think of the government proposal to carry out research in conjunction with the Industry?

We welcome initiatives in this area and if government officials can come up with realistic projects with economic possibilities, we are certainly ready to collaborate. But research is not a universal panacea. There is a big job to do to change the attitude of architects and construction people towards asbestos and get them to use more asbestos-containing products.

Question: Would it not be advisable to make a bigger effort in research into new asbestos products and applications?

A lot of research is being carried on. For example, ten years ago, flooring felt which contains 85% asbestos was still unknown. Hopefully, new products and new applications will be discovered through ongoing research. But in the present atmosphere, it is difficult to get people to put a lot more money into new asbestos products because of misinterpretation of health problems. Research is expensive and requires major investments.

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Question: Do you think that the government's aim to transform 20% of Quebec's fiber production is realistic?

The Sores report does not foresee the realization of this objective. But the Sores report is for investors and investors cannot take risks as important as a government which can afford to lose money on one hand but create jobs for its people on the other hand. Quebec is not an easy market as we do not buy here a lot of asbestos-containing products. A big educational program has to be put into action to convince people to use more asbestos products. Here in Quebec, we have developed the world's most modern technology on mining, milling and grading asbestos, but we have not been able to develop the same kind of expertise in transformation, because you cannot build a strong manufacturing industry if it does not have a strong domestic market base.

Question: What is the Industry's attitude towards recent resolutions of the European Parliament concerning asbestos?

The situations referred to are mainly those of the past, dating back 30 and 40 years. Today, with technology, we can properly control the environment and reduce dust exposure to employees as can now be verified in our mines and mills in Quebec. Europe is one of the oldest consumers of our asbestos. Perhaps some politicians thought they had to make some rules, but Europe has been using asbestos products for more than a hundred years and once this crisis is over, I am sure that, with proper information and knowledge of the safe methods of manufacturing, asbestos will continue to be used.

Question: How do you see the future of the Industry?

Even if the outlook at this time is somewhat pessimistic in the short term, I feel that in the long run we will see an important change in attitudes. At the moment, we have the health problems, the misinformation and exaggeration of information to cope with. But we shall overcome and we possess the brains and energy to do so. We have in hand a great product, an essential, basic raw material of great value which simultaneously offers many qualities that we cannot find in any other product, and that's our future.

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FOR & ABOUT — COMPANIES

A TOUR THRU TURNER & NEWALL

Turner & Newall Ltd. has taken a 50% equity in a new company, *Flexitallic Iberica,* which will manufacture industrial gaskets in Spain. The partners will be *Senors C. Parro and F. Perez,* owners of SIDSA, who currently distribute in Spain Flexitallic gaskets made in the United Kingdom. T&N's interest will be managed by *Engineering Components Ltd.,* the T&N subsidiary responsible for Flexitallic's worldwide operations. . . . T&N is to spend another £1.8-million, in addition to the £6-million expansion announced last year, on a new uPVC pipe manufacturing plant in Nigeria for *Turners Building Products (Emene) Ltd.* The pipes will be made in the 75mm to 200mm diameter range, permitting the existing asbestos-cement pipe plant to be used increasingly for the larger diameter pipes required for water distribution, sewerage and drainage. . . . T&N has agreed with *S.A. Francaise du Ferodo* that each should increase its shareholding in *Bureau Technique International S.A.,* Belgium. T&N's stake will increase to 68% and SAFF's to 32%. BTI is a distributor of automotive components, particularly brake and clutch parts, is one of the largest brake shoe relining companies in Europe and is a manufacturer of water pumps.

CAPE CAPERS

A new four-hour, fire-resisting partition which is light in weight and contains no asbestos, has been developed by *Cape Boards and Panels Ltd.* and tested by the Timber Research and Development Association. Advantages of the new product, which incorporates Supalux board facings, are that it may be handled and erected easily, on-site cutting and drilling are possible without special equipment and good acoustic and thermal insulation is provided. . . . *Cape Industries Ltd.* has taken a 90.1% controlling interest in *Svenska Bromsbandfabriken a.b.,* having acquired an initial 49% interest in 1974. The remaining 9.9% is held by *SVETAB (the Swedish State Industrial Development Board.* . . . Since 1971, Don friction materials have been made under license in Spain by the privately-owned Fressek company, of Valencia. By agreement with *Madame Rosa Obiol Vinals,* whose late husband founded the firm in 1952, Cape has acquired a 42% interest in the business now incorporated as *Fressek S.A.* . . . In the construction of the new fruit and vegetable wholesale market in Birmingham, England, Asbestolux solved the problem of providing fire-

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ASBESTOS

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Sao Paulo, Rio de Janeiro

Bolivia: Tennants S.A., La Paz

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Colombia
Holanda Colombia, S.A., Bogota

Dominican Republic
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Mexico
Industrial Minera Mexico, S.A.
Mexico City

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

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

Venezuela
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resisting ceilings which could withstand high levels of moisture without deterioration. Asbestolux is a product of *Cape Boards and Panels Ltd.*

AMIANTIT A/C PIPE MADE IN OMAN

Amiantit-Oman S.A.O. has been manufacturing asbestos-cement pipes at its new factory near Rusail, Sultanate of Oman, since December. Current capacity of the plant is 36,000 tons a year, enough to satisfy future requirements of Oman for main water supply systems, sewerage networks, cable ducting and irrigation systems. Until the local market is sufficiently developed, Amiantit will be exporting approximately 80% of its production to United Arab Emirates and Saudi Arabia. The largest manufacturing enterprise in the Sultanate, Amiantit also makes polyethylene and PVC pipe.

INSULATION TASK FORCE FORMED

The *National Institute of Building Sciences* has formed a special task force on insulation. The 28-member force is composed of representatives from the U.S. Government, trade and professional associations, private industry builders and product manufacturers and public interest groups. Among its members are *John Autry of Johns-Manville Corporation, Jack Barnhart of the Thermal Insulation Manufacturers Association and J. P. Verhalen of the Sprayed Mineral Fiber Manufacturers Association, Inc.* The task force was created to investigate the mounting confusion at each step of the construction process surrounding the uses of insulation in all types of building throughout the United States. It is expected that recommendations concerned with the development and implementation of criteria and standards will be provided to the U.S. Congress, other Federal agencies, the building community and the public.

THE COVER—With the city skyline providing a picturesque backdrop, the front cover of this issue of ASBESTOS shows a striking example of the use of 1,960 Canalit asbestos-cement roofing elements on the new railway station at Durban, Natal, Republic of South Africa. For insulation purposes, the elements were coated on the underside with polyurethane and were installed over the parcels handling section. They were introduced after intensive research to provide an a/c material ideally suited for fulfilling modern trends toward extremely low-pitched roofs (minimum 3%). Canalit is a product of *Everite Ltd.*

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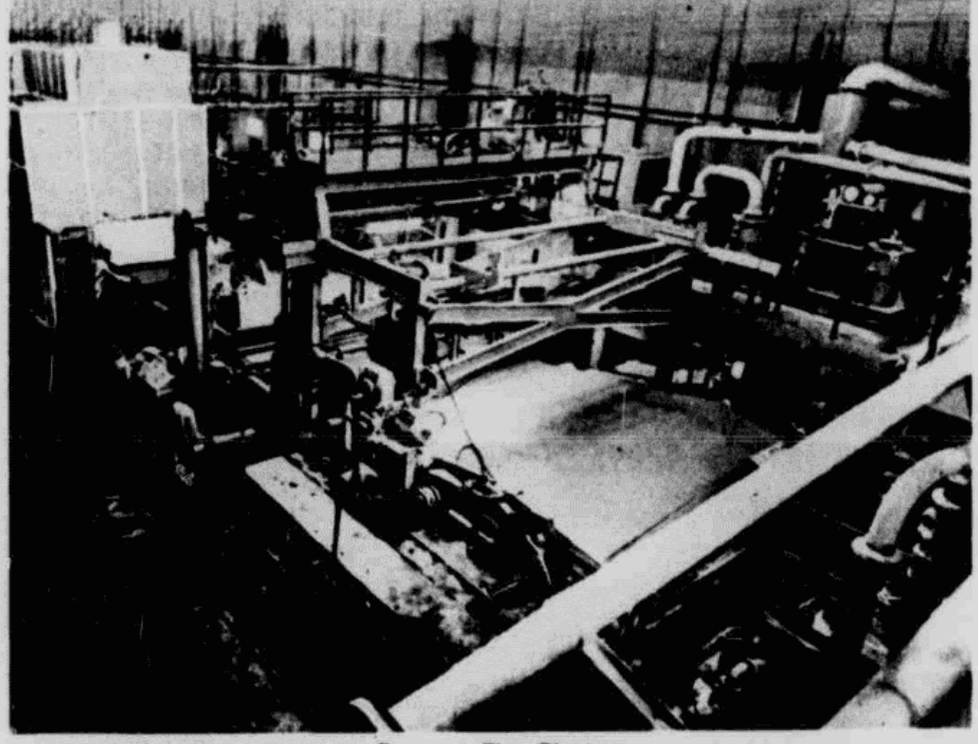
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MARKET CONDITIONS

GENERAL BUSINESS

As was generally predicted, business is recovering rapidly from the setbacks suffered during the coal strike and the severe weather of the winter just past. Particularly encouraging is the healthy first quarter increase in orders for non-defense durable goods led by record commitments for machine tools. Housing starts rose sharply in March after the February slump and awards for construction projects increased 23% over the year-ago figure. Although unemployment showed a slight rise in March, total employment registered an offsetting increase.

On the negative side, influenced by hefty increases in food prices, the urban consumer price index moved upward in March at an adjusted annual rate of 9.6%. At the same time, productivity decreased at an annual rate of 3.6%. While this figure is probably an aberration, it is nevertheless true that the U.S. has not been realizing the usual increases in productivity for some time and this is a very real obstacle in the fight against inflation. The settlement of the coal strike, involving labor increases of about 13% per year over a three-year span, is definitely inflationary and it is to be hoped it will not serve as a pattern for other settlements this year.

Mr. Carter has presented his anti-inflation proposals which, in placing great emphasis on voluntary wage and price restraint, bear much similarity to previous programs. However, his proposals to limit pay increases of government employees and to start examining the impact of certain government regulations on business costs indicate a dawning realization that government itself is a prime source of inflationary pressures. Statements of high administration officials are making it clear that they recognize the threat which inflation poses to long-run economic health and there now seems to be a sense of purpose, not previously apparent, to find and implement solutions to the problem.

In mid-April, with no substantial change in the economic situation, the stock market started a strong rally on record-high volume. Heavy trading at rising prices has continued in the face of some rather negative news including rising interest rates and a slight decline in the Index of Leading Economic Indicators. At this writing, the Dow Jones Industrial Average has gained over 100 points since the low of February 28. Whether and how far the rally will continue remains to be seen.

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HOUSING & CONSTRUCTION

MARCH 1978—The value of contracts for new construction was 23% higher than a year ago, as conditions in construction markets returned to normal. With March accounting for $12.3-billion in newly-started construction, the seasonally-adjusted Dodge Index (1967 = 100) registered 254, compared with 266 in February and 270 in January. For the first quarter of 1978 the Index averaged 263 and was virtually even with the same period a year earlier. . . . In March, housing rebounded as the weather improved, public works contracting slowed as Round II of the Federal jobs program ran out and commercial and industrial building came on strong. Contracting for *nonresidential* buildings, at $3.4-billion, was 18% above the value for last March. Not even the strong gains in stores, offices and factories could completely fill the void left by the expiration of the Local Public Works Act. But over the balance of 1978, further expansion of commercial and industrial building will be the construction market's main support. . . . The contract value in March for *residential* building (new housing), at $6.1-billion, was 15% above March 1977 and, after seasonal adjustment, was close to the 1977 final quarter peak rate. However, tightening credit conditions strongly suggest a fade out of the housing cycle in 1978. . . . Contracting for *nonbuilding* construction projects drew strength from gains in sewer facilities and electric power plants, as highway construction declined in March. The latest month's total, $2.8-billion, was up 57% from the year-ago amount—not as big a gain as it appears since the total of new nonbuilding construction last March was unusually low.

FIRST QUARTER 1978—Total construction contract value reached $31.4-billion in the first three months of 1978, 28% ahead of the same period a year earlier. The breakdown, by category, is $9.1-billion for nonresidential building (up 32%), $13.9-billion for residential building (up 18%) and $8.4-billion for nonbuilding construction (up 43%).

ASBESTOS FIBER

Demand appears to be strengthening for some grades of asbestos fiber, in particular, Group 7. Sales of Group 7 fiber to the resilient flooring industry continue to show improvement over the last half of 1977. Unofficial figures show Canadian shipments of asbestos for 1977 to be 1,590,835 short tons vs. 1,685,211 tons for the year 1976. Shipments of asbestos are not expected to strengthen significantly until the European building industry recovers and international customers reduce their inventories of fiber and finished products to more reasonable levels.

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U.S. ENVIRONMENTAL MATTERS

HEW TO INFORM PUBLIC

Major newspapers and television newscasts across the United States gave extensive coverage to a statement to the press issued April 26, 1978, by Joseph A. Califano, Jr., Secretary of the *U.S. Department of Health, Education and Welfare* (HEW), during which it was announced that HEW will launch a *public information campaign* to inform doctors, workers and others of the health risks associated with exposure to asbestos. The notification is of special importance, said Mr. Califano, because asbestos-related diseases take from 15-35 or more years to develop and "because recent studies have underscored that workers exposed in the past, especially those from the war years, may just now be facing immediate, serious health threats." He estimated that 8-million to 11-million workers have had some exposure to asbestos since the beginning of World War II.

The Secretary stated that the *Surgeon General of the U.S.* will immediately issue an advisory letter to the 400,000 doctors in the nation. The letter emphasizes, among other things, the importance of a discontinuance of smoking. A copy of the Surgeon General's letter and of a detailed question-and-answer paper of the *National Cancer Institute* were attached to the press release.

The public information proposal will be developed by HEW in consultation with other executive departments, unions, employees and other interested parties. In addition, the *U.S. Department of Defense* will work with HEW in taking appropriate steps to inform former military and federal civilian workers in naval shipyards.

OSHA MEDICAL EXAMINATIONS

The Asbestos Standard of the *U.S. Occupational Safety and Health Administration* requires employers to provide pre-employment, annual and termination medical examinations of employees exposed to airborne concentrations of asbestos fibers. There is, however, no quantitative exposure level in the regulation although OSHA's current policy is that medical examinations are not required when employee exposure levels are below 0.1 fiber per cubic centimeter of air. In contradiction, the OSHA Review Commission and the U.S. Court of Appeals have recently ruled that ex-

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aminations are required for all employees exposed to asbestos fiber, regardless of the exposure level. In view of these decisions, OSHA is now examining its present standard.

According to a staff analysis prepared by the *Association of Asbestos Cement Pipe Producers*, "these broad rulings will, in all likelihood, have little effect on a/c pipe manufacturing plants where employee medical examination programs are already operational. They do, however, raise some concern about OSHA's mentality on the pending *Construction Industry Standard for Asbestos*. OSHA could conceivably use these rulings as precedents to support mandatory medical surveillance at any level of exposure in the construction industry. The impact of that position, in terms of recordkeeping and red tape, would almost surely result in a switch to non-regulated alternate materials."

MORE REGULATING OF ASBESTOS?

Upon contacting the *Office of Toxic Substances, U.S. Environmental Protection Agency*, the *Asbestos Information Association/North America* learned that asbestos is second on the list of sixteen substances selected by EPA Administrator Douglas M. Costle for concentration under the Toxic Substances Control Act (TSCA). It was indicated that all aspects of the asbestos problem are under review and recommendations for further action as may be deemed appropriate are expected in about two months. Possible results could be the issuance of another regulation proposal under the Clean Air Act or the Water Pollution Control Act, notice to other federal regulatory agencies of the need for more initiatives under their respective statutes, or new regulations proposed under the provisions of TSCA.

ASBESTOS FROM CRUSHED STONE

The use of crushed serpentinite rock for roadway surfacing may release significant quantities of asbestos, according to EPA. Therefore, *a monitoring program is underway and results thus far indicate the Agency will issue a proposed standard,* perhaps by January 1979. For further information or discussion, contact Mr. Donald Goodwin, EPA, Research Triangle Park, North Carolina 27711—Telephone: 919-541-5271. [Federal Register of April 6, 1978; FTS 8-629-5271]

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PRODUCTION—IMPORTS—EXPORTS

AUSTRALIAN IMPORTS & EXPORTS

For the *Six Months Ended December 1977*, Australia *imported* 32,725 metric tons of asbestos valued at A$15,193,333, ahead of the same period a year earlier 1,666 tons and $3.5-million. The breakdown by variety of asbestos for the latest six months is: Chrysotile, 13,271 tons (down 2,324 tons), $6.4-million; Amosite, 9,579 tons (up 2,261 tons), $4.4-million; Other, 9,875 tons (up 1,669 tons), $4.4-million. Total asbestos imports from July-December 1976 were 31,059 tons valued at $11.7-million, from July-December 1975 were 26,085 tons valued at $8.1-million, and from July-December 1974 were 26,452 tons, valued at $4.8-million. . . . *Exports* of all types of asbestos for the *Six Months Ended December 1977* totaled 11,289 tons valued at $9,789,021 compared with 16,377 tons valued at $5.9-million to December 1976, 14,200 tons valued at $5.5-million to December 1975 and 9,196 tons valued at $1.5-million to December 1974. [Australian Bureau of Statistics]

CANADIAN FIBER SHIPMENTS

Primary Canadian producers' shipments of asbestos (including tonnage for own use) amounted to 107,525 short tons in *February 1978* compared with 120,278 tons (revised) for the second month of 1977. The cumulative total for *January-February 1978* was 203,534 tons: 169,978 tons from Quebec plants and 33,556 tons from plants in Newfoundland, Ontario, British Columbia and the Yukon. The total for January-February 1977 was 242,134 tons (revised): 194,591 tons (revised) from plants in Quebec and 47,543 tons from plants in the other four Provinces. [Statistics Canada]

CANADIAN PRODUCT IMPORTS

Canada imported $22,497,000 worth of asbestos-containing products in the *Year 1977* compared with $20,674,000 in 1976. A breakdown for the latest year is: vinyl-asbestos floor and wall tiles—$208,000 (126,826 square yards); asbestos cloth, dryer felts and sheets—$3,949,000; asbestos packing—$2,087,000 (1,476,785 pounds); asbestos brake linings—$4,612,000; asbestos clutch facings—$1,305,000; asbestos-cement shingles and siding—$88,000; asbestos-cement boards and sheets—$525,000; other asbestos building materials—$5,933,000; other basic asbestos products—$3,790,000. . . . Imports of unmanufactured asbestos totaled 4,533 tons in 1977, valued at $2,035,000 vs. 6,616 tons valued at $2,966,000 a year earlier. In the latest year, 2,974 tons valued at $1,712,000 were imported from South Africa and 1,559 tons valued at $323,000 were imported from the United States. [Statistics Canada]

U.S. IMPORTS OF AMOSITE & CROCIDOLITE FROM SOUTH AFRICA—Of interest to many of our readers will be a statistical compilation prepared by Mr. R. A. Clifton of the U.S. Bureau of Mines which indicates that during the six-year period from 1940 through 1945, the United States imported 112,842 tons of asbestos from the Republic of South Africa, of which 102,420 tons were Amosite and Crocidolite.

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IMPORTS INTO THE UNITED STATES

From: U.S. Bureau of the Census

UNMANUFACTURED ASBESTOS:		JANUARY 1978	
Amosite	s.tons	..	$ ..
Crocidolite (Blue), South Africa	s.tons	1,573	1,067,017
Chrysotile Crudes, South Africa	s.tons	231	142,402
Chrysotile Spinning Fibers, Canada	s.tons	523	428,931
Chrysotile, Other, Canada	s.tons	40,603	11,297,152
Mexico	s.tons	34	349
Yemen	s.tons	48	28,578
Other Crudes & Fibers, Canada	s.tons	660	129,512
South Africa	s.tons	150	94,738
		43,822	$13,188,681
MANUFACTURED ASBESTOS PRODUCTS:			
Asbestos yarn, cloth, tape, etc.	Lb	1,154,660	$ 1,820,359
A-C pipes, tubes & fittings	Lb	648,431	70,441
Other asbestos-cement articles	Lb	1,838,759	331,895
Other asbestos articles		..	658,456
			$ 2,881,151

In January 1977, U.S. imports of unmanufactured asbestos totaled 48,164 short tons, valued at $11,921,148. Imports of manufactured asbestos products were valued at $1,553,564.

EXPORTS FROM THE UNITED STATES

From: U.S. Bureau of the Census

UNMANUFACTURED ASBESTOS:		JANUARY 1978	
Asbestos Crudes, Fibers & Stucco	s.tons	1,348	$ 559,921
Asbestos Sand & Refuse	s.tons	1,739	438,811
		3,087	$ 998,732
MANUFACTURED ASBESTOS PRODUCTS:			
Asbestos yarn, cloth, tape, etc.	Lb	777,818	$ 729,454
Asbestos-Cement shingles & clapboard	Lb	2,085,982	418,423
Other asbestos-cement articles	Lb	1,177,045	783,450
Asbestos gaskets	Lb	142,379	168,562
Asbestos packing & seals	Lb	1,609,898	1,263,544
Asbestos insulation		..	651,168
Brake linings & disc brake pads		..	1,962,874
Clutch facings & linings		..	944,269
Other asbestos articles		..	1,217,069
			$ 6,921,744

In January 1977, U.S. exports of unmanufactured asbestos reached 3,122 short tons, valued at $881,796. Exports of manufactured asbestos products were valued at $4,231,311.

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EXPORTS FROM CANADA

From: Statistics Canada

JANUARY 1978

Short Tons

UNMANUFACTURED ASBESTOS:	Crude	Milled Gp3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	399	12,778	6,297
Eastern Europe	..	..	1,025	205
Middle East	..	..	2,010	949
Africa	..	..	..	..
Asia	..	325	10,837	11,119
Oceania	..	2	1,615	412
So. & Cen. America & Antilles	..	116	7,338	2,838
United States	..	564	9,691	27,099
	..	1,406	45,294	48,919

The total amount of unmanufactured asbestos exported in *January 1978* was 95,619 short tons, valued at $35,339,000.

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos cloth, dryer felts & sheets	$ 188,000
Asbestos brake linings & facings	221,000
Asbestos-Cement building materials	771,000
Other basic asbestos products	370,000
	$ 1,550,000

In January 1977, Canadian exports of unmanufactured asbestos totaled 130,253 short tons, valued at $41,132,000. Exports of manufactured asbestos products were valued at $964,000.

Still Available . . . .

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

CHRYSOTILE ASBESTOS TEST MANUAL, 3RD EDITION—Prepared jointly by the Asbestos Textile Institute, Inc., and the Quebec Asbestos Mining Association; provides 34 standard methods for testing the physical and chemical properties of Chrysotile asbestos fiber. [$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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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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THE MINING SCENE

WOODSREEF SEEKS EMERGENCY AID

It has been reported that the asbestos mining operation at Barraba, New South Wales, owned by *Woodsreef Mines Ltd.* and operated by its subsidiary, *Chrysotile Corporation of Australia Pty. Ltd.*, continues to operate at a substantial loss. Chrysotile Corporation has been in receivership since November 1973 and the *Commercial Bank of Australia* has been acting as receiver-manager. The Bank, which has been financially supporting the company since it began operating in 1972 (some $19-million is now owed), has told the company it is not prepared to continue injecting new funds to meet the mine's operating losses. Meanwhile, Woodsreef management has requested the Barraba facility be examined by the *Australian Industries Assistance Commission.* Since the process could take six months, the company has also asked for immediate financial aid from the Federal Government. The mining firm's problems stem from a world surplus of asbestos, the gradual appreciation of the Australian dollar against the Canadian dollar, discounting and abnormal competition in the world marketplace, the cancellation last year of two large orders, and equipment difficulties. The problems being experienced by Woodsreef are expected to reduce progressively from now on with the availability of better ore and when new, more efficient milling equipment is installed. Also, news reports indicate that a Canadian asbestos price increase for 1979 will be announced in September which would prove beneficial for Woodsreef Mines.

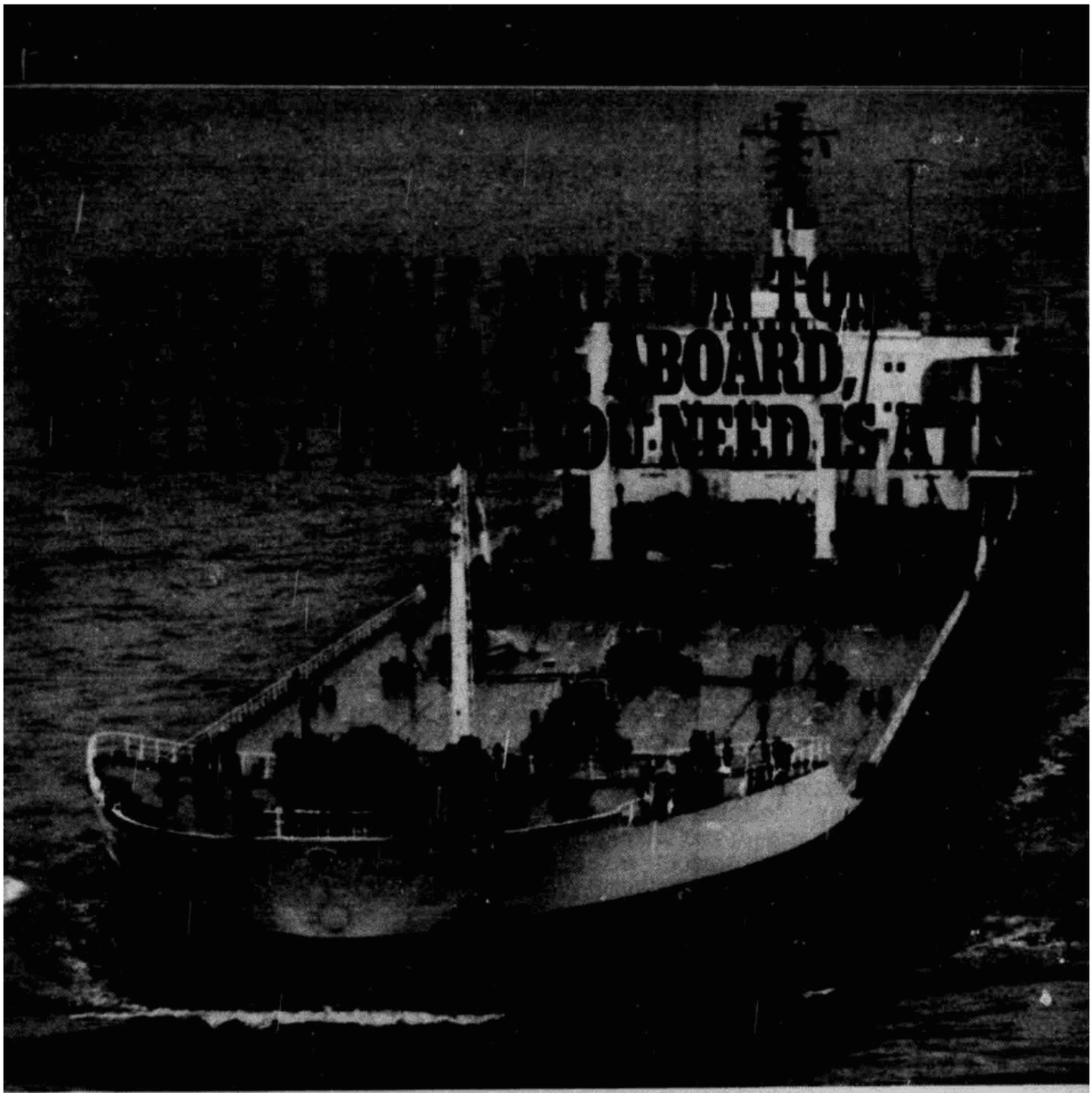
CAREY OPENING NEW PIT

Carey-Canadian Mines Ltd. is developing a new open pit, known as pit A, six miles from its mining installations at East Broughton, Quebec. When this third pit is worked at full capacity it will provide 2,000 tons of ore per day. The opening of pit A will allow continued feeding to the mill at East Broughton after pit B is finally worked out. A depth of 320 feet has been reached at pit B and production will soon be terminated. Another pit, called pit C, provides 4,000 to 5,000 tons of ore each day and is now 405 feet deep. Company management estimates the mine will continue producing fiber for twelve years. [CAMA Bulletin]

LAC ROBERGE STILL UNDER OPTION

As reported in past issues, *Riocanex* has elected to not proceed at this time, because of the current situation with the *Government of Quebec*, with further development of the asbestos deposit at Lac Roberge, in northwestern Quebec, owned by *McAdam Mining Corporation Ltd.* Riocanex is, however, maintaining its option in good standing and, in fact, several senior officers of McAdam were recently in Quebec City discussing the

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situation with top ranking Provincial officials. According to a comprehensive report prepared by *General Engineering Co., Inc.*, on bulk samples from McAdam's C zone, good potential markets for the slip-fiber Chrysotile fiber are asbestos-cement products (excluding pressure pipes), asbestos paper, friction materials and sheet packing. The fiber would not be satisfactory for use in asbestos-cement pressure pipes because of low reinforcing values, in floor tiles because of low reflectance, nor in electrical insulating materials because of high magnetic content. [The Northern Miner]

CHANGE OF MANAGEMENT AT VAG

During the very stormy annual stockholders meeting of *Vermont Asbestos Group, Inc.*, on April 8, 1978, *Howard A. Manosh* won control of the company when all but one man on his 15-member slate was elected to the Board of Directors, ousting the previous management. Mr. Manosh was elected Chairman and President of VAG replacing the previous President of only six weeks, *David A. Winer*. Mr. Winer will not be retained by the company. *Jerome Hammang*, who had been dismissed as President in early March, was elected a Director on the new Board and was promptly named Vice President and second in command to Mr. Manosh. VAG will continue with the present management of its $2-million asbestos wallboard subsidiary at Morrisville, Vermont, including General Manager *John Lupien*, former VAG Board Chairman.

GRECIAN ASBESTOS, A PRIORITY ITEM

The *Government of Greece* has given priority to the development of asbestos at the Zindanion Mines near Kozani. The project will be carried out by the *Hellenic Industrial Development Bank* through the bank's own company, *Asbestos Mines of Northern Greece S.A.* Eventually shares of this company will be turned over to the private sector. Last November, Asbestos Mines applied formally for approval of a $68-million investment to establish a 100,000 tons-per-year asbestos fiber plant. The plant is scheduled to begin operating in May 1980 and will employ over 300 persons. About 75% of the fiber output will be for export. *Kilborn Engineering Ltd.*, Toronto, Ontario, has been appointed Technical Advisor for construction of the plant. Asbestos ore reserves at Kozani have been revised to 90-million tons.

CYPRIOT ASBESTOS APPEAL

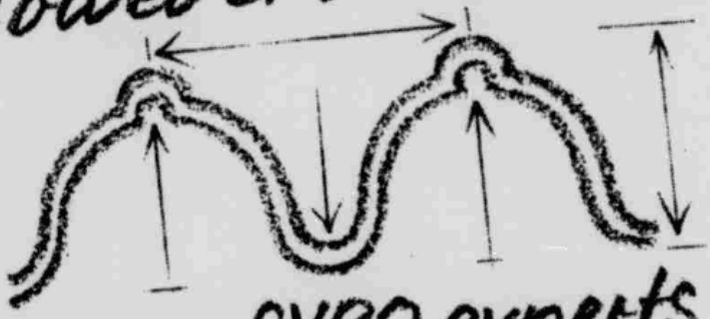
Cytechno Ltd., Nicosia, Cyprus, is seeking permission to begin asbestos mining in the Troodos Mountains. The company is appealing against a decision reached in 1970 by the Inspector of Mines to not renew prospecting licenses because of the effect mining would have on tourism in the area. Cytechno claims the decision is annually costing the Cyprus economy some $190.6-million. [Mining Magazine]

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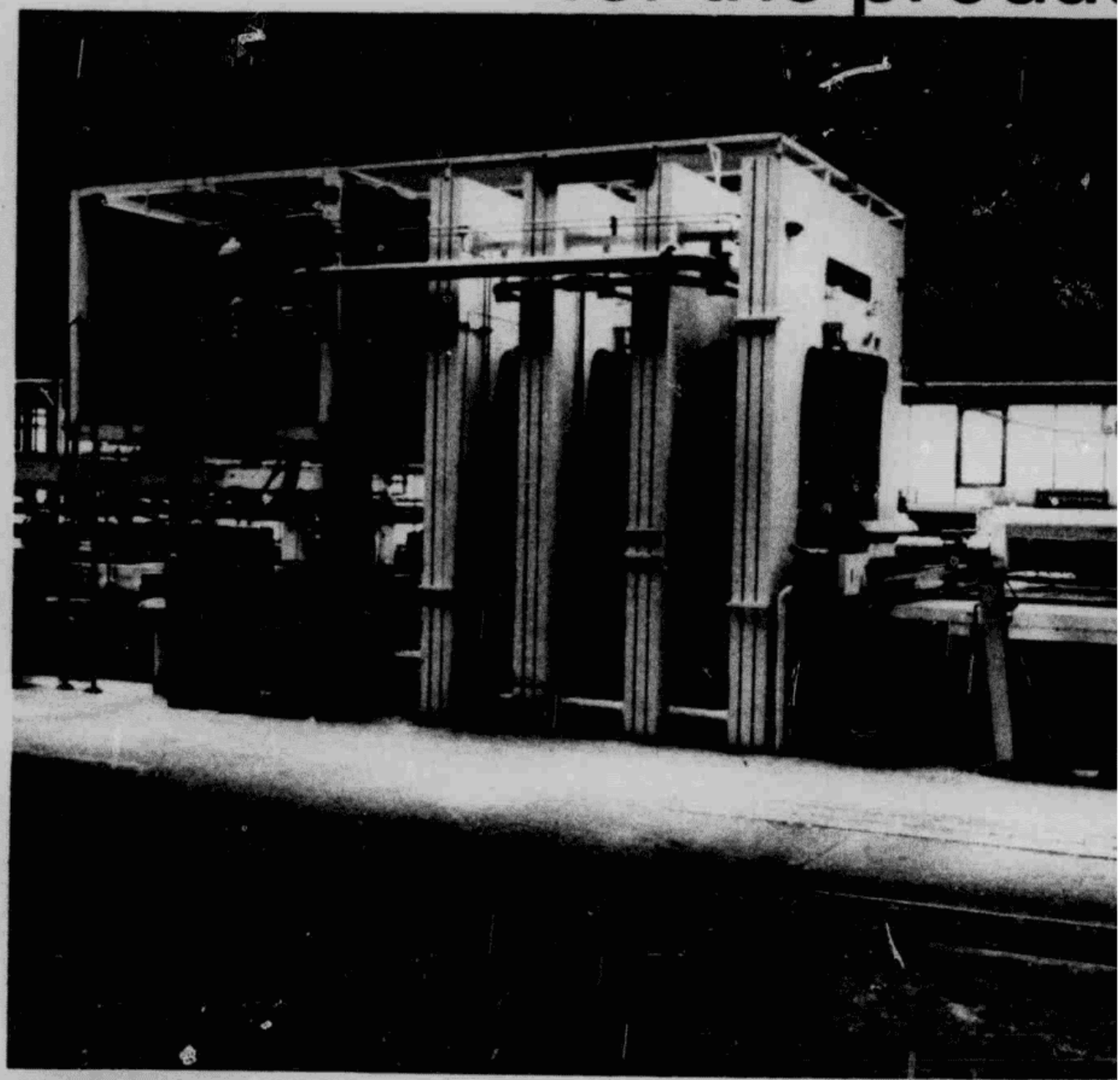
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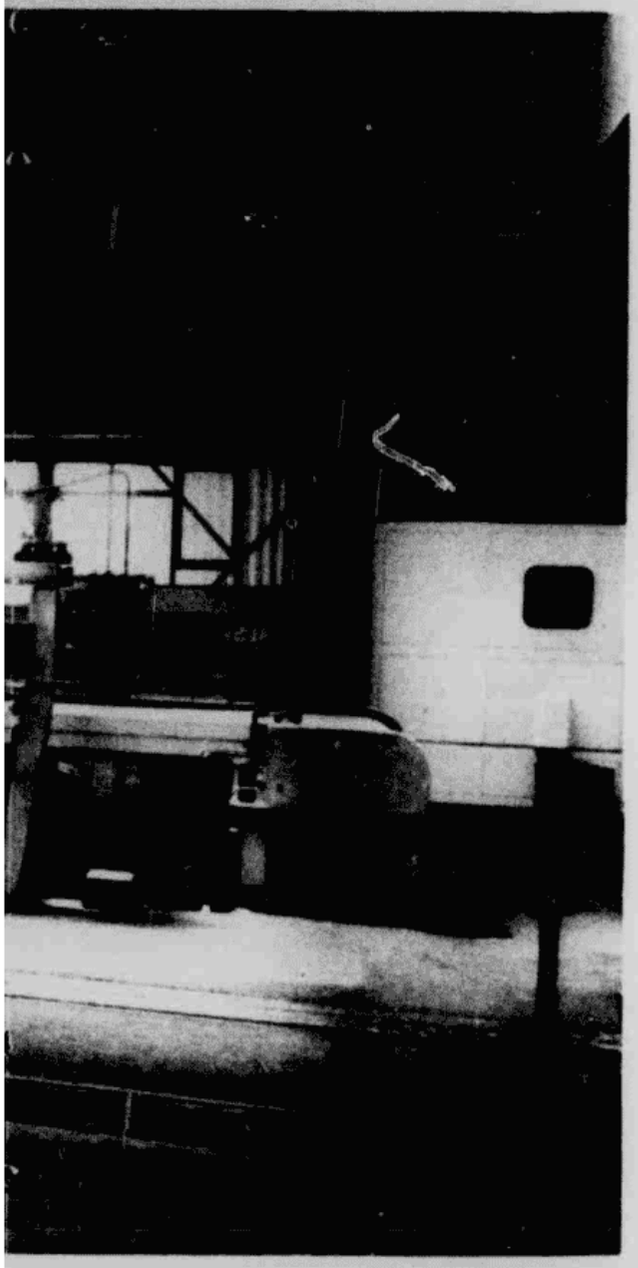
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ANNUAL REPORTS—1977

CASSIAR ASBESTOS CORPORATION LTD.

Net income in 1977 for Cassiar Asbestos Corporation Ltd. was $19,565,945 or $3.56 per share compared with $11,839,556 or $2.15 per share in 1976. Capital expenditures were $13,118,983 against $10,870,960. . . . Cassiar Asbestos reports that its sales target for 1977 was met in spite of a softening of the market in both textile and cement grade fibers. Asbestos sales in 1977 totaled 212,711 tons valued at $115,077,217 vs. 175,461 tons valued at $78,285,544 in 1976. Fiber production was at the record level of 212,284 tons against 191,417 tons in 1976. At the Cassiar Mine, 1,321,065 tons of ore were mined and 107,060 tons of fiber were produced. Fiber sales reached 103,513 tons valued at $61,321,000 compared with 63,995 tons valued at $33,704,000 the previous year. Recoverable mine grade was 8.18% in 1977 and 8.43% in 1976. . . . At the Clinton Creek Mine, 1,978,318 tons of ore were mined and 105,224 tons of fiber were produced. Fiber sold amounted to 109,198 tons valued at $53,756,000 in 1977 against 111,466 tons valued at $44,582,000 in 1976. Recoverable mine grade was 6.18% in 1977 and 6.08% in 1976. A substantial contributor to total profits of the corporation, the Clinton Creek Mine is expected to close mid-1978 due to the exhaustion of mineable ore.

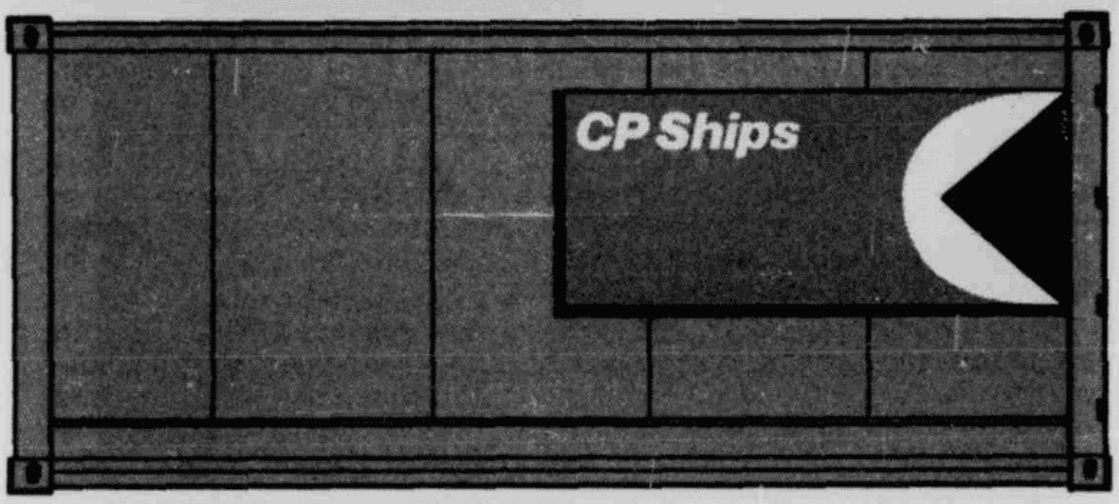
Ore Reserves—At December 31, 1977, ore reserves at Cassiar, mineable by open-pit methods, were calculated at 16,277,000 tons. During the year the mineable ore reserves at Clinton Creek were reduced by 1,099,682 tons due to the inability to continue mining the Porcupine orebody because of the deterioration and subsequent instability at the pit walls. Clinton's mineable reserves at year end were 770,000 tons.

Environment—At the Cassiar Mine, a continued improvement in airborne fiber counts is being achieved with greater maintenance and dedicated efforts on the part of employees and management to keep working places clean and free of dust. The new air system for the mill has not yet come on stream due to some construction deficiencies but it is expected to be operational early in 1978. Once the additional air is available, a further improvement in the working environment is expected. A new change house for employees was completed in May and has been operating effectively since then. . . . Medical research indicates the incidence of lung cancer in persons exposed to asbestos dust is many-fold greater among smokers. A leading authority states that the likelihood of a non-smoker, occupationally exposed to asbestos dust, of developing lung cancer is no greater than in the public-at-large. A concerted effort is being made by Cassiar to encourage employees to stop smoking. Courses on smoking cessation were conducted at all operations. . . . Due to the efforts of union and management, air quality at the Clinton Creek Mine and in the plant has been kept within the standard set by the Yukon Territorial Government.

Transport Division—Plans, currently under development, will provide for the transport of fiber from the Cassiar Mine to Vancouver via Stewart, British Columbia, a port at the head of the Portland Canal. Stewart is 320

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road miles from the Cassiar Mine. With the anticipated closure of the Clinton Creek Mine in mid-1978, the Transport Division, which has well served Cassiar Asbestos' interest since its inception in 1954, will be closed.

Transportation—Plans are well advanced to have a common carrier, Arrow Transportation Systems, Inc., handle the entire transportation of asbestos fiber from the mine site to Vancouver. The new system involves moving container loads of asbestos by specially-designed truck-trailers transport from the mine site to the British Columbia port of Stewart, and on to Vancouver by tug and barge. At Vancouver the asbestos will be loaded into deep sea ships for overseas customers or into trucks or box cars for the Canadian and U.S. market.

Marketing Division—This Division, newly formed in 1977, is now an organized and responsive corporate function. It is composed of five departments, i.e., Sales, Sales Administration, Traffic, Truck Transport and Asbestos Wharf. The marketing function includes negotiating on customer's behalf freight rates with worldwide carriers and shipping conferences, complete documentation permitting the uninterrupted flow of fiber from the mine gate to a customer's receiving door, negotiating Letters of Credit, and booking space on vessels and surface carriers to domestic and overseas destinations around the world. In addition, the Marketing Division provides direct technical assistance to customers through key operating personnel from the mine, mill and laboratory, plus the facilities of the Ontario Research Foundation. Cassiar's customers are located in 45 different countries.

Exploration—During 1977, $475,195 was spent on exploration work. A diamond drilling program was carried out at the asbestos prospect at Kutcho Creek, in northern British Columbia. Results were encouraging enough for the Directors of Cassiar to consider continuing the drilling program during the summer of 1978. . . . A geochemical and soil sampling program was carried out on a uranium prospect at Grand Forks, in southern British Columbia, and various other prospects were submitted for examination during the year, some of which will require follow-up in 1978.

ASBESTOS CORPORATION LTD.

Dividends totaling $1.60 per share were paid in 1977 compared with $1.25 per share the previous year for Asbestos Corporation Ltd. Net income for the year was $21,021,000 ($7.40 per share) against $20,422,000 ($7.19 per share) in 1976. Sales totaled $145,344,000 vs. $151,368,000. Operating costs increased in 1977 as a result of the change in operations whereby open-pit ore from the King-Beaver Mine is now processed at the Normandie Mill and because of increased provision for Workmen's Compensation and more costs for labor and materials. . . . On October 21, 1977, the Province of Quebec announced its intent to acquire control of Asbestos Corporation, initially through the purchase of shares held by General Dynamics Corporation (54.6%) and subsequently through the acquisition of all other shares. . . . In 1977, approximately $11-million was

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spent or committed at Thetford Mines and Asbestos Hill for environmental control purposes. In 1978, an additional $17-million will be spent to further improve environmental conditions.

Sales—Asbestos remained in strong demand throughout 1976 and the first half of 1977 as consumers rebuilt inventories depleted by the labor and operational difficulties in the Quebec mines in 1974 and 1975. World economies have not yet returned to satisfactory growth rates. In most parts of the world, asbestos-cement products are highly utilized for water and sewer pipes and siding and roofing for homes, commercial and industrial buildings. Close to 70% of the world's supply of asbestos is consumed in asbestos-cement production. Asbestos Corporation has the capacity to annually produce 330,000 tons of asbestos fiber, or about 12% of the Western World's production. Some 85% of its production is in grades suitable for the asbestos-cement sector.

Ore Reserves—Following completion of the major expenditure program at Asbestos Hill, at Putuniq, Ungava, in New Quebec, the ongoing exploration and diamond drilling undertaking at Thetford Mines has significantly increased proven ore reserves at the King-Beaver and British Canadian Mines. Proven ore reserves at year-end 1977 were 226,243,000 tons: 85,189,000 tons at the British Canadian Mine, 73,311,000 tons at the King-Beaver Mine, 31,638,000 tons at the Normandie Mine, 18,185,000 tons at Asbestos Hill and 17,920,000 tons at other properties. Present proven ore reserves at Thetford Mines, assuming a 1977 mining rate of approximately 8-million tons of ore, are sufficient for over 25 years. In addition, there are 100-million tons classified as probable ore and 205-million tons classified as possible ore.

Thetford Operations—The mines and mills in the Thetford area operated at close to capacity for most of the year. After 24 years of operation, the Normandie open pit reached the end of its useful life and was closed in November. The King-Beaver open pit and ore preparation plant were reactivated in May and attained full production in November. The King-Beaver underground operation continued to supply non-beneficiated ore to the British Canadian plant. Operating statistics for the Thetford Mines area in 1977 were 22,882,000 tons of rock mined, 8,208,000 tons of ore processed and 209,200 tons of asbestos produced.

Asbestos Hill/Nordenham—The open pit and mill at Asbestos Hill produced 258,300 tons of ungraded fiber compared with 223,700 tons in 1976. Production targets were attained and, in addition, large filter plants were installed in the mill and on the dryer exhaust gases resulting in substantial dust reduction. The fiber produced at the finishing mill at Nordenham, West Germany, continues to be of high quality. Operations were reduced to a three-day week in early October due to a decline in demand. Operating statistics in 1977 for the Asbestos Hill/Nordenham operation were 6,515,000 tons of rock mined, 1,499,000 tons of ore processed, 258,300 tons of ungraded fiber produced and 79,300 tons of asbestos produced.

Exploration—Minorex Ltd., the exploration company wholly-owned by Asbestos Corporation, was reactivated in 1977. Several interesting exploration targets were investigated and follow-up work is continuing.

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ASARCO INC.

Asarco Inc. states the year 1977 was disappointing in that it was the first loss year since 1932 and the second loss year in its 78-year history. Although the markets for lead, silver, asbestos, recycled metals and various other products were satisfactory, conditions affecting two of the company's important products (copper and zinc) were very poor. For the year ended December 31, 1977, Asarco had a net loss of $29,506,000 or $1.10 per common share compared with earnings of $42,313,000 or $1.58 per share in 1976. Sales of products and services were $1,045,794,000 against $1,103,737,000.

Capital expenditures for environmental control at U.S. mines and plants since 1969 have totaled $186-million. In 1977 environmental costs were over $55-million. The costs to comply with environmental regulations are paid for by corporate customers via increased prices or by corporate stockholders in reduced earnings and dividends. In Asarco's case the stockholders are bearing the burden. It is not possible for the company to pass on these costs through higher prices because the U.S. market is open to foreign producers who stand ready to supply their products at world prices.

Lake Asbestos of Quebec Ltd., a wholly owned subsidiary of Asarco, set a new profit record in 1977 despite a weakening in demand in the fourth quarter of the year. Production at its two large asbestos mines in Canada was also at a record level—255,000 tons in 1977 compared with 248,000 tons in 1976. Asbestos sales were 244,000 tons vs. 247,000. . . . Lake Asbestos spent $3-million in 1977 to comply with environmental and occupational health standards governing the concentration of asbestos fibers in the air; almost double the amount spent in 1976. In addition, another $2-million to $3-million for this purpose is anticipated over the next two years. . . . The outlook for asbestos markets in 1978 is uncertain. Economic conditions are not strong in a number of the developing countries where large amounts of asbestos-cement sheets are used as a cost-effective building material. Also, fiber from the Soviet Union has been appearing on the market in increasing quantities. A further element of uncertainty is the announced intention of the Provincial Government to participate more directly in the Quebec asbestos industry.

ADVOCATE MINES LTD.

Advocate Mines Ltd. reported a net income for the year 1977 of $3,409,032 compared with $4,429,130 in 1976. Earnings per share were 57¢ vs. 64¢. Net income would have been greater except for a very significant failure in the east wall of the North Pit which started in late November and adversely affected production. Working capital at the end of the year was $4,221,299 against $3,707,353 a year earlier. Retained earnings increased from $7,578,279 at the beginning of the year to $9,877,311 at year end.

Production in 1977 was 75,318 metric tons of fiber valued at $34,474,542 compared with 84,446 tons and $31,790,277 in 1976. Waste-to-ore ratio was 4.0:1 in 1977 (4.3:1 in 1976) and the percentage of mine

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FLINTKOTE ASBESTOS



Take it from our very best customer

That's us. The Flintkote Company. We recommend it to you too. After all, we use Flintkote asbestos in many Flintkote products. Like floor tile; roofing shingles; felts and building papers; and industrial coatings.

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THETFORD MINES, QUE.
CANADA

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ore recovered was 3.67% (4.06% in 1976). During the year under review, 64,759 tons of fiber were shipped.

Advocate entered into fiber sales contracts with Compagnie Financiere Eternit S.A. and Johns-Manville Sales Corporation under which the latter has agreed to purchase substantially all of Advocate's production through 1985 and, at the option of the parties, for an additional five-year period. These contracts provide Advocate with assured markets for its production.

At December 31, 1977, ore reserves were 42,339,000 tons, stockpile inventory was 502,000 tons with an estimated recovery of 2% A-25 fiber, and fiber inventory, at a net realizable value of $7,331,774, was 12,243.45 tons of A-25 fiber and 5,718.75 tons of A-35 fiber.

Projects at the crushing, drying and mining facilities to improve environmental conditions included: 1) installation of a bag filter to reduce the emission of dust from the primary crusher; 2) start of construction of a bag collector system to control dust emission from the secondary crushing and drying building; 3) purchase of equipment to increase the efficiency of the mill vacuum system and to better housekeeping conditions; and 4) installation of individual dust lines to each pressure packer to increase the amount of air for better dust control.

ASBESTOS STOCK QUOTATIONS

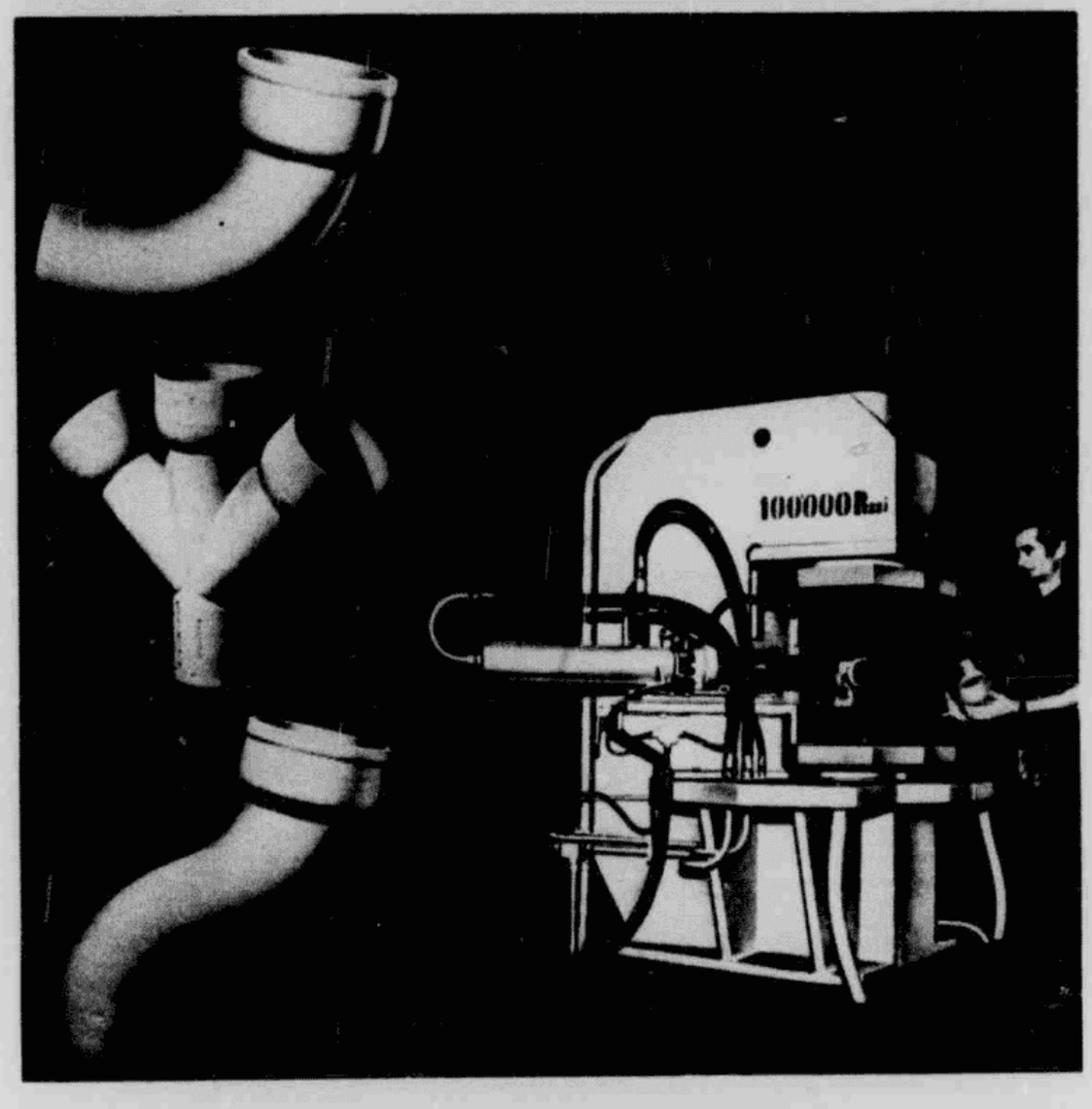
Close—April 18, 1978

Abitibi Asbestos	C$.95
Advocate Mines	C$3.05
Armstrong Cork	18⅜
Asarco	18⅛
Asbestos Corporation	C$39.00
Bendix	37¾
Bendix (pfd 3)	75
Carlisle	25¼
Cassiar Asbestos	C$8.975
CertainTeed	22¾
Charter Conso.	pence 124
Colt Industries	50⅞
Colt Ind. (pfd 1.60)	27¼
Colt Ind. (pfd 4.25)	73
Conwest	C$4.50
Flintkote	23
F-kote (pfd-B 2.25)	30½
GAF Corporation	11¾
GAF (pfd 1.20)	17
Gulf & Western	13⅝
G&W (pfd 2.50)	32¾
G&W (pfd 3.87)	67
G&W (pfd 5.75)	71¼
IC Industries	23¼
IC Ind (pfd 3.50)	42½
Jim Walter Corporation	31
Jim Walter (pfd 1)	12
Jim Walter (pfd 1.60)	33½
Johns-Manville	30¾
Kennecott Copper	25½
Lear Siegler	17⅝
Lear Siegler (pfd 2.25)	43¾
Maremont	18⅞
McAdam Mining	C$.30
National Gypsum	16½
Pathfinder. Bid C$.23; Asked C$.26	
Raybestos-Manhattan	29⅝
Rio Algom	C$31.75
Supradur	Bid 5⅞; Asked 6⅜
Union Carbide	40¾
Woodsreef Minerals	C$.57

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ISPRA s.p.a.

Paderno Dugnano (Milan) — Italy —
Telex: 36113



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

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ispra — Automatic INJECTION Plants

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MEN ON THE MOVE

ASARCO INC.

Richard J. Boehm was appointed Manager-Field Personnel Operations, it was announced by *Douglas Soutar*, Vice President-Industrial Relations for Asarco Inc. Mr. Boehm will be responsible for the administration of workers' and unemployment compensation systems and will assist in the monitoring of medical, disability and pension cost control as well as developing plant personnel procedures and supervisory and management development programs. He joined Asarco in 1955.

ASBESTOS CORPORATION LTD.

Wolfgang Graeser has been named Vice President-European Operations for Asbestos Corporation Ltd., responsible for sales in Europe, the Middle East and Africa. In addition, he has overall charge of the corporation's processing facility at Nordenham, West Germany.

CAPE INDUSTRIES LTD.

New top executives of Cape Insulation Services Ltd. are *W. R. Doughty*, Chairman; *D. Llewellyn*, Deputy Chairman; *J. J. Burke*, Managing Director; and *C. A. Hutchison*, Sales Director. These gentlemen, along with *G. A. Higham*, are also Directors of the Cape subsidiary.

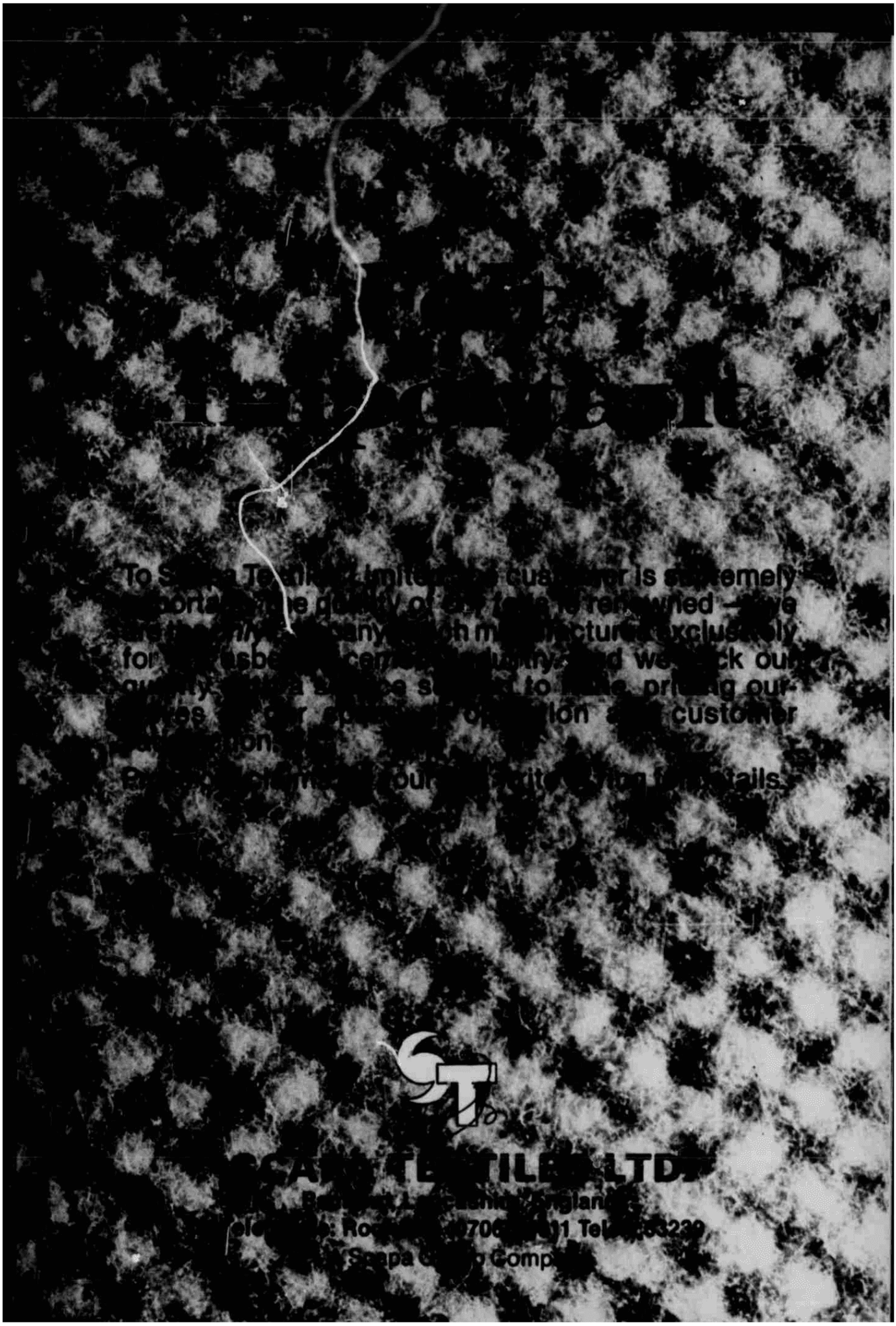
CERTAINTEED CORPORATION

Joseph G. LaCroix is now President of the Shelter Materials Group, CertainTeed Corporation, responsible for the sale of residential insulation products and the manufacture and marketing of residential and commercial roofing products. He joined the company in 1957 as a sales trainee. . . . *Jack H. McDowell* was appointed President of the Building Materials Distribution Group, succeeding Mr. LaCroix. Mr. McDowell joined the firm in 1972 and had been President of the Utility Supply Group.

TURNER & NEWALL LTD.

F. E. Mills did not seek re-election as a Director of Turner & Newall Ltd., on medical grounds. He had been Chief Executive of the Plastics and Industrial Materials Division and Chairman of British Industrial Plastics Ltd. He had been with BIP and T&N for 44 years. . . . Mr. Mills was succeeded in the above positions by *D. W. Hills*, also a T&N Director. . . . As of April 1, *R. D. N. Somerville* has succeeded Mr. Hills as Chief Executive of the T&N Construction Materials Division and as Chairman of TAC Construction Materials Ltd. and of Newalls Insulation Company. Mr. Somerville was also named a Director of T&N. . . . Recently appointed executives of Engineering Components include *R. P. Druett* as Deputy Chairman and *P.N. Stockton* as Joint Managing Director. . . . *D. G. Carruthers* succeeds Mr. Druett as Managing Director of British Industrial Plastics.

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BIRTHDAY GREETINGS to . . .

D. H. Pillinger, Managing Director, BBA Automotive Ltd., a subsidiary of BBA Group Ltd., Cleckheaton, Yorkshire, England, June 16.

Wolfgang Graeser, Vice President- European Operations, Asbestos Corporation Ltd., Montreal, Quebec, June 19.

James F. Maclachlan, President-Industrial and Consumer Products and a Senior Vice President, Raybestos-Manhattan, Inc., Trumbull, Connecticut, June 19.

D. O. Poirier, General Manager, Flintkote Mines Ltd., Thetford Mines, Quebec, June 19.

Jean Gaudry, Sales Director-North and South America and the Caribbean and Director of Marketing, Asbestos Corporation Ltd., Montreal, Quebec, June 21.

Michael Prus, President and General Manager, Carey-Canadian Mines Ltd., East Broughton, Quebec, June 21.

Frederick S. Daly, President, RM Friction Materials Company, and a Senior Vice President, Raybestos-Manhattan, Inc., Trumbull, Connecticut, June 22.

John W. Weber, Chairman of the Board and Chief Executive Officer, Amatex Corporation, Norristown, Pennsylvania, June 22.

H. A. Guettinger, Technical Manager, Everite Ltd., Braamfontein, Johannesburg, Republic of South Africa, June 23.

A. S. Johnson, Vice President-Sales, Asbestos Corporation Ltd., Montreal, Quebec, June 23.

Marcel Dorais, President and General Manager, Bell Asbestos Mines Ltd., Thetford Mines, Quebec, June 25.

S. M. Dougherty, Managing Director, Cape Asbestos South Africa (Pty) Ltd., Johannesburg, Republic of South Africa, June 25.

J. F. H. Main, Managing Director, Trist, Draper Ltd., Bristol, England, June 26.

Lutz Siebert, International Sales Manager, Asbestos Fiber Division, Johns-Manville Sales Corporation, Denver, Colorado, June 27.

Robert A. Carlson, Vice President, Special Materials, Inc., Milwaukee, Wisconsin, June 30.

Paul D. Morrell, Vice President, Johns-Manville Sales Corporation, and Operations Manager, Sealing Components Department, Johns-Manville Corporation, Denver, Colorado, July 1.

C. A. Scott, Managing Director, Cape Universal Claddings Ltd., Watford, Hertfordshire, England, July 5.

R. P. Druett, Deputy Chairman, Engineering Components Ltd., a Turner & Newall company, Slough, England, July 7.

Roland P. Gagnon, Vice President-Sales, Lake Asbestos of Quebec Ltd., Black Lake, Quebec, July 7.

J. W. Echerd, Director of Research and Development, Southern Asbestos Company, Charlotte, North Carolina, July 9.

Donald L. Andrew, Secretary, Pacor Inc., Philadelphia, Pennsylvania, July 11.

I. L. Taylor, Vice President-Sales, Cement Asbestos Products Company, Birmingham, Alabama, July 12.

John F. Sullivan, Jr., Chairman of the Board, A & M Insulation Company, Chicago, Illinois, July 13.

Robert L. Folkman, Senior Vice President, Metals Division, Union Carbide Corporation, New York City, July 14.

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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.

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In Memoriam

C. BRANTON WHEATLEY
MARCH 30, 1978

C. Branton Wheatley, 58, Chairman of the Board and Chief Executive Officer of Pacor Inc., passed away March 30, 1978. He began his career in the insulation industry when he joined Pacor (then the Philadelphia Asbestos Corporation) in 1937 as a warehouse worker. In 1960 he was elected President and last year was named Chairman of the Board. For the past twelve years Mr. Wheatley had been active in the Philadelphia Insulation Contractors Association and was instrumental in setting up the highly-successful Joint Apprenticeship Program in Philadelphia. He held a variety of positions with PICA and served on the Board of Directors and as President of the National Insulation Contractors Association, as President of the Eastern Atlantic States Contractors Association and as a Director of Amatex Corporation. Just two months ago Mr. Wheatley was named Man of the Year by NICA for his lifetime of service to the insulation industry.

MALCOLM MEYER
APRIL 4, 1978

Malcolm Meyer, age 62, died April 4, 1978. He was retired Chairman of the Board and Chief Executive Officer of CertainTeed Corporation. A native of Alameda, California, Mr. Meyer received a bachelor of science degree at the University of California, did post-graduate work at Columbia University and received an honorary doctoral degree from Villanova University in 1972. He joined CertainTeed as a traffic clerk in 1937, and became a Department Manager in 1948, General Sales Manager in 1949 and Vice President in charge of Sales in 1953. He served as President from 1955 to 1970. Since his retirement in 1974 he had served as a Consultant and a Director of CertainTeed. Mr. Meyer also served as a Director of the Fidelity Bank, Lebanon Valley College and the Livengrin Foundation, as Chairman of the Board of the National Council on Alcoholism, a member of the Board of Trustees of Villanova University and as a National Chairman of Villanova's $40-million, fund-raising campaign. He was a Past President of the Asphalt Roofing Manufacturers Association and the Gypsum Association.

JOHN SUTTON
MARCH 5, 1978

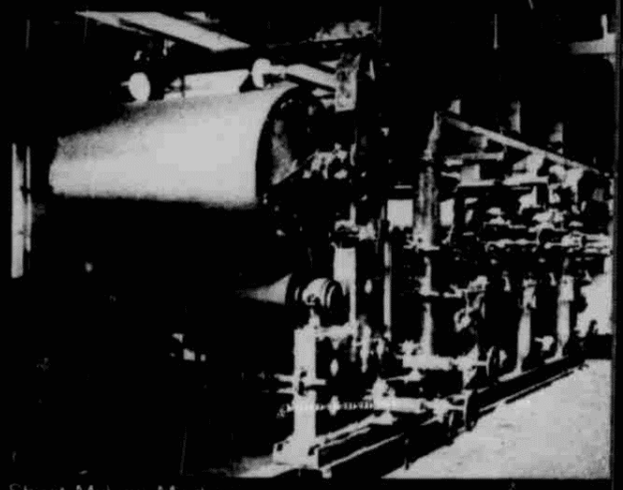
John Sutton, Editor of "Roofing Siding Insulation" magazine, passed away March 5, 1978, at age 42. Mr. Sutton served as Editor of RSI for 15 years and is attributed with sole responsibility for the publication becoming a respected and dominant force in the industry it served. His last editorial for RSI, titled "Washington Merry-Go-Round," was written just three days before his death.

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

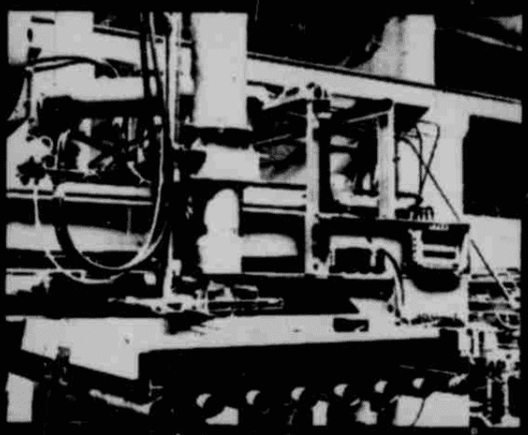
ASBESTOS CEMENT SHEETS, Automatic Corrugating, Colouring Plants for SHEETS

INTERASBEST

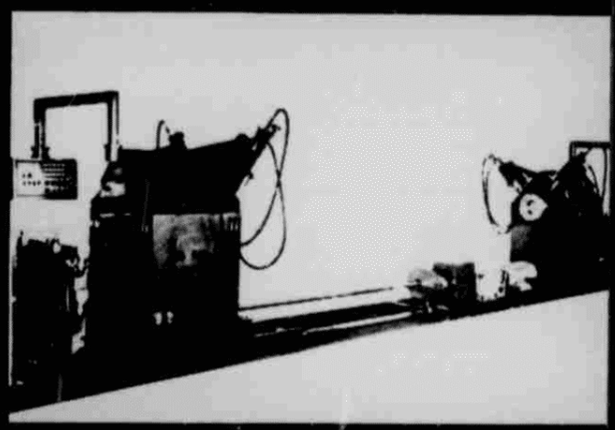


Sheet Making Machine

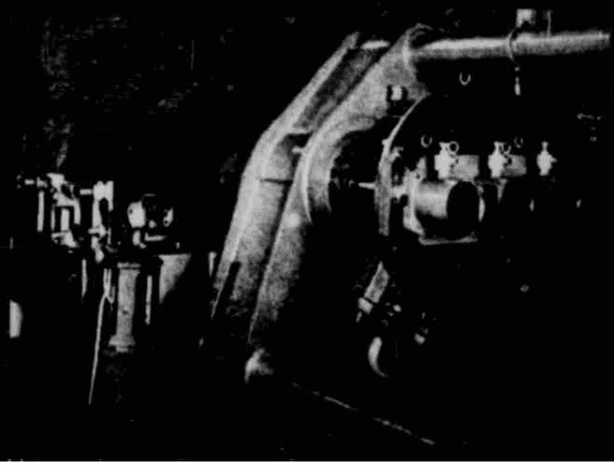
INTERASBEST



Automatic Corrugating unit shown without its Plastic roof



Automatic Pipe Lathe



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1977 ASTM STANDARDS IN BUILDING CODES SPECIFICATIONS/TEST METHODS/DEFINITIONS—Contains all Standards of ASTM which are referenced in building codes of states, cities and municipalities as well as all Standards in National Model Codes. [521 Standards; 3,130 pages; Publication Code #03-001577-10; $89.75 per two-volume set]

TEXTILES: FIBERS AND ZIPPERS: HIGH MODULUS FIBERS—Part 33 of the 1977 Annual Book of ASTM Standards; includes Standards concerned with asbestos textiles; covers conditioning, definitions, identification, qualitative and quantitative analysis, sampling and testing machines. [108 Standards; 760 pages; Publication Code #01-033077-18; $25.00]

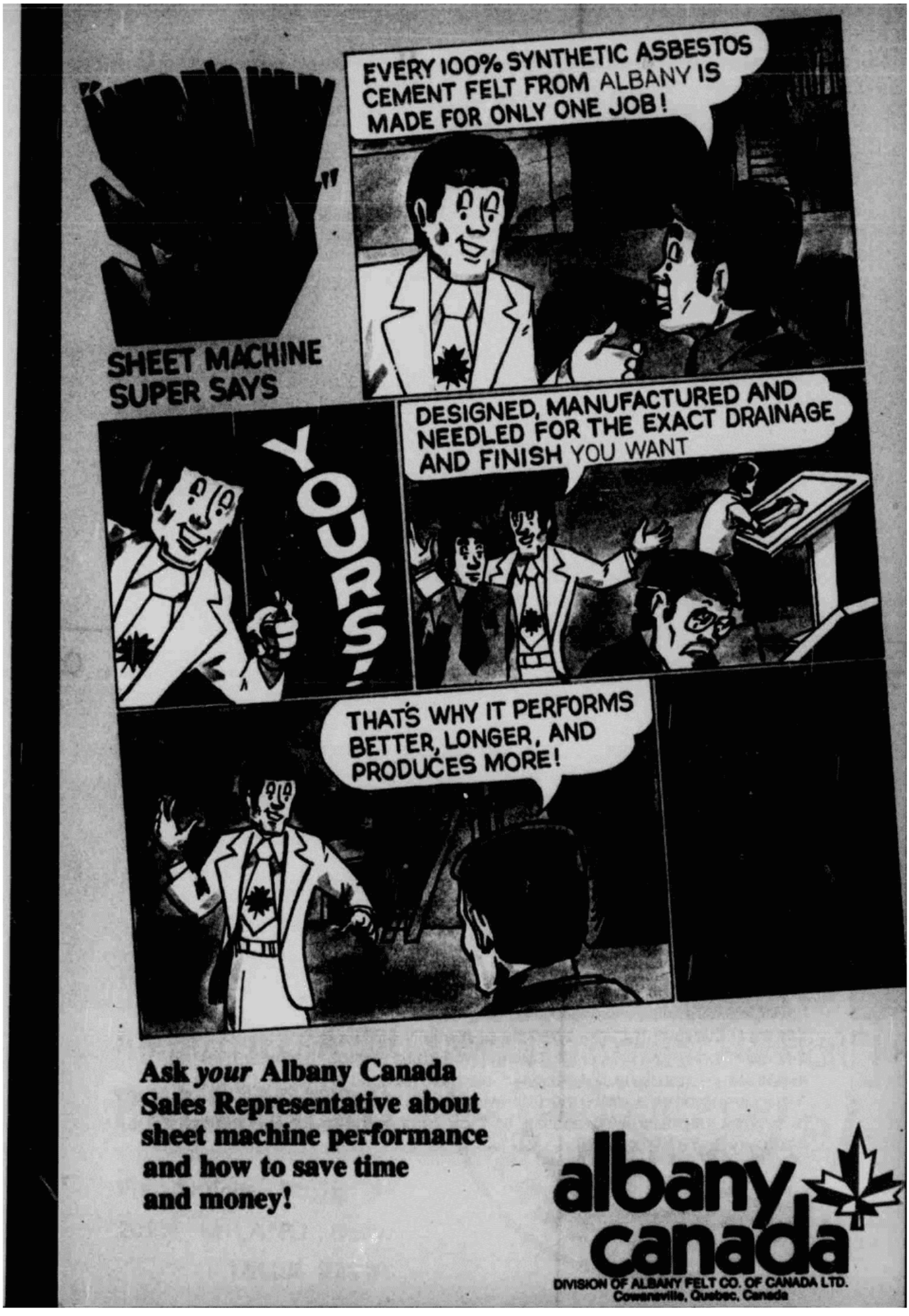
INDEX TO 1977 ANNUAL BOOK OF ASTM STANDARDS/PART 48—Covers all of the 5,600 ASTM Standards and Tentatives as well as proposed methods and other related material appearing in all Parts of the Annual Book of Standards. [300 pages; Publication Code #01-048077-42; $5.00]

FATIGUE OF FILAMENTARY COMPOSITE MATERIALS—Edited by K. L. Reifsnider and K. N. Lauraitis; deals with an unusually full range of information needed to design composite components with specific life and strength expectations and to understand the fatigue response of filamentary composite materials, how to characterize such fatigue data, what type of response to expect in some common situations, what special situations are important and how the response of these materials is related to design-sensitive parameters. [282 pages; STP 636; Publication Code #04-636000-33; $26.50]

Still Available . . .

Orders for any of the following should be placed with the Asbestos Information Association/North America, 1745 Jefferson Davis Highway, Arlington, Virginia 22202: Asbestos—Federal and State Regulations [$16.50 per handbook, plus a mailing charge for destinations outside the United States]; What You Should Know About Asbestos and Health [25¢ per pamphlet; 25¢ per heavy-coated-stock poster]; Asbestos in the Atmosphere—A Hazard to Health? [15¢ per pamphlet]; five Recommended Work Practice Manuals for Fabrication and Use of Asbestos Paper Products, Shop and Field Fabrication of Asbestos Sheet Products, Molding and Fabrication of Asbestos Containing Plastic Products, Fabrication and Use of Asbestos Friction Materials, Use and Handling of Asbestos Textile Products [$1.35 per manual, plus postage].

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NEW ASBESTOS PATENTS

U.S. patents may be purchased from The Commissioner of Patents, Washington, D. C. 20231, for 50¢ each. Photoprints of non-U.S. patents may be purchased from the same source at a cost of 30¢ per page. Remittances should be in coin, currency or check and the number of the patent, name of the inventor and date of issue should be given.

British 1,490,220—In the manufacture of a long-lived chlorine cell diaphragm, a fibrous mat of asbestos fibers and alkali metal and hydroxyl ions is heated to displace magnesium ions from the surfaces of the fibers and form an alkali metal silicate layer which upon contact with the acid anolyte forms a dense, uniform silica layer on the surfaces of the fibers; R. T. Foster, W. B. Darlington & M. Korach; assigned to PPG Industries, Inc., October 26, 1977; 11 pages.

Canadian 1,025,487—To improve the thermal shock-resistance of asbestos-cement sheets, boards or other products, there is added to the usual mixture of asbestos, Portland cement and silica flour preferably 1%-5% of nylon fibers, orlon fibers or sisal fibers to prevent surface cracking of articles when subjected to temperatures on the order of 700°C for a period of one hour; J. C. Yang; assigned to Johns-Manville Corporation, January 31, 1978; 23 pages.

U.S. 3,989,944—A system is described for identifying Chrysotile asbestos as well as other asbestiform fibers in air pollution samples; the system comprises a collimated X-ray beam which is incident on parallel aligned asbestos fibers; diffracted X-rays are detected by a proportional counter set at the diffraction line position for the (002) plane; background intensity may be detected by a second counter set above the axis 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 the U.S. Department of the Navy, November 2, 1976; 7 pages. [This Government-owned invention is available for U.S. licensing and, possibly, for foreign licensing.]

U.S. 4,072,650—A friction composition for forming brake shoes or the like having a controlled and lessened degree of "fade," i.e., a sudden and dangerous loss of friction, consists essentially of (1) a copolymer of butadiene and styrene as a binder, (2) cast iron chips or other granular filler, (3) asbestos, (4) partially polymerized cashew nutshell oil resin, (5) one or more curing agents and (6) a toluene solution of dicyclopentadieneyliron to ensure deposition of carbon at high temperatures; J. B. Littlefield; February 7, 1978; 5 pages.

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BIGGEST ASBESTOS MINE OF EUROPE
PRODUCER OF FIRST QUALITY
ASBESTOS FIBRES
FOR EVERY USE
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AMIANTIFERA DI
BALANGERO
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20124 MILANO (Italy)
TELEX 32293

CALENDAR OF EVENTS

ASBESTOS CEMENT PRODUCTS—Meeting of Committee C-17 of the American Society for Testing and Materials, Boston, Massachusetts, *June 5-6.*

INSTRUMENTATION FOR SAFETY PERSONNEL—Industrial hygiene course at the Department of Occupational and Environmental Health, Wayne State University, Detroit, Michigan, *June 6-8.*

ULTRASONIC MATERIALS CHARACTERIZATION—First International Symposium sponsored by the U.S. National Bureau of Standards and the American Society for Nondestructive Testing; NBS Headquarters, Gaithersburg, Maryland, *June 7-9.*

INSTITUTE FOR CORPORATE COUNSEL—Presented by the Practising Law Institute in cooperation with the Westchester-Fairfield Corporate Counsel Association; Association of the Bar of the City of New York, New York City, *June 8-9.*

INSULATION CONTRACTORS ASSOCIATION MEETINGS—SEICA Spring Meeting at Pine Isle on Lake Lanier, Buford, Georgia, *June 11-12;* SWICA Convention at Tamarron, Durango, Colorado, *June 18-21.*

MARKETING THROUGH OVERSEAS AGENTS AND DISTRIBUTORS—Course on how to control overseas outlets presented by American Management Associations; New York Hilton, New York City, *June 12-13.*

INDUSTRIAL HYGIENE CHEMISTRY— NIOSH Short Course #590; lecture/laboratory course on analytical methods for industrial hygiene samples; sponsored jointly by the Department of Environmental Health, University of Cincinnati, and the U.S. National Institute for Occupational Safety and Health; Cincinnati, Ohio, *June 12-17.*

OCCUPATIONAL HEALTH-DEVELOPING MEDICAL SURVEILLANCE/-HEALTH INFORMATION SYSTEMS—Conference designed by Executive Enterprises, Inc., in association with Synthetic Organic Chemical Manufacturers Association, Inc.; Mayflower Hotel, Washington, D. C., *June 13-14.*

FIRST ERGONOMICS SEMINAR—Will cover basic principles of ergonomics as applied to occupational environments; cosponscred by the Ergonomics Committee and the Ohio Valley Local Section of the American Industrial Hygiene Association; Stouffer's Inn, Cincinnati, Ohio, *June 13-14.*

GENERAL INDUSTRY FIRE TRAINING—Basic first-aid fire training course of The Ansul Company; to be held at Ansul's Fire Technology Center, Marinette, Wisconsin, *June 13-15* and *July 11-13.*

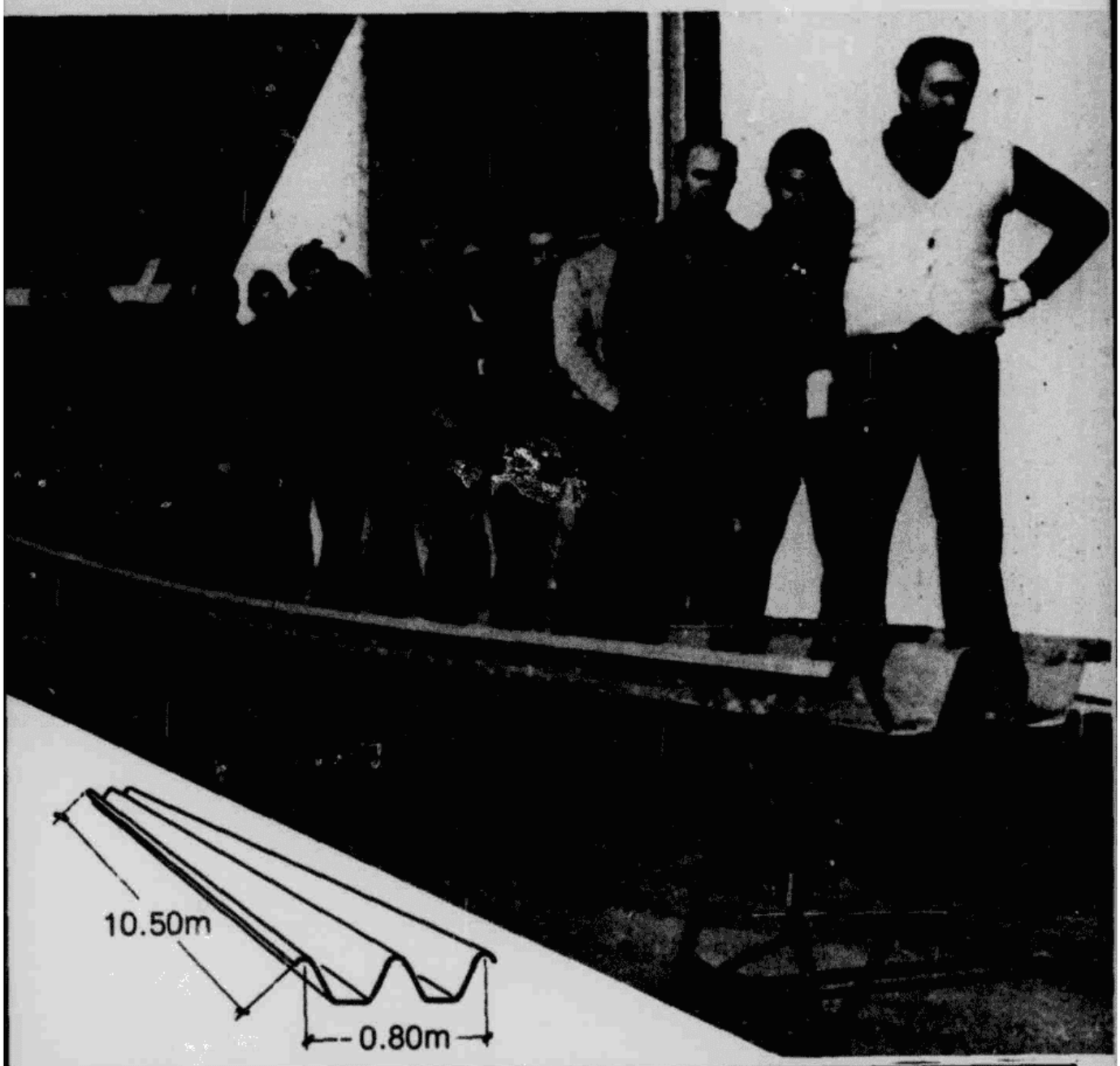
EUROPLASTIQUE 78 EUROCAOUTCHOUC—International Exhibition of Plastics and Rubber Materials and Machinery; includes an International Congress organized by the Societe de Chimie Industrielle; Parc des Expositions de la Porte de Versailles, Paris, France, *June 13-21.*

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steel
+ asbestos
+ cement

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SALES FORECASTING—Two courses of American Management Associations are: Basic Sales Forecasting for Consumer and Industrial Products, *June 14-16* in New York City, *August 23-25* in Chicago, Illinois; Sales Forecasting Principles for Executives and Managers, *June 22-23* and *November 27-28* in New York City, *October 26-27* in Chicago, Illinois.

PARTICLE TECHNOLOGY CONFERENCE—Announced by the Engineering Foundation of the United Engineering Trustees, Inc.; Asilomar Conference Grounds, Pacific Grove, California. *June 18-23.*

X-RAY POWDER DIFFRACTION—15th Annual Short Summer Course; Department of Physics, State University of New York at Albany, New York, *June 19-30.*

ENVIRONMENTAL ANALYTICAL CHEMISTRY—First Symposium sponsored by the U.S. Department of Energy and the Thermochemical Institute; Brigham Young University, Provo, Utah, *June 21-23.*

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.*

PNEUMOTRANSPORT 4—Fourth International Conference on the Pneumatic Transport of Solids in Pipes; held by the British Hydromechanics Research Association/Fluid Engineering in cooperation with the Colorado School of Mines and the American Society of Mechanical Engineers; Carmel-by-the-Sea, California, *June 26-28.*

AIR POLLUTION CONTROL ASSOCIATION—71st Annual Meeting and Exhibition; Albert Thomas Convention Center, Houston, Texas, *June 26-30.*

LOW TEMPERATURE SEMINAR—The International Cryogenic Materials Conference will hold a special seminar on research on nonmetallic and composite materials at low temperatures at the Hilton Hotel, Munich, West Germany, *July 10-11.* The seminar follows the International Cryogenic Engineering Conference, London, England, *July 4-7.*

INDUSTRIAL WASTE TREATMENT AND UTILIZATION—Conference on the theory and practice of new and old methods; University of Waterloo, Waterloo, Ontario, *July 5-7.*

SAFETY AND ACCIDENT PREVENTION—World Congress sponsored by the World Safety Organization; Singapore, Malaysia, *July 8-14.*

MINING COURSES—The following courses will be held at The Pennsylvania State University, University Park, Pennsylvania: Fundamentals of Mining Manpower Training, *July 10-11;* Mine Electrical Cables and Cable Splicing, *July 31-August 1.*

SECOND CIRCUM-PACIFIC ENERGY AND MINERAL RESOURCES CONFERENCE—Sponsored by several prominent organizations; Mid-Pacific Conference Center, Hilton Hawaiian Village, Honolulu, Hawaii, *July 30-August 4.*

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Remember When?

(April 1928 ASBESTOS)

This issue reported the death of Commander Henry F. Grier at the age of 85. Mr. Grier was a veteran of the Civil War and of the insulation industry, having spent 57 years in the business. At the time of his death he was still active as Vice President of Central Asbestos & Magnesia Company, of Chicago.

Also recorded was the death of Sir Mortimer Davis, former owner of Consolidated Asbestos Ltd., of Montreal, Quebec. He was one of Canada's best known capitalists, having been a major factor in the growth of Imperial Tobacco Company of Canada and Canadian Industrial Alcohol Company Ltd., as well as Consolidated Asbestos.

Elwood J. Wilson announced the formation of Elwood J. Wilson, Inc., a new company formed to engage in the purchase and sale of asbestos and the operation of asbestos mines.

Certain-teed Products Corporation announced its acquisition of the Beaver Board Companies, manufacturers of roofing and wallboard materials. The twenty large plants owned by Beaver were expected to ideally complement Certain-teed's seventeen operating units.

Another merger involving H. F. Watson Company, The Continental Roofing & Manufacturing Company and The Ruberoid Company was reported in this issue.

(May 1928 ASBESTOS)

New Advertisers: Canadian Asbestos Company, Montreal, Quebec;
Jaton Manufacturing Company, New York City.

W. Kupferburger, Sc.D., contributed an article describing the deposits of Chrysotile asbestos in the Union of South Africa and the methods being used to work them. Dr. Kupferburger had been employed by South Africa to spend an extended time in the United States to study utilization by the U.S. of non-metallic minerals.

World registration of motor vehicles in 1927 was reported at 29,505,000, with the U.S. accounting for 23,127,000 units.

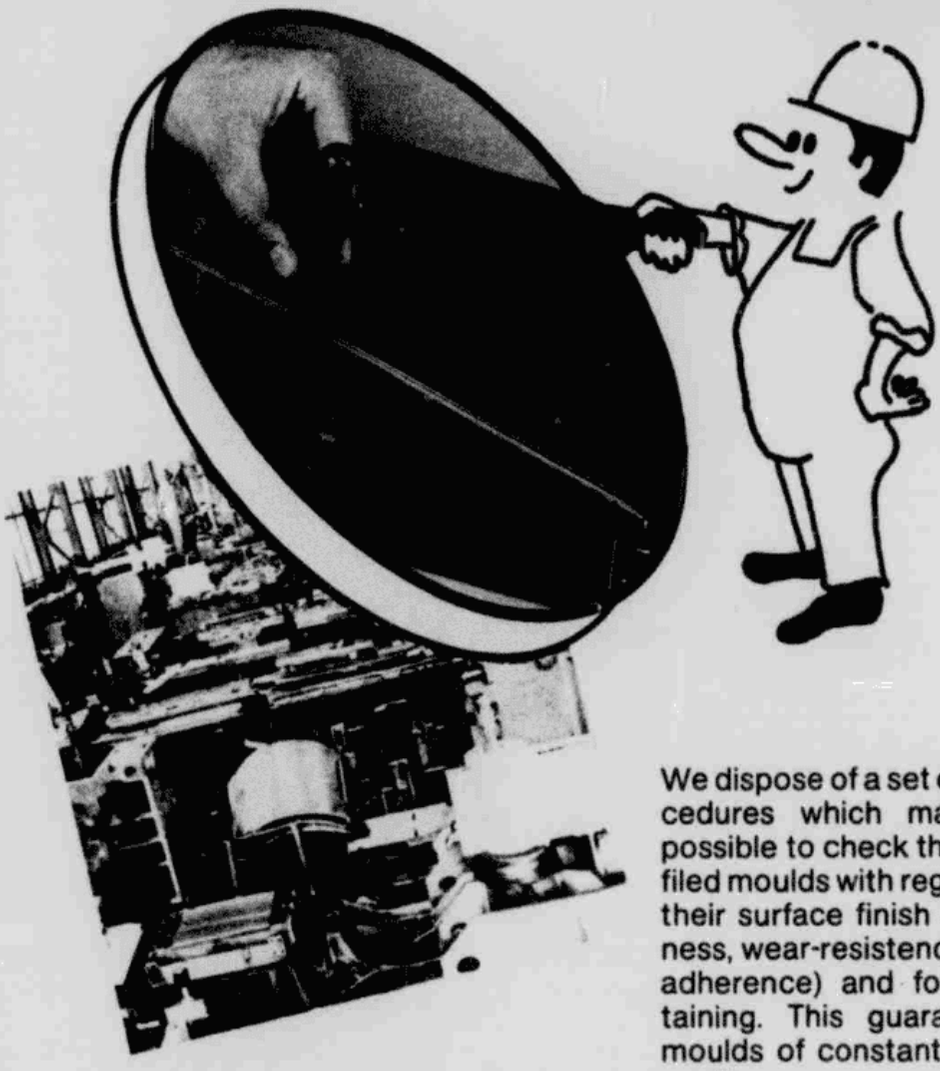
R. B. Saner announced the formation of South African Consolidated Asbestos Ltd., with himself as Chairman. The new company intended to develop a block of 2,000 claims in the Pietersburg District of the Transvaal, reported to contain both Amosite and Blue asbestos.

The Celite Company, of Los Angeles, reported it had purchased all properties of National Magnesia Manufacturing Company, Redwood City, California, where it intended to continue the manufacture of insulating materials containing asbestos, magnesia and diatomaceous earth.

Asbestos Magazine, 1978, May 1978
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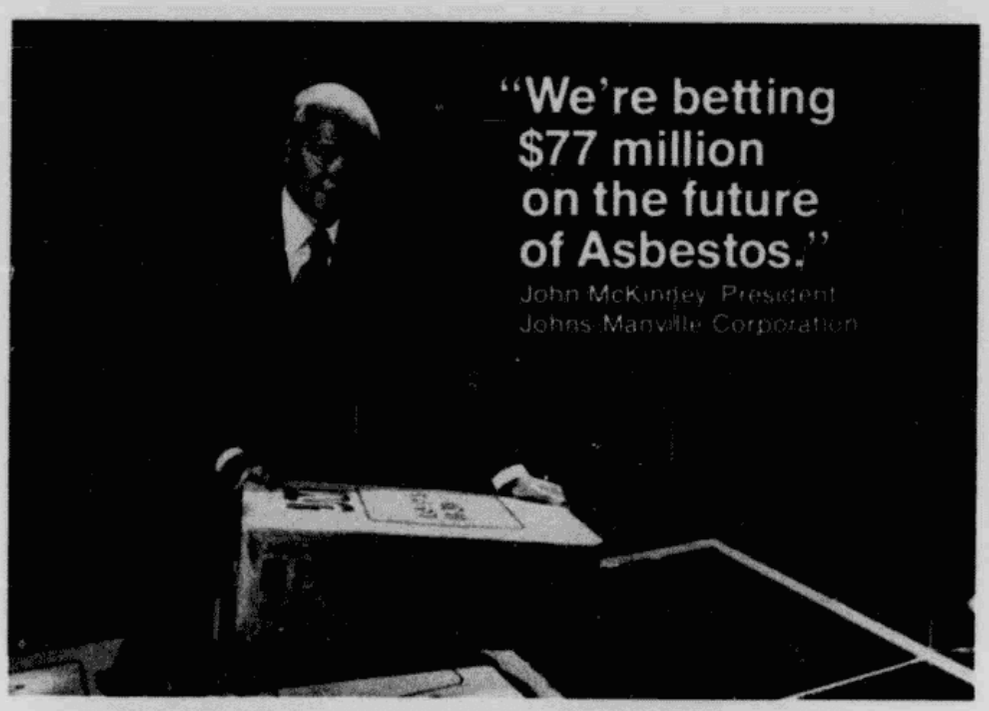
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And that's just a beginning!

A Johns-Manville 3-stage, 5-year plan to develop its facilities at Asbestos, Quebec, will insure an annual output of 700,000 short tons of asbestos over the next 20 years and an additional 20 years at an annual rate of 500,000 to 600,000 tons.

Vital as this commitment is, it is only part of what's needed to insure the future of our industry. The truth about asbestos must be told — factually, widely, and repeatedly.

That's why we're investing heavily in a full-scale program of advertising appearing regularly in *Business Week*. The ads are full pages, in four color. And while the advertising investment is not nearly as large as that committed to our plant, it is in many ways just as important.

Do we believe in the future of asbestos? $77 million says we do.

Johns-Manville

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Carey-Canadian started to mine its own business in 1918.



Carey-Canadian started in the Asbestos Business back in 1918 when Philip Carey came to Quebec to mine Chrysotile Asbestos. Since then, we've become one of the largest, most trusted producers of quality asbestos.

Since 1918, we haven't lost sight of the three principles that Philip Carey set down so many years ago. He stressed economy in mining and milling, endless research to assure quality and uniformity and customer service...which brings us to you. We promise the right grade of asbestos for your product, give good service and the maximum savings possible.

Give your Carey-Canadian man a call today. He'll stand by you from drawing board to delivery date. He has to. Tradition demands it.

Carey-Canadian... one of the largest, most trusted producers of Chrysotile Asbestos.

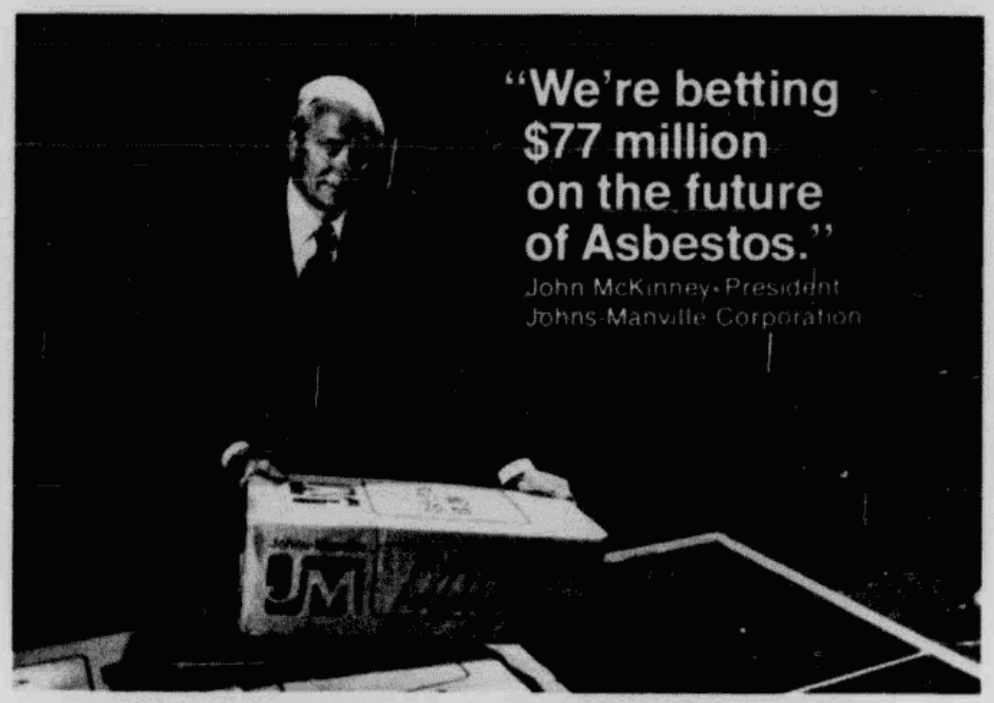
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