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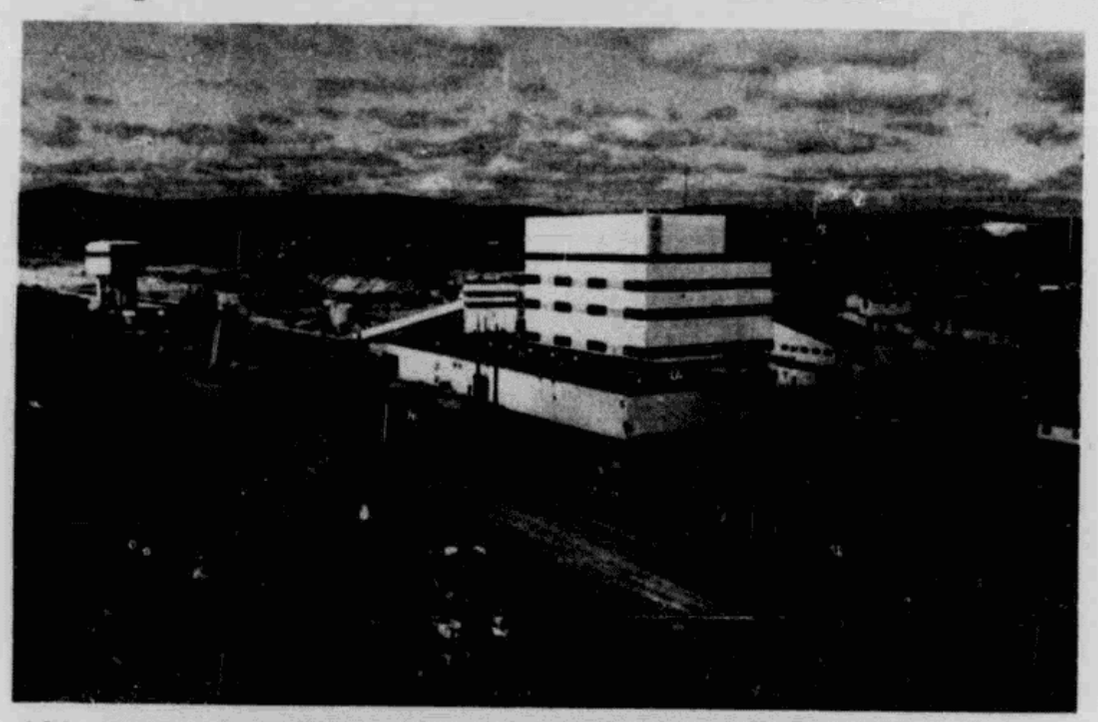
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ASBESTOS

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LAKE ASBESTOS OF QUEBEC LTD.

ITS CANADIAN MINES PROVIDE QUALITY FIBER TO USERS WORLDWIDE

Stretching from the Green Mountains of Vermont to the Gaspe Peninsula of Canada, a belt of serpentinite (an altered form of peridotite) is host to what probably are the largest known asbestos deposits in the Free World. Indeed, within a 70-mile by 15-mile rectangle between Danville and the Chaudiere River valley in the Eastern Townships of the Province of Quebec some 100 companies operating at least 46 mines have produced over 43-million tons of Chrysotile asbestos over a 100-year mining history.

The mineral first was discovered near Chaudiere, but the first find of economic importance occurred in 1876 at what now is the town of Thetford Mines. In 1976, five companies operating in the Province of Quebec shipped nearly 1.4-million tons of fiber (30% of the world total) to users in more than 77 countries in the Americas, Europe, Africa, the Middle East, Asia and Australasia.

In 1976, the nearly 1,000 employees of Lake Asbestos of Quebec Ltd., at Black Lake, and the National Mines Division, near Thetford Mines, produced 248,000 tons of fiber.

LAKE ASBESTOS MINE & MILL

Lake Asbestos, a wholly-owned subsidiary of Asarco Inc., was incorporated by Asarco September 17, 1952, to develop asbestos orebodies which had been discovered under an area occupied by what then was a lake measuring two miles long and a half-mile wide.

The National property was acquired from National Asbestos Mines on October 1, 1973.

Development of the property at Black Lake, located about five miles south-southwest of Thetford Mines, was another of the engineering epics with which Asarco has been associated. A dredging operation to reach the orebodies, begun in 1955, was believed to be the largest undertaken for such a purpose up to that time. Over a period of four years the lake was divided by a dam, drainage to the lake including the Becancour River was diverted around the periphery, 55-billion gallons of water and 31-million cubic yards of lake bottom and glacial over-burden were suction-dredged and a hydraulic system was constructed to decant the dredged material

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PHOTOGRAPH NO. 1

RADIO DISPATCHED TRUCK UNLOADS 85 TONS OF ORE INTO THE PRIMARY CRUSHER. THE FIBER SEPARATES FROM THE ROCK AS IT PASSES OVER THE VIBRATING SCREEN, ONE OF 36 SCREENS IN THREE ROCK LINES AT BLACK LAKE.



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in four different areas up to five miles away. Dredging was terminated at a depth of 200 feet below the original surface.

Between precipitation (52 inches of rain and snow in 1976) and inflow from the old Becancour river bed, the hydraulic system still is very much in use, pumping more than 1.2-billion gallons in 1976 alone.

Pit development began in 1956 while dredging still was in progress. Ground for the mill was broken on July 1 of that same year. Almost exactly two years later, June 29, 1958, Black Lake produced its first fiber. Total construction cost of the project was $36-million, in 1958 dollars.

Originally set at 16,000 tons of ore and waste per day, Black Lake's mining rate has risen steadily to 30,000 tons per day in 1961, 40,000 tons per day in 1970 (following completion of a major five-year stripping program) and 46,000 tons per day in 1976.

Currently the mine is equipped with seven electric shovels (4-, 4½- and 11-cubic-yard capacities), two front-end loaders, 36 ore trucks and an array of associated equipment. Some 14-million tons of ore and waste rock were excavated in 1976, with the mine operating around-the-clock, six days a week.

Black Lake's reserves have also increased, thanks in part to the acquisition of the East Extension in 1972 and the North East Extension in 1973. As 1976 ended, reserves were estimated at 97-million tons averaging 3.10% fiber, sufficient for approximately 22 more years of mining.

In 1976, operating six days a week, the Black Lake mill produced a record 162,087 tons of fiber. Since it commenced operations in 1958 it has produced over 2-million tons of fiber from about 57-million tons of ore.

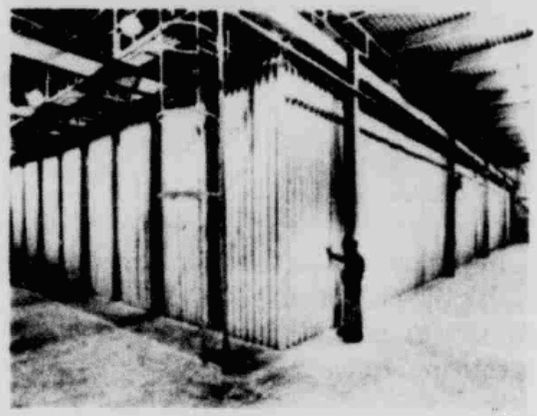
Originally designed to handle 5,000 tons of ore per day, the 11-story-high mill far exceeded that in 1976, crushing more than 4.4-million tons during the year.

The mill separates asbestos fibers from rock by repeated crushing, fiberizing, screening and air separation. Each operation is carefully tuned with the others so that longer fibers are not broken during processing (reducing their value) and so that the maximum amount of fiber is recovered from the rock. A magnetic concentrating process developed by Asarco and installed at the mill in 1962 virtually doubles mill yield.

The heart of the Black Lake mill, on the top floor, is an immense baghouse enclosed in a vacuum chamber. Eight

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150,000-cubic-feet-per-minute fans inside the chamber provide the suction that picks up the fibers from the screens (115 in all), transports them to cyclone collectors and pulls the transporting air through the filter bags while returning clean air to the mill. It takes approximately 50 tons of air to recover one ton of fiber.



PHOTOGRAPH NO. 2

IMMENSE BAGHOUSE ENCLOSED IN A VACUUM CHAMBER AT THE MILL AT BLACK LAKE. AIR IS TRANSPORTED FROM THE MILL AND THROUGH THE FILTER BAGS, AND IS RETURNED AS CLEAN AIR TO THE MILL.

Using the Quebec grading system, the mill classifies fiber into five main groups—numbers 3 (the longest) through 7 (the shortest). Each group is further divided into subgrades A through Z (longest to shortest). Lake Asbestos fiber bears a third designator (numerals 3 through 5) to indicate the degree of openness obtained by a fiberization process which separates fiber bundles along their length to increase surface area.

THE NATIONAL MINES DIVISION

By coincidence, Lake Asbestos' National Mines Division also began production in June 1958. Producing at a 50,000-ton-per-year rate when it was acquired by Lake Asbestos in 1973 the Division's 260 employees in 1976 established a new record by producing more than 86,000 tons of fiber. Working three shifts, five days a week, National's miners also broke a record, moving more than 4-million tons of ore and waste.

Extending northeast from Thetford Mines is the so-called Pennington Dike. There, earth movement eons ago reduced serpentinized peridotite along the shear zones to a schist (crystalline rock

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PHOTOGRAPH NO. 3

THE NATIONAL MINE AND MILL, LOOKING NORTH. THE PIT IS ABOUT 3000 FEET LONG, 1300 FEET WIDE & 200 FEET DEEP.

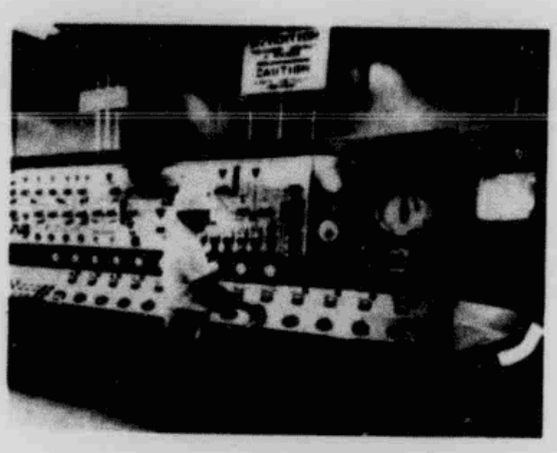
with a parallel structure). Where the dike was several hundred feet thick and steeply inclined, cross fiber was formed in the tension cracks and slip fiber in the planes of shear as fracturing took place. National fiber is highly regarded for its whiteness.

The National deposit, some 800 feet wide and dipping at an angle of 60° (note face of the footwall at left in Photograph No. 4), occupies the widest part of the dike—about four miles northeast of Thetford Mines. Reserves at year-end 1976 totaled nearly 22-million tons of ore averaging 5.34% fiber.

Major mining equipment at the National mine includes two 3″ and two 6½″ drills, two 4½-cubic-yard power shovels and two front-end loaders (6- and 10-cubic-yard capacities), eleven haulage trucks and a drop-ball crane for breaking large rocks.

PHOTOGRAPH NO. 4

THE NATIONAL MILL FEATURES A SOPHISTICATED, CENTRALIZED CONTROL PANEL.



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FIBER QUALITY & RESEARCH

To assure the blends of fiber supplied to customers are "up to spec," Lake Asbestos constantly monitors production by sampling at both the National and the Black Lake mills. Samples are taken every 30 minutes at critical points of production, including bagging. Each one-ton lot of asbestos is held in the bagging area until it is released or rejected by the mill's quality control supervisor. Lake Asbestos maintains a modern laboratory at Black Lake which is capable of conducting a wide range of tests to verify that optimum chemical and physical properties are being obtained during processing.

On behalf of Lake Asbestos, Asarco's Central Research Laboratories, at South Plainfield, New Jersey, conduct studies aimed at improving asbestos recoveries, enhancing product quality and discovering new applications. Using data thus obtained, Lake Asbestos works closely with customers, assisting them in the selection of the fiber blend which will best serve their needs.

THE ABOVE ARTICLE APPEARED IN THE SUMMER 1977 ISSUE OF ASARCO NEWS. WE ARE GRATEFUL TO ASARCO INC. AND TO LAKE ASBESTOS OF QUEBEC LTD. FOR PERMISSION TO REPRINT THE STORY IN ASBESTOS.

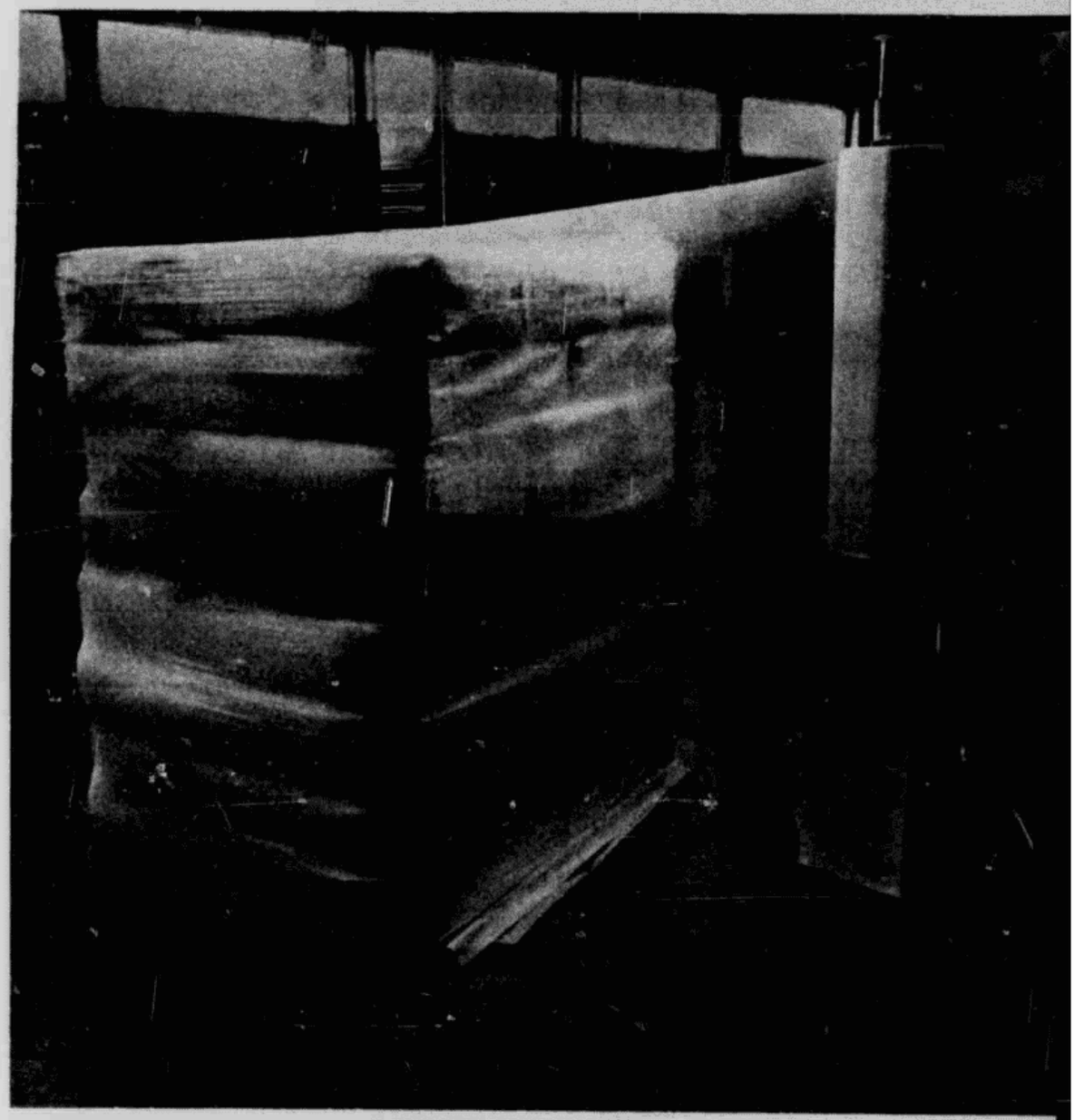
THE COVER: One-hundred pounds of fiber is pressed into a two-cubic-foot cake and is bagged, palletized and stretch-wrapped in a two-ton unit (see photograph on the front cover) and loaded into a 20-ton shipping container. The procedure simplifies customer storage, protects fiber from moisture and practically eliminates dust. The containers speed shipments, save money and minimize damage.

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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Stretch protects against and related



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

LAKE ASBESTOS

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FOR & ABOUT — COMPANIES

QUEBEC COMPLETES ASBESTOS REPORT

The asbestos industry in Quebec could dramatically increase the amount of processing done within the Province, according to a study released recently by Yves Berube, Provincial Minister of Natural Resources. In contacting the Quebec Asbestos Mining Association for comment, we were advised the report merely amplifies the conclusions of the Sores Report, which had been held by Mr. Berube to be somewhat conservative. QAMA states the report "is an over-optimistic outlook based on hypothetical conditions, unsupported by an in-depth study of market prospects for the asbestos-based products selected. In the concluding summary is the following statement: In addition to possible expansion of existing plants, it would be realistic to envisage the construction of ten or fifteen new plants within the next ten years, which would create a total of 1500 to 2000 jobs and require investments of $70-million to $100-million. The fiber tonnage transformed in Quebec would thus be boosted from 40,000 tons per year to somewhere between 150,000 tons and 350,000 tons per year, depending on the number of the profitably operating asbestos paper factories. All important uses would contribute—asbestos-cement products, asbestos paper, textiles, friction materials, packings and gaskets, asbestos-vinyl flooring and a few new products. In reading through the report, says QAMA, one has the impression it is merely a collection of information gathered in various publications and that its optimistic proposals are not based on a scientific analysis and assessment of the domestic and export markets for the asbestos products mentioned above.

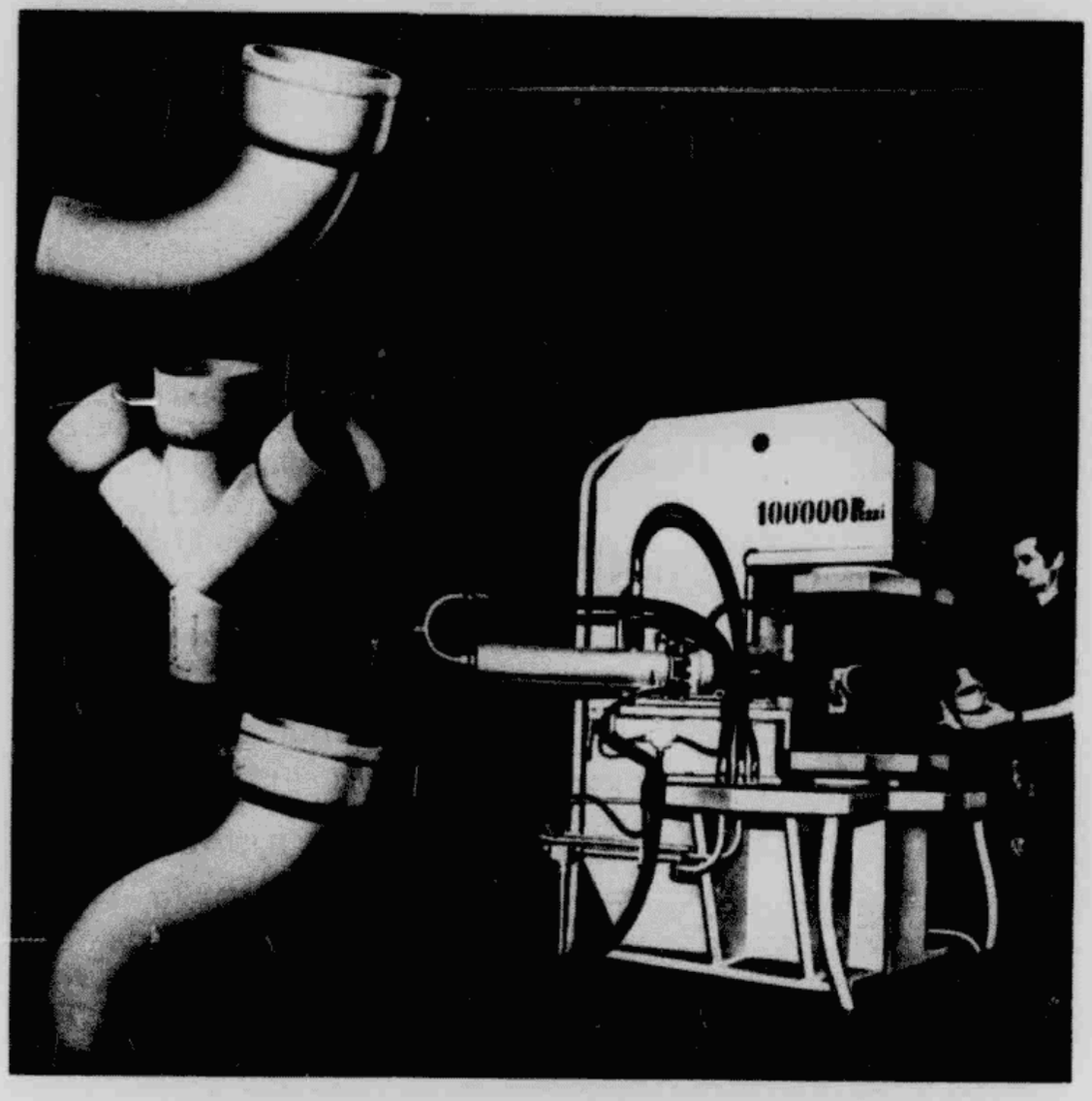
NEW PRODUCTS PLANTS FOR QUEBEC

The Quebec Government plans two new asbestos products projects which it is said could double the fiber processed in the Province to 6% of mine output within three years. According to Natural Resources Minister Berube, the first project will be a joint venture between the Provincial Government; Domco Industries Ltd., a major linoleum producer; and Papiers Cascades Ltee., a private producer of asbestos felts. Beginning late this year the project is expected to annually produce 10,000 tons of asbestos felt at the former newsprint mill of Consolidated-Bathurst Ltd., at Cap-de-la Madeleine—creating 45 new jobs. C-B donated a section of its mill for the new operation and the Quebec Government

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will provide the C$4-million required to modify the facility. Domco will purchase the entire output. It now imports its asbestos felt from the United States and England. The Province expects to recover most of its investment by 1981. . . . The second project is to involve a similar plant at Thetford Mines. Although a final decision on this project will not be made until the middle of next year, tentative plans call for a $7-million investment and the creation of 70 jobs.

CUBA BUYS TBA PRODUCTS

The Sealing Materials Division of TBA Industrial Products Ltd., a Turner & Newall company, has won contracts worth £650,000 from Ferrimport, the state purchasing organization of Cuba. The contracts cover a wide range of TBA products including compressed asbestos fiber jointing, plaited and proofed packings, oilproof paper jointing, millboard and PTFE products.

U.S. PLANT FOR KLINGER

Richard Klinger, Inc., an international manufacturer of gasket materials, sheet packing, valves and level gauges, has chosen the small town of Sidney, Ohio, about 40 miles north of Dayton, for its first production plant in the United States. The new facility will make a rubber-bonded asbestos gasket for marketing to various gasket-cutting firms across the U.S.

J-M ROPE USED IN WOOD HEATER

According to a statement issued by Autocrat Corporation, New Athens, Illinois, it is vital to the reliable performance of its Americana wood burning fireplace/heater that the ¼" asbestos rope used to seal the double fire doors maintain its integrity despite prolonged exposure to extreme heat. A faulty seal would allow uncontrolled air to enter the combustion chamber with subsequent loss of the temperature control characteristic, said the company. After testing a variety of methods, it was found that an effective seal could be produced by cementing a ¼" braided asbestos rope, Style 566 made by Johns-Manville Corporation, into an inside perimeter channel in each door and compressing the rope against a flanged frame using a cam lock latch. The compact, dense, abrasion-resistant structure of the rope proved ideal for this application where the rope is only partially contained in the grooves.

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During the tests, the gasket had to withstand a temperature of 1000°F. Although the solid cast iron doors turned dull red, the rope was unaffected. It was also found that maximum temperature variations of ±1½°F over a ten-hour period on a single fuel load were not unusual.

SUPRADUR TO ACQUIRE DTI SECURITY

Supradur Manufacturing Corporation has reached an agreement with DTI Security, Inc., whereby Supradur has an exclusive right to acquire DTI by the end of 1979. No purchase price was given. DTI is a pioneer in the security systems field and is headquartered in Sunnyvale, California.

GOLD BOND DIVISION TO RELOCATE

National Gypsum Company, Dallas, Texas, will move the headquarters of its largest operating arm, the Gold Bond Building Products Division, from Buffalo, New York, to Charlotte, North Carolina. The relocation should be completed by this summer.

CORRECTION

In the January 1978 issue of ASBESTOS, on page 25, it was announced that Cyprus Pipes Industries Ltd. had opened a new asbestos-cement pipe plant at Moni, near Limassol. Amiantus Centre Neiderurnen was credited as the designer of the pipe machine. In actuality, the inventor and designer of the new machine is Ing. Adalberto Amanzio, Technical Advisor for the Centre. We are grateful to Mr. Amanzio for bringing this error to our attention.

MOTOR VEHICLE FACTORY SALES

FIRST QUARTER 1978—Motor vehicle factory sales from plants in the United States totaled 3,089,811 during the first three months of 1978 compared with 3,160,384 in the same period a year earlier. The breakdown for the latest quarter is 2,240,465 passenger cars (down 72,050) and 849,346 trucks and buses (up 1,477). . . . Factory sales from plants in Canada reached 448,184 motor vehicles from January-March 1978 against 465,306 in the first quarter of 1977. [Motor Vehicle Manufacturers Association of the United States, Inc.]

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MARKET CONDITIONS

GENERAL BUSINESS

The strength of the economy in the second quarter has exceeded the predictions of all but the most optimistic forecasters. Industrial production continues to climb and growth in jobs has held unemployment close to the 6% level. Housing starts rose a healthy 6% in April, continuing the strong recovery from their earlier slump. Most other statistics are solidly in the plus column and growth of Gross National Product for the quarter could wind up in the area of 9%.

The surge in general business has been accompanied by increasing upward pressure on prices. Wholesale prices rose at a 15% annual rate in April and consumer price inflation neared double-digit rates. While a moderation in food prices is expected to substantially reduce consumer price indices in the near future, there is no indication of any coming reduction in the underlying rate of inflation. In fact, some observers believe there is a distinct risk of further acceleration of inflation barring some fundamental changes in government's approach to the problem.

Recognizing the hazards of rapid economic growth accompanied by worsening inflationary prospects, the President has indicated he would reduce the amount of his proposed tax cut and delay its effective date. The Federal Reserve has moved several times in the direction of tighter monetary policy and short-term interest rates have been moving steadily upward. In late May the maximum interest rate on FHA mortgages was raised to 9%, the highest in 2½ years. While this poses some threat to the housing market, the rise was necessary to compete with rates on alternative investments.

Administration efforts to persuade business and labor to exercise restraint on price and wage increases have met with mixed responses from business and a very cool reaction from organized labor. There is general skepticism as to the probable effectiveness of this approach.

Nevertheless, it is encouraging to note the increasing stress being placed on inflation as our number one problem by Mr. Carter and many of his top advisers. This and some more positive developments in the energy situation have obviously increased foreign hopes that the U.S. will come to grips with both problems—witness improvement in the position of the dollar and continuation of the stock market rally which has involved substantial foreign participation.

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OVER A QUARTER CENTURY OF EXPERIENCE

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U.S. ENVIRONMENTAL MATTERS

EXECUTIVE ORDER REQUIRES ANALYSIS

President Carter issued Executive Order 12044 which requires regulatory agencies to prepare extensive analyses of major proposed actions as part of an overall system to improve existing and future regulations. The analyses must be developed for proposed regulations which would result in an annual effect on the economy of $100-million or more, or in major increases in costs or prices for individual industries, levels of government or geographic regions. The U.S. Chamber of Commerce has endorsed the Order, saying it takes note of excessive burdens placed on business, especially small business, by unnecessary government regulation and seeks to increase involvement of all sectors in the regulatory process. The AFL/CIO calls the program undesirable, stating it thwarts the intent of the OSHAct. [AIA/NA News & Notes]

AIA/NA RESPONDS TO DOT PROPOSAL

The Asbestos Information Association/North America has responded to the proposed rulemaking of the U.S. Department of Transportation for the loading, shipping and handling of asbestos fiber (see April 1978 ASBESTOS, page 14). AIA/NA's comments were developed by its Standards Advisory Committee, under the chairmanship of Dr. H. B. Rhodes, Union Carbide Corporation; and represent a coordinated effort on behalf of the asbestos industry in North America. The Association outlined, in detail, the present procedures for packing and shipping asbestos fiber and concluded there is no need for the proposed regulations on the basis that current practices and procedures for the transport of asbestos are in compliance with pertinent provisions of the Transportation Act. It was stressed that the DOT proposal contains no documentation to justify additional regulation.

EPA WANTS BETTER TEST METHOD

The U.S. Environmental Protection Agency Research Center, at Cincinnati, Ohio, has requested assistance with a project to improve, refine and test its current interim method for determining asbestos in water. The solicitation also seeks to establish criteria for defining and identifying asbestos, in addition to developing a

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rapid, reproducible, non-electron microscope method for such determinations without the need for a high degree of skill or expensive equipment. Prior to promulgating a drinking water standard for asbestos, EPA needs definitions of the following regulatory criteria: contaminant's scope and quantity, human health effect; an effective, economically feasible treatment or removal technique; a reproducible measurement method; and a risk-benefit analysis. In analyzing the situation, the Association of Asbestos Cement Pipe Producers says that "with the exception of a formal risk-benefit analysis, *all* the criteria necessary for a 'maximum contaminant level' or treatment technology standard for asbestos in drinking water have been or are currently being developed. The solicitation takes EPA's current interim method for quantifying asbestos in water one step closer to practicality . . . and the (a/c pipe) industry one step closer to potential regulation."

SOURCES REPORT COMPLETED FOR EPA

The "Chemical Market Input/Output Analysis of Asbestos to Assess Sources of Environmental Contamination" has been completed for EPA by Syracuse Research Corporation, Syracuse, New York. AIA/NA has received a copy of the report for review and comment. This undertaking is being coordinated by E. M. Fenner, Johns-Manville Corporation, who is Chairman of AIA/NA's Technical Committee.

CONSUMER ASBESTOS PRODUCTS REPORT

The study by A. T. Kearney, Inc., Cleveland, Ohio, for the U.S. Consumer Product Safety Commission has been released by the Commission. The purpose of the report, entitled "Review of Asbestos Use in Consumer Products," was to identify and describe products; determine the amount and method of the asbestos incorporated therein; to assess product use and to determine if and how asbestos might be released; and to estimate consumer presence during conditions of activities which might release asbestos. Kearney reported 123 product groups, representing over 3,000 individual products. An initial review of the report by AIA/NA indicates a minimal number of products in today's market would pose a threat of exposure to respirable fibers in normal use.

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3M COMPANY

PRODUCTION—IMPORTS—EXPORTS

CANADIAN FIBER SHIPMENTS

Primary Canadian producers' shipments of asbestos (including tonnage for own use) amounted to 136,485 short tons in *March 1978* compared with 155,866 tons for the third month of 1977. The cumulative total for *January-March 1978* was 340,019 tons: 288,267 tons from Quebec plants and 51,752 tons from plants in Newfoundland, Ontario, British Columbia and the Yukon. The total for the first three months of 1977 was 398,000 tons: 308,803 tons from plants in Quebec and 89,197 tons from plants in the other four Provinces. . . . *Beginning January 1978, these monthly and cumulative statistics include concentrate shipped from Asbestos Hill.* [Statistics Canada]

QAMA CLARIFIES CANADIAN FIGURES

In *March 1978 ASBESTOS,* on page 22, the figure of 1,381,403 short tons is given as primary Canadian asbestos producers shipments for the *Year 1977.* The actual figure is 1,288,513 tons, the difference (92,890 tons) being an estimated yield by *Statistics Canada* of the concentrate shipped from Asbestos Hill. This clarification was provided by the *Quebec Asbestos Information Association,* and confirmed by *Statistics Canada.*

CANADA'S FLOOR TILE OUTPUT

Production of vinyl-asbestos floor tile by Canadian manufacturers for the *First Quarter of 1978* reached 9,873 metric tons (2.1-million square meters) compared with 10,949 tons (2.3-million square meters) in the first three months of 1977. *Shipments* totaled 9,718 tons (2-million square meters) in the latest quarter against 11,275 tons (2.4-million square meters) for the same 1977 quarter. [Statistics Canada]

FELT SHIPMENTS FROM CANADA

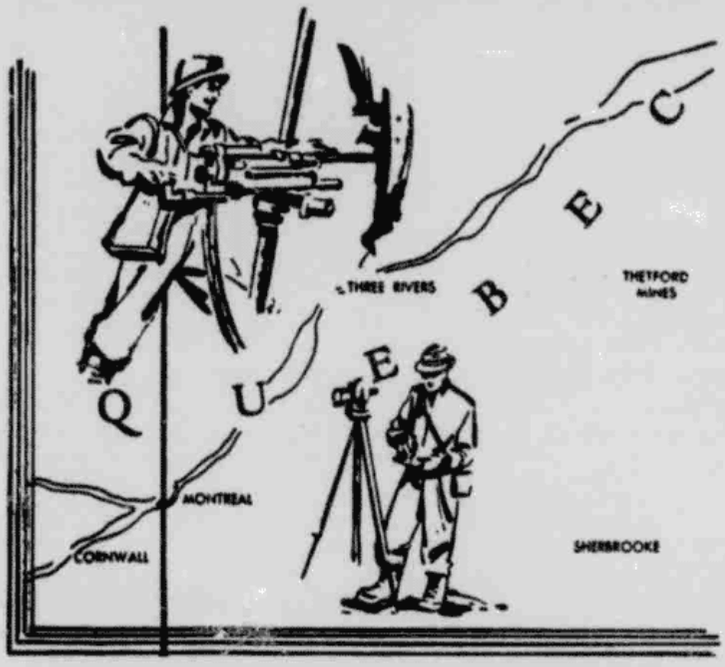
Canadian shipments of asbestos, cotton and synthetic dryer felts and fabrics for the *First Quarter of 1978* totaled 1,282,958 square feet (119,191 square meters) valued at C$4,077,401. Shipments of woven and/or needled wet felts and jackets (including felts used in asbestos-cement pipe or sheet-forming operations) reached 572,054 pounds (259,482 kilograms) valued at $9,487,336. [Statistics Canada]

CANADIAN ORE RESERVES

In spite of a slight drop in demand during 1977, it is generally considered that the consumption of asbestos in the Western World will increase between 1% and 2% per annum. It is estimated that the currently-known asbestos ore reserves in Canada will be sufficient to meet this demand well beyond the year 2000. Canadian asbestos ore reserves total over one-billion tons and contain about 48-million tons of recoverable fiber. [QAMA Bulletin]

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IMPORTS INTO THE UNITED STATES

From: U.S. Bureau of the Census

FEBRUARY 1978

UNMANUFACTURED ASBESTOS:

			$
Amosite	s.tons	..	..
Crocidolite (Blue), South Africa	s.tons	2,432	1,439,688
Chrysotile, Crudes, Canada	s.tons	20	13,842
Chrysotile Spinning Fibers, Canada	s.tons	328	236,408
Chrysotile, Other, Canada	s.tons	41,940	9,048,312
South Africa	s.tons	61	40,667
Other Crudes & Fibers, Canada	s.tons	516	133,615
India	s.tons	19	4,139
South Africa	s.tons	181	143,421
USSR	s.tons	17	7,653
		45,514	$11,067,745

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	926,487	$ 1,280,576
A-C pipes, tubes & fittings	Lb	2,955,185	359,550
Other asbestos-cement articles	Lb	1,178,648	311,412
Other asbestos articles		..	557,497
			$ 2,509,035

JANUARY-FEBRUARY 1978

UNMANUFACTURED ASBESTOS:

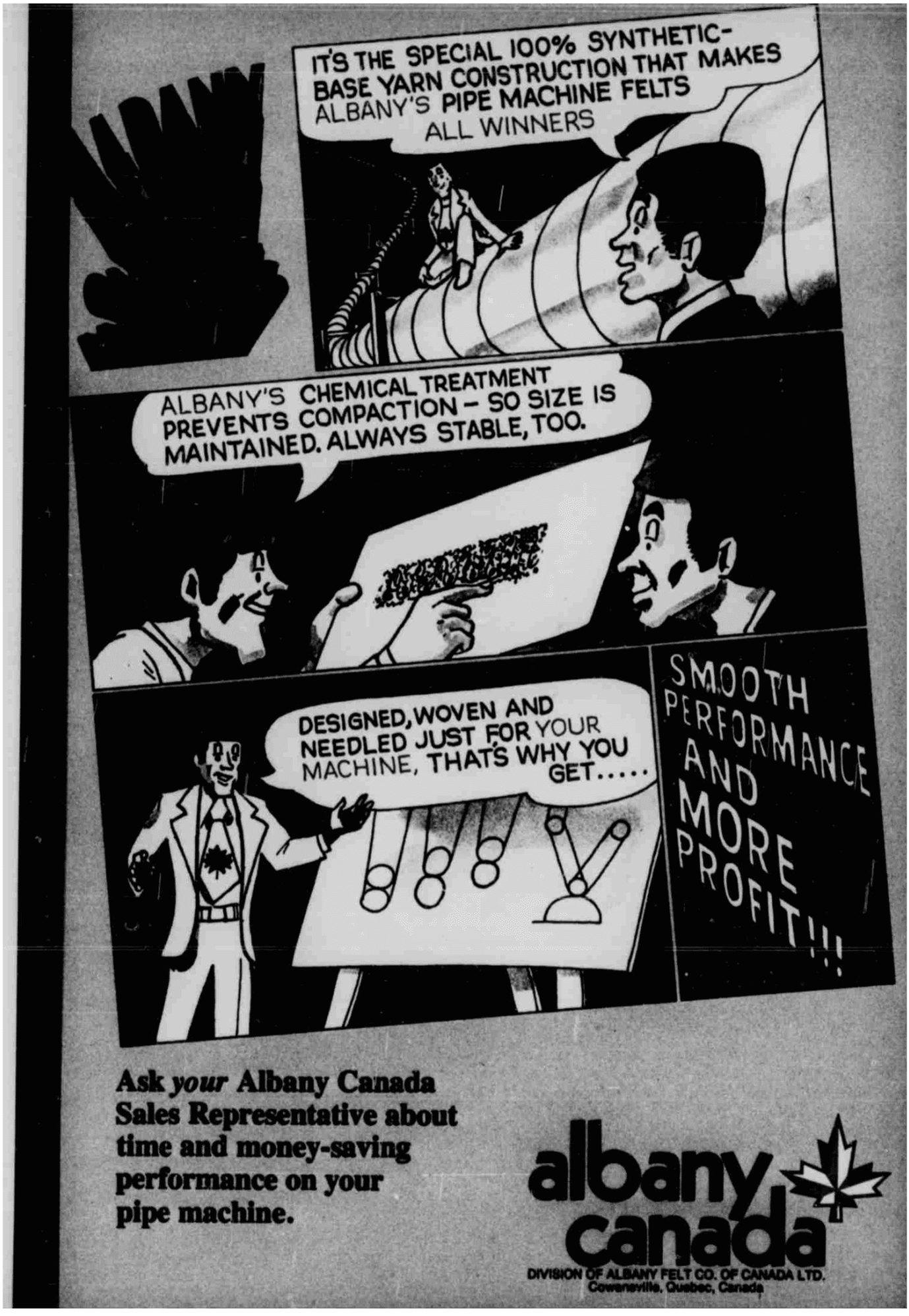
			$
Amosite	s.tons	..	..
Crocidolite (Blue), South Africa	s.tons	4,005	$ 2,506,705
Chrysotile, Crudes, Canada	s.tons	20	13,842
South Africa	s.tons	231	142,402
Chrysotile Spinning Fibers, Canada	s.tons	851	665,339
Chrysotile, Other, Canada	s.tons	82,543	20,345,464
Mexico	s.tons	34	349
South Africa	s.tons	61	40,667
Yemen	s.tons	48	28,578
Other Crudes & Fibers, Canada	s.tons	1,176	263,129
India	s.tons	19	4,139
South Africa	s.tons	331	238,159
USSR	s.tons	17	7,653
		89,336	$24,256,426

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	2,081,147	$ 3,100,935
A-C pipes, tubes & fittings	Lb	3,603,616	429,991
Other asbestos-cement articles	Lb	3,017,407	643,307
Other asbestos articles		..	1,215,953
			$ 5,390,186

January-February 1977: U.S. imports of unmanufactured asbestos totaled 83,130 short tons, valued at $21,276,939; imports of manufactured asbestos products were valued at $3,575,691.

Asbestos Magazine, 1978, June 1978
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Cowansville, Quebec, Canada

EXPORTS FROM THE UNITED STATES

From: U.S. Bureau of the Census

FEBRUARY 1978

UNMANUFACTURED ASBESTOS:

Asbestos Crudes, Fibers & Stucco	s.tons	822	$ 299,077
Asbestos Sand & Refuse	s.tons	994	221,788
		1,816	$ 520,865

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	967,291	$ 647,235
Asbestos-Cement shingles & clapboard	Lb	1,387,080	302,069
Other asbestos-cement articles	Lb	1,913,086	892,296
Asbestos gaskets	Lb	1,187,191	330,045
Asbestos packing & seals	Lb	239,982	723,732
Asbestos insulation		..	301,453
Brake linings & disc brake pads		..	1,776,101
Clutch facings & linings		..	894,680
Other asbestos articles		..	1,148,167
			$7,015,778

JANUARY-FEBRUARY 1978

UNMANUFACTURED ASBESTOS:

Asbestos Crudes, Fibers & Stucco	s.tons	2,170	$ 858,998
Asbestos Sand & Refuse	s.tons	2,733	660,599
		4,903	$ 1,519,597

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	1,745,109	$ 1,376,689
Asbestos-Cement shingles & clapboard	Lb	3,473,062	720,492
Other asbestos-cement articles	Lb	3,090,131	1,675,746
Asbestos gaskets	Lb	1,329,570	498,607
Asbestos packing & seals	Lb	1,849,880	1,987,276
Asbestos insulation		..	952,621
Brake linings & disc brake pads		..	3,738,975
Clutch facings & linings		..	1,838,949
Other asbestos articles		..	2,365,236
			$15,154,591

January-February 1977: U.S. exports of unmanufactured asbestos reached 5,695 short tons, valued at $1,678,116; exports of manufactured asbestos products were valued at $9,455,804.

Asbestos Magazine, 1978, June 1978
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EXPORTS FROM CANADA

From: Statistics Canada

FEBRUARY 1978
Short Tons

UNMANUFACTURED ASBESTOS:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	392	15,423	14,474
Eastern Europe	..	287	4,912	420
Middle East	..	..	..	279
Africa	..	..	1,817	15
Asia	..	45	6,415	9,309
Oceania	..	..	4,019	614
So. & Cen. America & Antilles	..	79	8,215	5,267
United States	..	592	8,276	50,778
	..	1,395	49,077	81,156

The total amount of unmanufactured asbestos exported in *February 1978* was 131,628 short tons, valued at $41,037,000.

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos cloth, dryer felts & sheets	$ 101,000
Asbestos brake linings & facings	199,000
Asbestos-Cement building materials	1,326,000
Other basic asbestos products	394,000
	$ 2,020,000

JANUARY-FEBRUARY 1978

UNMANUFACTURED ASBESTOS:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	791	28,201	20,771
Eastern Europe	..	287	5,937	625
Middle East	..	..	2,010	1,228
Africa	..	..	1,817	15
Asia	..	370	17,252	20,428
Oceania	..	2	5,634	1,026
So. & Cen. America & Antilles	..	195	15,553	8,105
United States	..	1,156	17,967	77,877
	..	2,801	94,371	130,075

The total amount of unmanufactured asbestos exported in *January-February 1978* was 227,247 short tons, valued at $76,376,000.

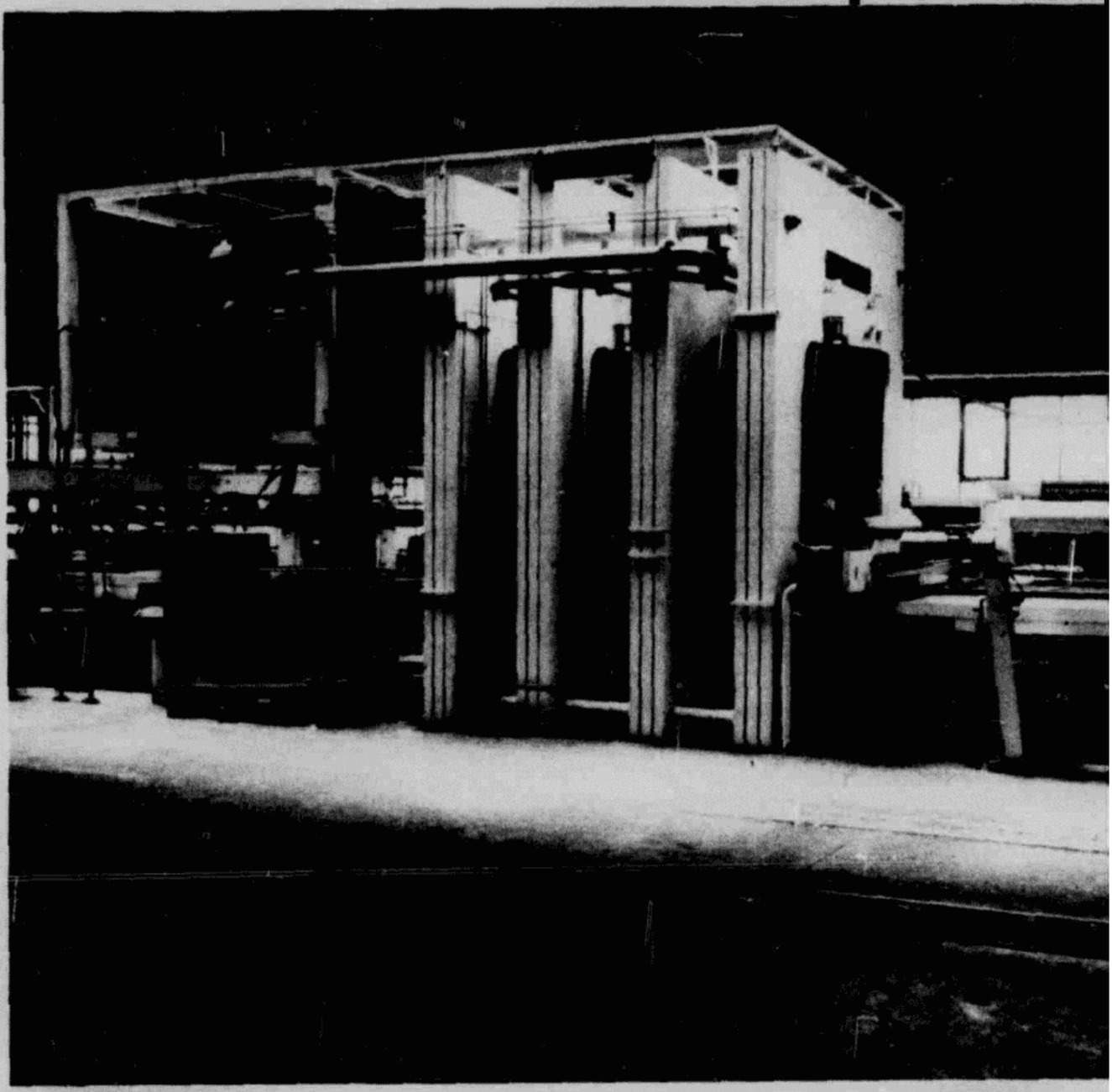
MANUFACTURED ASBESTOS PRODUCTS:

Asbestos cloth, dryer felts & sheets	289,000
Asbestos brake linings & facings	420,000
Asbestos-Cement building materials	2,097,000
Other basic asbestos products	764,000
	$ 3,570,000

January-February 1977: Canadian exports of unmanufactured asbestos totaled 247,010 short tons, valued at $83,145,000; exports of manufactured asbestos products were valued at $2,191,000.

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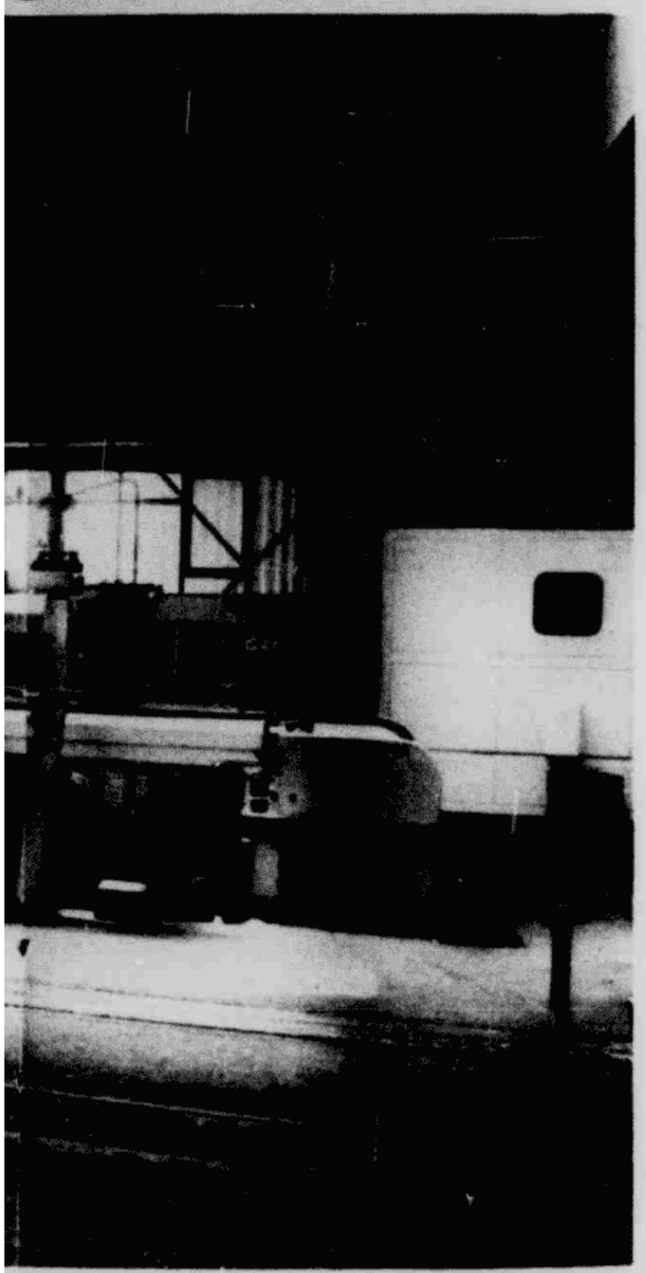
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asbestos-cement pipes

tic press lines ction of:



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Fully automatic press lines for the production of building elements

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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

MORE CHANGES AT VERMONT ASBESTOS

John Lupien, who had spearheaded the creation of the Vermont Asbestos Group, Inc., in 1975, was fired, May 17, 1978, as President of the VAG subsidiary, Vermont Industrial Products, Inc. All of his connections with the worker-owned company are now severed. He had been Chairman of the VAG Board, but had resigned in late March. According to Vermont newspaper reports, the current President and Chairman, Howard A. Manosh, said the dismissal had unanimous Board approval and that Mr. Lupien "had been out seeking a buyer for the company when he should have been working." The action occurred just five days after Mr. Lupien and the wealthy New York investor, Fred Schoeffer, had announced a bid to take over the company: offering $2200 a share for the stock of the firm. The stock originally sold for $50.00 a share. VAG's by-laws give the Board a "first refusal" right to repurchase any shares of stock committed to a potential buyer.

KOEGAS MINE MAY SHUT DOWN

In addition to the previously-announced cutbacks at the Penge and Koegas asbestos mines, involving some 4200 employees, Cape Asbestos S.A. (Pty.) Ltd. also said that at its Pomfret mine in the Vryburg District of the Northern Cape, the planned rate of production had been reduced earlier this year. The statement included the warning that the continued operation of Koegas facility, opened in 1892, had been sustained in recent years because of the need to supply the market, even at an increasingly uneconomical cost. The company further stated that although every effort is being made to continue mining, it is likely the mine will be closed late this year, resulting in the loss of a further 1050 jobs. [Chamber of Mines Journal, Rhodesia]

SURVEY ON BOTSWANA

An airborne magnetic survey recently done in Botswana has revealed that geophysical conditions are evident which point to the possible existence of oil and natural gas deposits in the southwest region of the country. Also possible is the existence of asbestos, chromite, iron, manganese and platinum. Final results of the study are not known at this time. [Standard Chartered Review]

JAPANESE FIRM OFFERS AID TO USSR

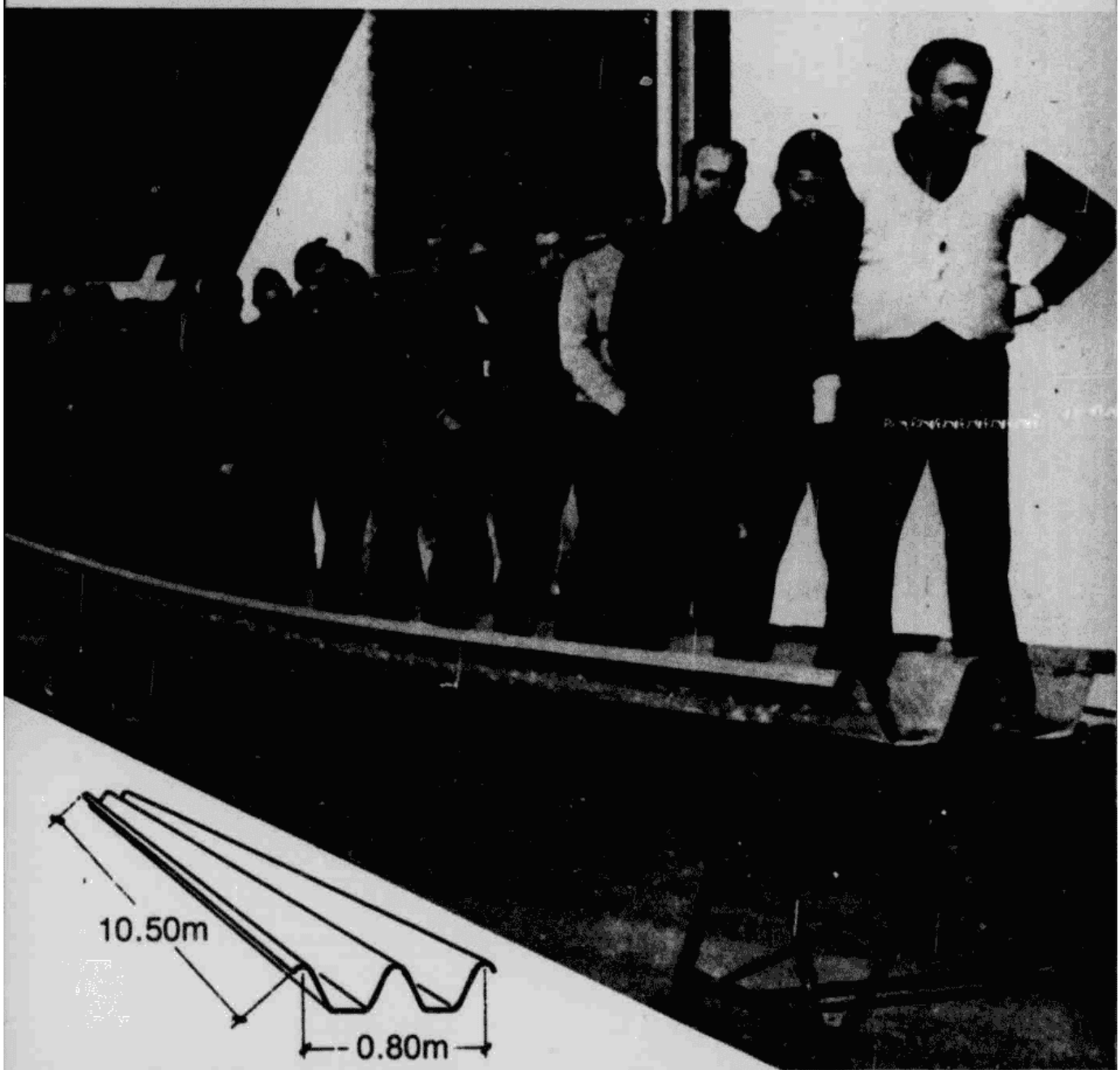
Itohchu Shoji K.K., Tokyo, proposes to cooperate with the Soviet Union in developing its asbestos industry, especially in the area being opened by the installation of the Baikal-Amur Railway. Itohchu has been working with Soviet enterprises on oil and gas prospecting near Sakhalin Island, in the Soviet Far East. [Soviet Weekly]

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+ asbestos
+ cement

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ANNUAL REPORTS—1977

JOHNS-MANVILLE CORPORATION

Net sales for Johns-Manville Corporation in the year 1977 totaled $1.5-billion against $1.3-billion in 1976. Net earnings reached $103-million or $4.78 per share vs. $53-million and $2.64. Capital expenditures increased 37.5% to $95.5-million. The key element in Johns-Manville's 1977 success story was that net earnings from U.S. operations were more than double 1976 levels. Total J-M sales and earnings reached record highs. Opportunities for improving profitability in pipe, roofing and insulations were identified and capitalized on in 1977. Asbestos fiber, while contributing substantially to earnings, has assumed a less important position with the earnings growth of J-M's other basic businesses. Although its profitability is expected to improve in the long term with reviving European economies, J-M does not expect asbestos fiber to dominate its earnings to the extent it has in the past. The company has also consolidated and repositioned some business for more profitable growth and phased out others not important to the future direction of the company.

Glass Fiber Products—Total revenues climbed to a record $407-million, up 14% over 1976. Likewise, income from operations reached $82-million, up 37% on a year-to-year basis. The company is convinced that glass fiber will remain the preferred insulation product long after its growth rate slows in about five years. Glass fiber mat for roofing and other uses will provide additional growth opportunities.

Non-Glass-Fiber Insulations—This segment of J-M's business, which includes asbestos paper and millboard, posted record sales and earnings for the year. Revenues were up 23%, at $195-million, and income from operations rose 53%, to $28-million. The majority of the company's domestic non-glass-fiber insulation lines closed out the year running near capacity.

Pipe Products & Systems—This category includes asbestos-cement air vent duct, water and sewer pipe and electrical and telephone duct. Revenues were a record $274-million compared with $218-million in 1976. The more direct reasons for the sharply-improved profitability of J-M's pipe business were found in improved pricing policies for PVC plastic pipe and better capacity utilization of a-c pipe. PVC pipe accounted for about 40% of J-M's total dollar volume of pipe sales and ran at capacity for the second consecutive year. A-C pipe production responded to renewed demand from the marketplace by advancing to a utilization rate of about 70% of six-day capacity compared with 55% the prior year. This factor, coupled with moderate price advances, led to improved earnings. The a-c product group represents about 60% of total dollar volume of pipe sales.

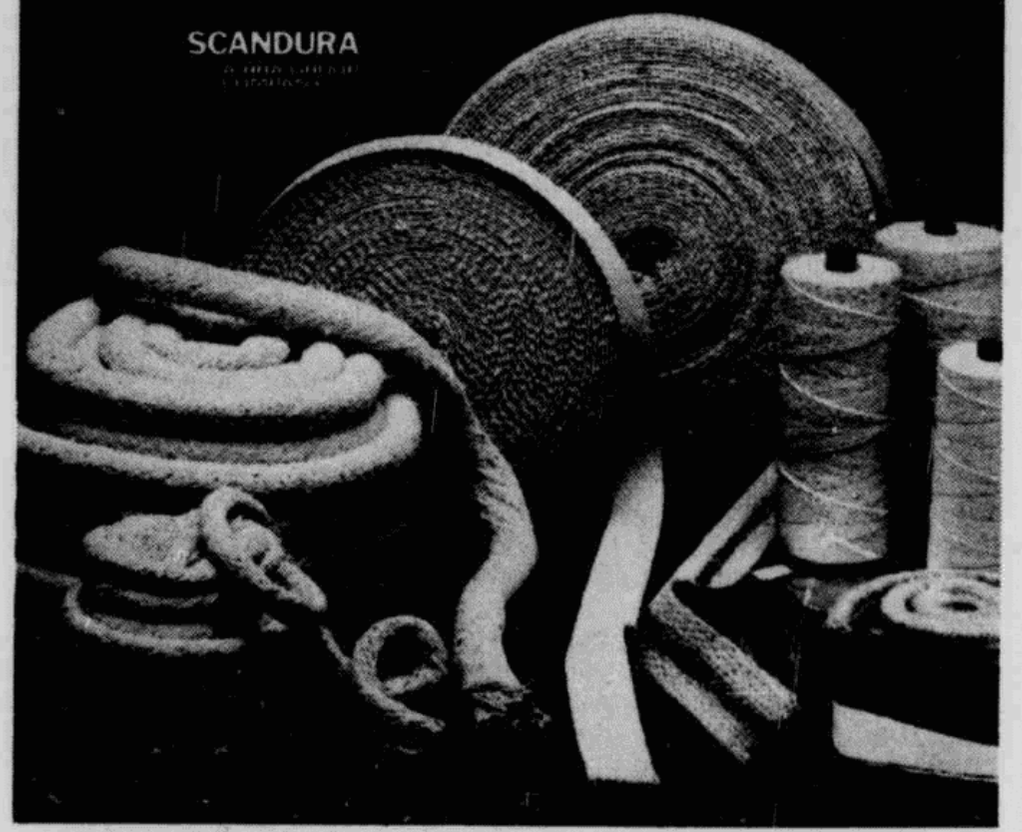
Roofing Products—Performance of this business was characterized by a high level of demand resulting in record sales and earnings. Most roofing products were on allocation throughout the latter part of the year,

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with demand extending well into the fourth quarter to offset the seasonal decline normally experienced by this business. Revenues amounted to $204-million, up 19%. Income from operations was $14-million, a 64% increase.

Asbestos Fiber—The asbestos fiber business of Johns-Manville accounted for a lesser portion of total company sales and earnings in 1977 due to both the softened demand for asbestos overseas and to the growth of other businesses. Revenues were $161-million compared with $155-million in 1976. Income from operations reached $60-million. Weakened demand, particularly in Western European markets, began to affect asbestos sales negatively at mid-year. This reflected both customers' decisions to reduce inventory stockpiles accumulated during the prior shortage and generally lagging economic recoveries throughout Western Europe and Japan. For the most part, pricing did not suffer any erosion as a consequence of reduced demand—but costs did increase. Total shipments of asbestos from the Jeffrey Mine in Quebec were about 85% of capacity during 1977. The $77-million, five-year capital expenditure program, designed to ensure continuing profitable and safe mining operations at Jeffrey for the next 15 years, completed its second year on schedule.

Industrial & Specialty Products & Services—This group includes asbestos-cement industrial and architectural sheets; asbestos felts, papers and textiles; and a-c shingles. Revenue generated by this diverse business segment amounted to $301-million, a 3% decrease from 1976. Income from operations rose 36% to $25-million.

The Future—As for 1978, it is the current consensus among economists that the major markets affecting Johns-Manville will perform well. New home construction will continue strong, though possibly tapering off somewhat from the levels of 1977. Significant improvement should be noted in nonresidential building activity. Likewise, a recovery in spending by states and municipalities should bolster demand for pipe and other construction materials in the coming months. Consumer confidence shows many signs of remaining strong. The step-up in U.S. business investments should begin extending into Canada, Japan and Western Europe in the foreseeable future.

CERTAINTEED CORPORATION

For the year ended December 31, 1977, CertainTeed Corporation recorded net sales of $818.1-million, up 23% over the previous year; net income of $54.2-million, up 48%; capital expenditures of $81.4-million, up 34%; and total assets, $611.3-million, up 29%. Roofing, vinyl siding and wholesale distribution of building materials accounted for 43% of total sales; glass fiber insulation, reinforcements and bonded mat represented 31%; and 26% of 1977 company sales were contributed by piping products. The company is a major producer and distributor of building materials and ranks among the top 300 industrial companies in the United States. Products manufactured and marketed by CertainTeed include glass fiber insulation, roofing, vinyl siding, glass fiber products for rein-

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forced plastic applications and polyvinyl chloride and asbestos-cement pipe. More than two-thirds of its business is conducted in building materials markets while the remainder is channeled into water, sewer, automotive and other industrial and commercial markets. Remodeling and retrofit is the largest sector representing about 30% of total sales.

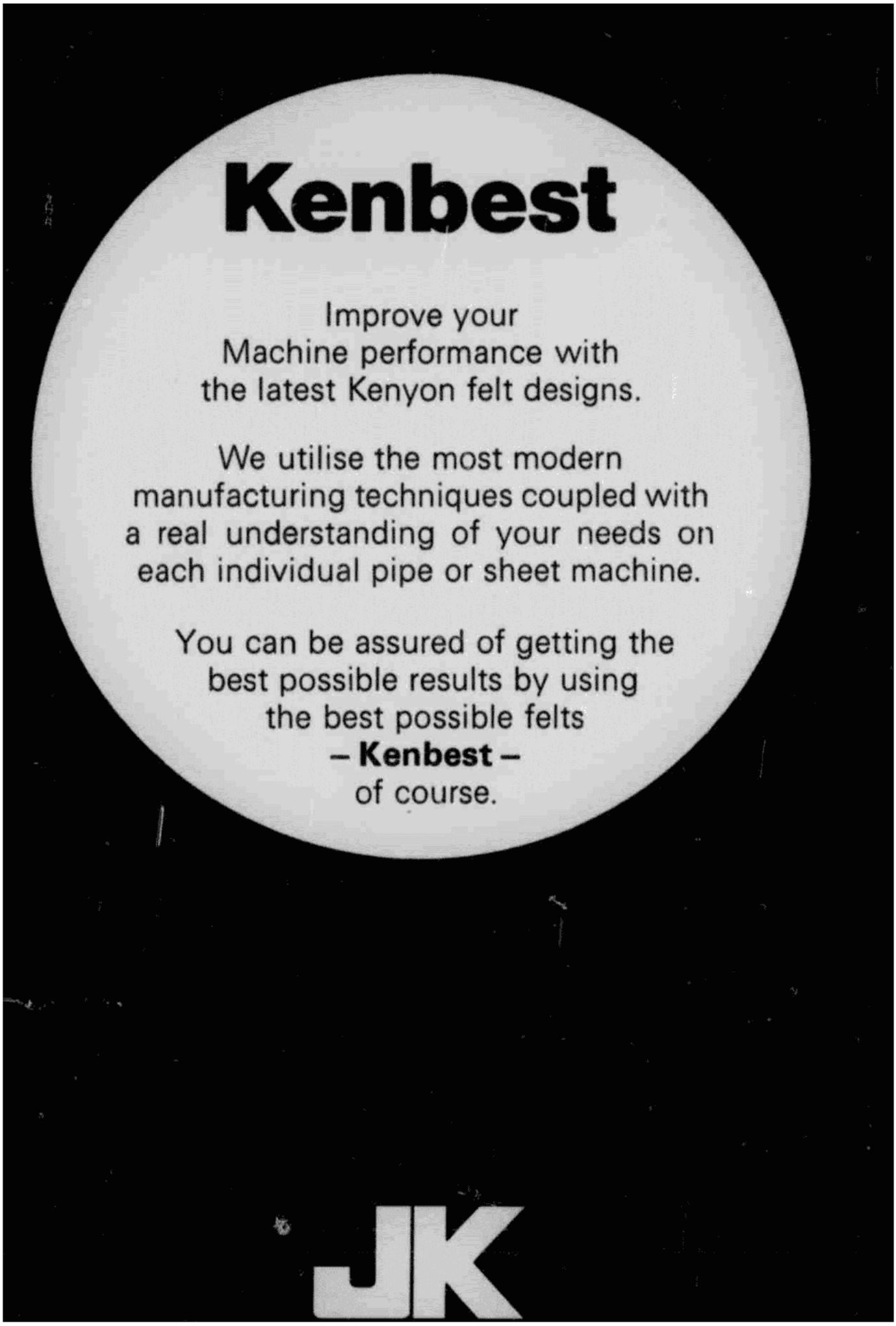
Glass Fiber & Vinyl Products—In October the Board of Directors approved a three-year, $250-million capital expenditure program with 75% of the funds earmarked for glass fiber projects. During the five-year period ending 1981, CertainTeed will double its capability to produce glass fiber insulation. Industry expansion is projected at an average annual growth rate of 12% through 1984. . . . CertainTeed now is positioned well to penetrate the glass fiber residential roofing market which is slated to grow at an average rate of over 20% through 1983. . . . Over the next five years the market for vinyl siding is expected to double. By mid-1978, the company will have increased production capacity about 70%.

Favorable Trend in Pipe Markets—Anticipated construction activity, steady gains in consumer spending and a predicted rise in public works projects augur well for CertainTeed's growth in piping products. Increased construction activity in 1977 contributed to the recovery of the asbestos-cement pipe market with particular momentum gained in the West and Southwest. A-C pipe sales increased more than 20% over 1976 and profitability was up in spite of sharply-escalated asbestos fiber prices. Due to its cost effectiveness and comparable performance, a-c pipe is proving an attractive alternative to ductile iron pipe for municipal water systems. . . . PVC pipe sales moved ahead on the strength of demand for pressure and water pipe and a 43% increase in sales was realized. . . . Depressed crop prices, surpluses of grain, and over-extension of loan positions among farmers contributed to soft market conditions for irrigation pipe late in the year. This situation is expected to continue into 1978.

THE FLINTKOTE COMPANY

The Flintkote Company is a major producer of basic materials and products for the building and construction industries in the United States and Canada. It also is engaged in paving contract construction in certain geographic areas of both countries. Over 50% of Flintkote's sales in 1977 were from products and services supported by the company's natural resources. These product lines include cement, lime, gypsum, a variety of stone products, sand and gravel. Services consist basically of paving and related construction work. Sales and earnings of the company reached record levels in 1977. Sales were up 20% over 1976, at $587.4-million, and earnings more than doubled to $20.8-million or $3.22 per share. Contribution to total net sales, by product category, was 55% from building products, 18% from cement and lime products, 16% from stone products and 11% from Canadian Operations. Estimated percentages of total Flintkote sales derived from the categories which compose the building and construction industries are 40% for new residential building, 23% for new nonresidential building, 10% for new nonbuilding construc-

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tion, 19% for repair and modernization and 8% for other markets.

In October it was announced that Flintkote and Anglo-American Clays Corporation, Atlanta, Georgia, had formed a company to produce ultra-fine ground limestone from deposits at Flintkote's plant in Texas, Maryland. The necessary processing facilities are now under construction. Flintkote also announced, in August, the acquisition of a 44% interest in Polymer Building Systems, Inc., Riverside California, to produce urethane-core insulation panels.

Building Products—In general, building products had an excellent year in 1977 and, as stated previously, provided 55% of total company sales. The product lines and services comprising this group are particularly sensitive to homebuilding and profited from the upturn in building activity during the year. Non-residential building, which usually lags behind home-building, began to show signs of recovery in most areas of the U.S. The upward trend is expected to continue this year and should compensate for any downward adjustment in residential building. Net sales by products and services in the building products segment of Flintkote's business in 1977 were 46.5% for roofing and insulation, 28% for gypsum, 10.5% for flooring, 12% for supply-purchased products and 3% for other products and services.

BBA GROUP LTD.

BBA Group Ltd. reported automotive sales of £77,943,000 and industrial sales of £27,865,000 or total Group sales of £105,808,000 for the year 1977, 6.8% higher than in 1976. Sales by companies in the United Kingdom rose 15.2% and accounted for the overall improvement. Direct exports at £12,708,000 were virtually the same as in the prior year and represented 26.2% of U.K. company sales. These, together with sales by overseas companies, totaled £69,986,000 and amounted to 66.1% of the total turnover. Profit before tax was lower than in 1976, amounting to £7,005,000—mainly attributable to reduced earnings at the automotive company in Germany. Capital expenditures reached £7,456,000 in 1977 and were authorized at £8,863,000 for 1978. On April 4, 1977, the Group acquired the 25% interest of The Bendix Corporation in the share capital of Textar GmbH. Textar is now a wholly-owned subsidiary company of BBA.

Scandura Ltd., in the U.K., recorded a small increase in sales and a reduction in profits, due principally to lower export business for several Scandura products. Sales of Gold Line mining belting to the Republic of South Africa were particularly low. Development work to expand the range of conveyor belting offered for bulk handling of materials was intensified. . . . *Scandura Inc.*, in the United States, achieved slightly increased sales but profits continued at the lower level of the previous year. The market for mining belting remained depressed, a situation which was aggravated by a strike in the coal mines toward the end of the year. The introduction of new types of belting to the general industrial market has helped to mitigate this situation. . . . *Scandura Canada Ltd.* traded more successfully than in 1976 and recorded a profit.

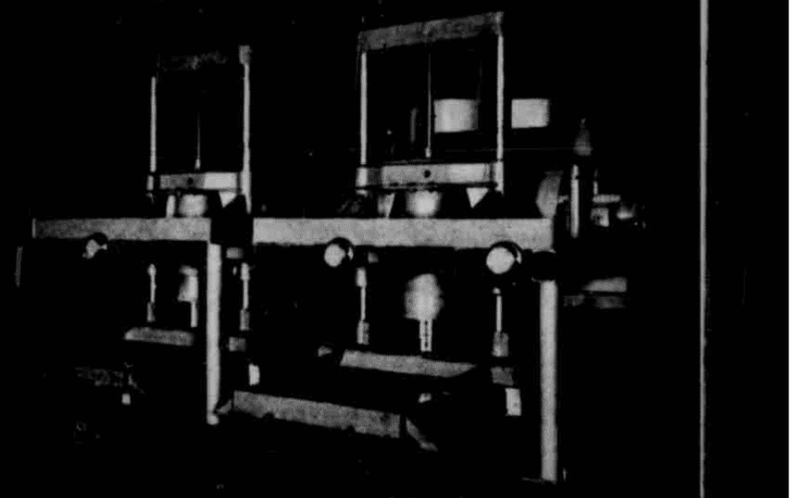
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ASBESTOS STOCK QUOTATIONS

Close—May 16, 1978

Abitibi Asbestos	C$.84
Advocate Mines	C$2.90
Armstrong Cork	18⅜
Armst. Cork (pfd 3.75)	46
Asarco	16⅞
Asbestos Corporation	C$39.625
Bendix	37½
Bendix (pfd 3)	74½
Carlisle	29⅛
Cassiar Asbestos	C$9.875
CertainTeed	23⅞
Charter Conso.	pence 135
Colt Industries	58¼
Colt Ind. (pfd. 1.60)	30¾
Colt Ind. (pfd 4.25)	83½
Conwest	C$4.90
Flintkote	26½
F-kote (pfd-B 2.25)	35½
GAF Corporation	14
GAF (pfd 1.20)	18⅞
Gulf & Western	14¾
G&W (pfd 2.50)	34
G&W (pfd 3.87)	70¼
IC Industries	25¼
IC Ind (pfd 3.50)	44
Jim Walter Corporation	32¾
Jim Walter (pfd 1.60)	34⅞
Johns-Manville	33⅝
Kennecott Copper	22⅞
Lear Siegler	19⅞
Lear Siegler (pfd 2.25)	49½
Maremont	20
McAdam Mining	C$.28
National Gypsum	18⅜
Pathfinder	C$.25
Raybestos-Manhattan	31⅞
Rio Algom	C$28.75
Rio Algom (pfd 5.80)	C$75.625
Supradur	Bid 5¾; Asked 6¼
Union Carbide	42
Woodsreef Minerals	C$.58

ASTM STANDARDS & SPECIFICATIONS

[THE FOLLOWING STANDARDS AND SPECIFICATIONS ARE OBTAINABLE, AT $1.75 PER COPY, FROM THE AMERICAN SOCIETY FOR TESTING AND MATERIALS, 1916 RACE STREET, PHILADELPHIA, PENNSYLVANIA 19103.]

C 220 77—Specification for Flat Asbestos-Cement Sheets; Revision of Standard, Part 16, 1978.

C 221 77—Specification for Corrugated Asbestos-Cement Sheets; Revision of Standard, Part 16, 1978.

C 428-77a—Specification for Asbestos-Cement Nonpressure Sewer Pipe; Revision of Standard, Part 16, 1978.

C 644 77—Specification for Asbestos-Cement Nonpressure Small Diameter Sewer Pipe; Revision of Standard; Part 16, 1978.

C 875 77—Specification for Asbestos-Cement Conduit and Fittings; New Standard; Part 16, 1978.

D 123 77—Definitions of Terms Relating to Textiles; Revision of Standard; Published November 1977; Parts 32 and 33, 1977.

E 605 77—Tests for Thickness and Density of Sprayed Fire-Resistive Material Applied to Structural Members; New Standard; Part 18, 1978.

ASTM Standards Adopted by the U.S. Department of Defense—Among the numerous ASTM Standards adopted by DOD are the following related to ASTM Committee C-17 on Asbestos-Cement Products: *C 220 75*—Specification for Flat Asbestos-Cement Sheets; *C 221 74*—Specification for Corrugated Asbestos-Cement Sheets; *C 296 76*—Specification for Asbestos-Cement Pressure Pipe; and *C 459 63 (1976)*—Sampling and Testing Asbestos-Cement Flat Sheets, Roofing and Siding Shingles and Clapboards. A complete listing of the adopted Standards appeared in the January 1978 issue of "ASTM Standardization News."

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MEN ON THE MOVE

CERTAINTEED CORPORATION

Donald E. Meads has resigned as Chairman and Chief Executive Officer of CertainTeed Corporation. *Marcel Levecque*, former Executive Vice President and Chairman of the Operating Committee, has been named Chief Executive Officer and President of the company. Mr. Levecque is associated with Compagnie Saint Gobain-Pont-a-Mousson, a French concern which owns about 54% of CertainTeed stock. *John T. Gurash* is now Chairman of CertainTeed. He is a Director of the company and Chairman of the Executive Committee of INA Corporation. *Roger Martin*, President and a Director of St. Gobain, was named Vice Chairman of CertainTeed.

NATIONAL INSULATION CONTRACTORS ASSOCIATION

Curtis T. Mackey was appointed Executive Vice President of the National Insulation Contractors Association. He is a retired Lieutenant Colonel, Army Corps of Engineers, and has been involved in construction association work in the Washington, D. C., area for the past seven years.

THE NORTHERN MINER

After 44 years with "The Northern Miner" (29 as Editor), *John W. Carrington* has retired, having reached his 65th birthday. He has agreed, however, to serve as an Editorial Consultant. Mr. Carrington has been succeeded as Editor of the esteemed mining newspaper by *Maurice Russell Brown*, who himself has spent the last 29 years with the publication.

RAYBESTOS-MANHATTAN, INC.

The Board of Directors of Raybestos-Manhattan, Inc., has elected *Gabriel Ferrucci* a Vice President of the corporation. Mr. Ferrucci, who joined R/M in 1971, is President of Raybestos Manhattan Industrial Products Company.

TURNER & NEWALL LTD.

As a result of the increasing worldwide friction materials activities of Turner & Newall, its subsidiary, Ferodo Ltd., has created an International Division. *P. M. Howlett*, a Director of Ferodo, has been named General Manager of the new Division, Chairman of Ferodo GmbH (Federal German Republic) and a Director of Ferodo Italiana. He also will coordinate the activities of Ferodo in South Africa, of Nuturn in the United States and of the Friction Materials Division of Hindustan Ferodo, India, and will act as liaison between associated Ferodo companies in Australia, Belgium France, Italy and Spain.

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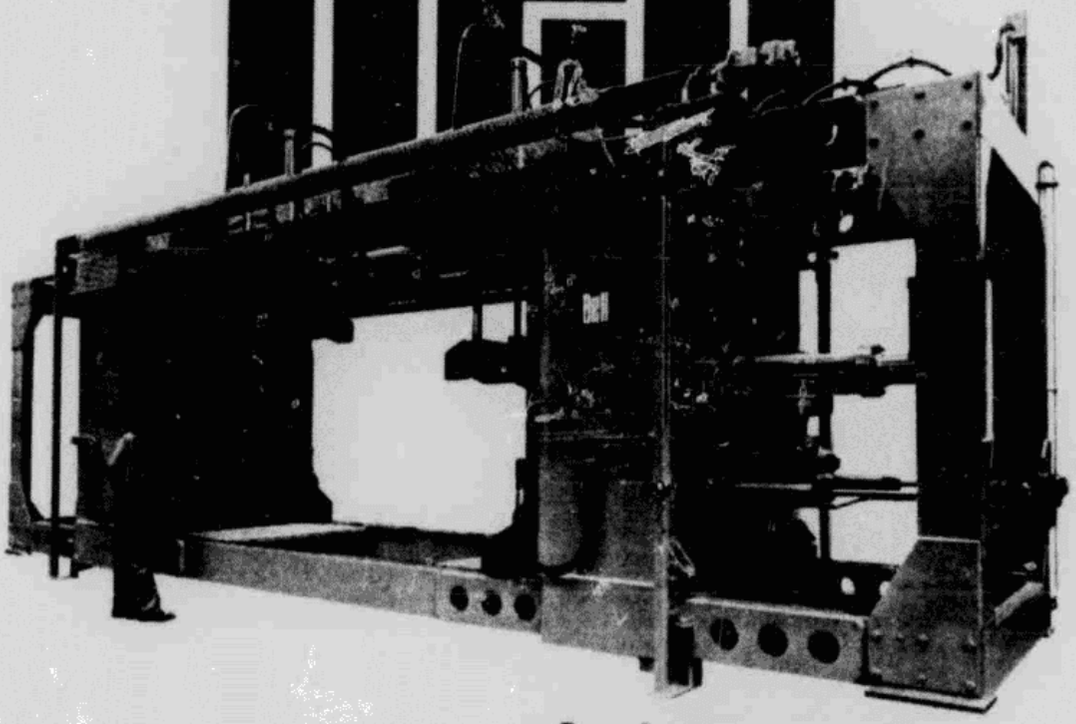
BIRTHDAY GREETINGS to . . .

Edward W. Drislane, Secretary, Friction Materials Standards Institute, Inc., Paramus, New Jersey, June 29.
D. C. Cook, General Mill Superintendent, Cassiar Mine, Cassiar Asbestos Corporation Ltd., Cassiar, British Columbia, July 15.
Dr. Ernst J. Schmidheiny (Switzerland), Chairman, Everite Ltd., Johannesburg, Republic of South Africa, July 16.
W. Ray Blankenship, Vice President-Sales, Pipe & Plastics Group, Certain-Teed Corporation, Valley Forge, Pennsylvania, July 17.
Ronald L. Cutler, Vice President-Sales, Friction Products Group, Abex Corporation, New York City, July 17.
Harry A. Jensen, Executive Vice President, Armstrong Cork Company, Lancaster, Pennsylvania, July 17.
Richard J. Boehm, Manager-Field Personnel Operations, Asarco Inc., New York City, July 18.
W. R. Doughty, Chief Executive, Building and Insulation Division, and a Director, Cape Industries Ltd., London, England, July 18.
Lawrence B. Lee, Controller, Raybestos Manhattan Industrial Products Company, North Charleston, South Carolina, July 18.
Roy A. Jann, Vice President-Marketing, RM Friction Materials Company, Raybestos-Manhattan, Inc., Trumbull, Connecticut, July 19.
Victor L. Persbacker, Vice President-Administration, Abex Corporation, New York City, July 20.
William S. Simpson, Chairman of the Board and Chief Executive Officer, Raybestos-Manhattan, Inc., Trumbull, Connecticut, July 21.
Paul E. Leclerc, Sales Director, Asbestos Corporation Ltd., Montreal, Quebec, July 22.
Robert C. Congdon, Eastern Regional Manager, Carey-Canadian Mines Ltd., Lebanon, New Jersey, July 23.
Charles J. DeBiase, Senior Vice President-Production and Technology, Johns-Manville Corporation, Denver, Colorado, July 23.
J. F. Collins, Vice President-Marketing, Union Carbide Corporation, Metals Division, Niagara Falls, New York, July 24.
Dimitry Poutiatine, Director of Marketing, Asbestos Fiber Division, Johns-Manville Corporation, Denver, Colorado, July 25.
M. Sanfeliu, President, Frenos y Embragues S.A., subsidiary of BBA Group Ltd., Barcelona, Spain, July 25.
Richard C. Wareham, President, Special Materials, Inc., Milwaukee, Wisconsin, July 26.
R. Frank Carmazzi, a Sales Representative, Southern Asbestos Company, Urbana, Ohio, July 13.
J. P. Farrell, Deputy Chief Executive, Building and Insulation Division, Cape Industries, Ltd., London, England, July 31.
George Sidlo, Manager, Ragland Plant, Cement Asbestos Products Company, Ragland, Alabama, July 31.
W. Horace Beasley, Vice President-Controller, Cement Asbestos Products Company, Birmingham, Alabama, August 1.
B. G. Pewsey, Mine Manager, Cassiar Mine, Cassiar Asbestos Corporation Ltd., Cassiar, British Columbia, August 1.
T. A. Dougherty, Senior Vice President, Pipe & Plastics Group, Certain-Teed Corporation, Valley Forge, Pennsylvania, August 3.

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Asbestos Cement Machines

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Pipe inside diameter
150 to 1300 mm

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Stackers and Corrugators
Stack transport systems

Pipe machines
Pipe curing and rounding systems
Pipe finishing machines

Watering vacuum pumps
Asbestos board machines

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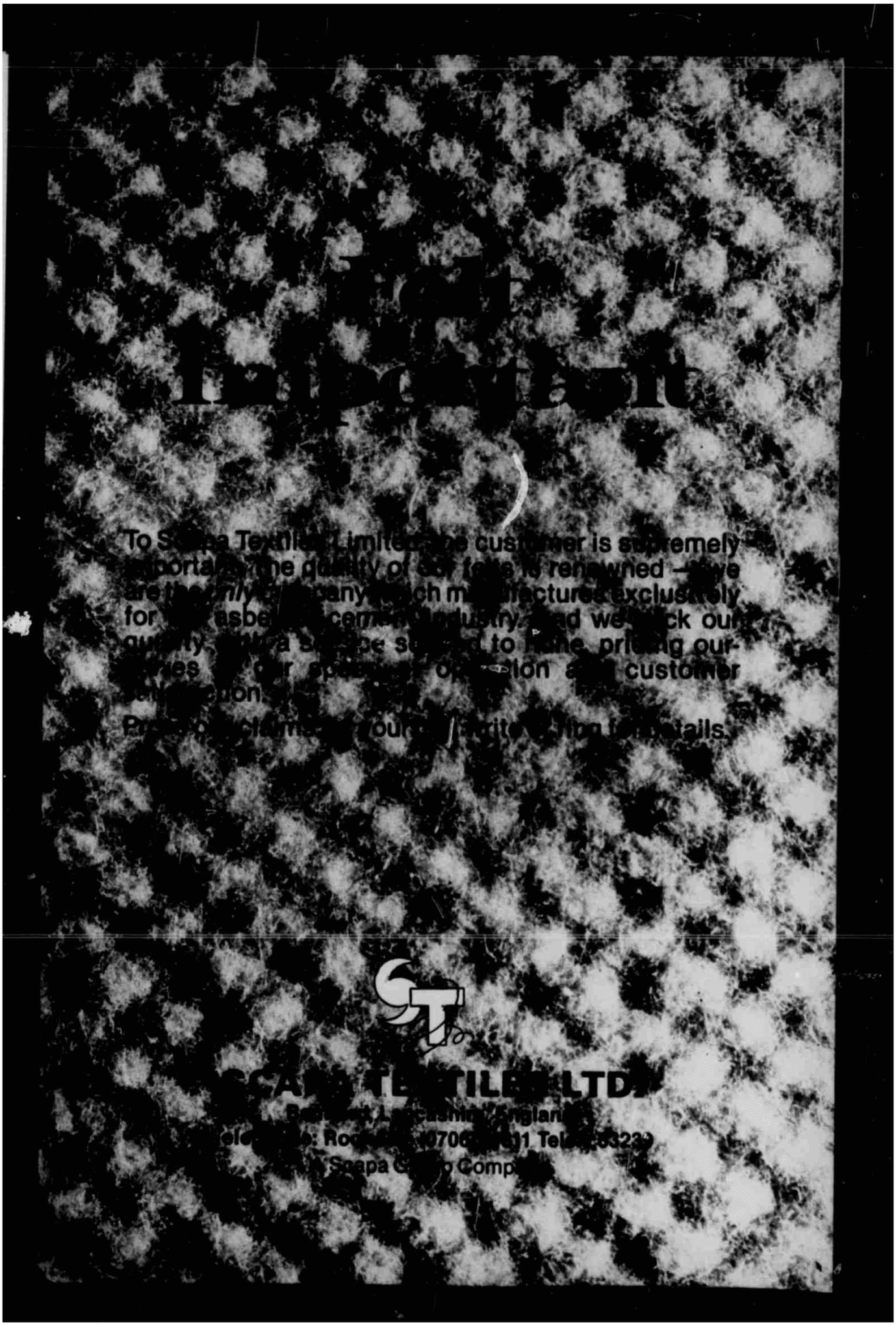
N. George Belury, President and Chief Executive Officer, Abex Corporation, New York City, August 4.
Joe B. Cordell, President and Chief Operating Officer, Jim Walter Corporation, Tampa, Florida, August 4.
H. Kenneth Passmore, Secretary-Treasurer and a Director, Hedman Mines Ltd., Timmins, Ontario, August 5.
R. E. Byrne, Jr., Domestic Sales Manager-Asbestos, Union Carbide Corporation, Metals Division, Niagara Falls, New York, August 6.
C. G. Morgan, President, Continental Products Corporation, Chicago, Illinois, August 7.
A. Nelson Muncy, Vice President and Plant Manager, Jaquays Asbestos Corporation, Globe, Arizona, August 7.
Gerard A. Piche, Vice President and Mine Project Manager, Canadian Johns-Manville Co. Ltd., Asbestos, Quebec, August 7.
R. C. Braun, Secretary-Treasurer, Niagara Insulations, Inc., Buffalo, New York, August 8.
Dewey E. Childers, Quality Control Manager, Southern Asbestos Company, Charlotte, North Carolina, August 8.
J. L. Myers, Marketing Manager-Asbestos, Union Carbide Corporation, Metals Division, Niagara Falls, New York, August 8.
Thomas P. Jackson, Product Manager-Packing Rings and Textiles, Johns-Manville Sales Corporation, Denver, Colorado, August 9.
R. A. Stapleton, Vice President and General Manager-Industrial Products, Johns-Manville Corporation, Denver, Colorado, August 10.
Melvin H. Baker, Honorary Chairman of the Board, National Gypsum Company, Dallas, Texas, August 11.
H. B. E. Stowe, General Manager, Shabanie Mine, Rhodesian & General Asbestos Corporation (Pvt) Ltd., Shabanie, Rhodesia, August 11.
Grant V. Wilson, President, Grant Wilson, Inc., Chicago, Illinois, August 11.
G. A. McCammon, Vice President-Finance, Asbestos Corporation Ltd., Montreal, Quebec, August 12.
Gaston Verreault, Production Manager, Lake Asbestos of Quebec Ltd., Black Lake, Quebec, August 12.
Alex A. Cross, Director General, Asbestos International Association, London, England, August 13.
Paul Kotin, M.D., Senior Vice President-Health, Safety and Environment, Johns-Manville Corporation, Denver, Colorado, August 13.

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VALUABLE LITERATURE

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JOURNAL OF TOXICOLOGY AND ENVIRONMENTAL HEALTH—Publishes original papers within the broad fields of toxicology, teratology, environmental toxicology, drug metabolism, carcinogenesis, mutagenesis and health effects of toxic and environmental factors; includes original research on induction and expression of toxicological phenomena and the associated human risk to environmental insults; covers papers pertaining to the safety evaluation of therapeutic, industrial and environmental agents; Volume 4 includes a paper titled "Variation of Properties of Chrysotile Asbestos Subjected to Milling," by A. M. Langer, et al. [6 issues per volume; for further information, contact Hemisphere Publishing Corporation, 1025 Vermont Avenue, N.W., Washington, D. C. 20005]

OCCUPATIONAL SAFETY AND HEALTH COMPLIANCE SERVICE—Includes the looseleaf OSHA Compliance Manual, updates and newsletters every three months, action bulletins and an information hot line; discusses inspections, citations, penalties, appeals, your rights and responsibilities, what OSHA requires of the employer, recordkeeping and reporting, minimizing the cost of compliance, how to develop your own safety and health compliance program and where to obtain additional assistance. [$115.00; Center for Compliance Information]

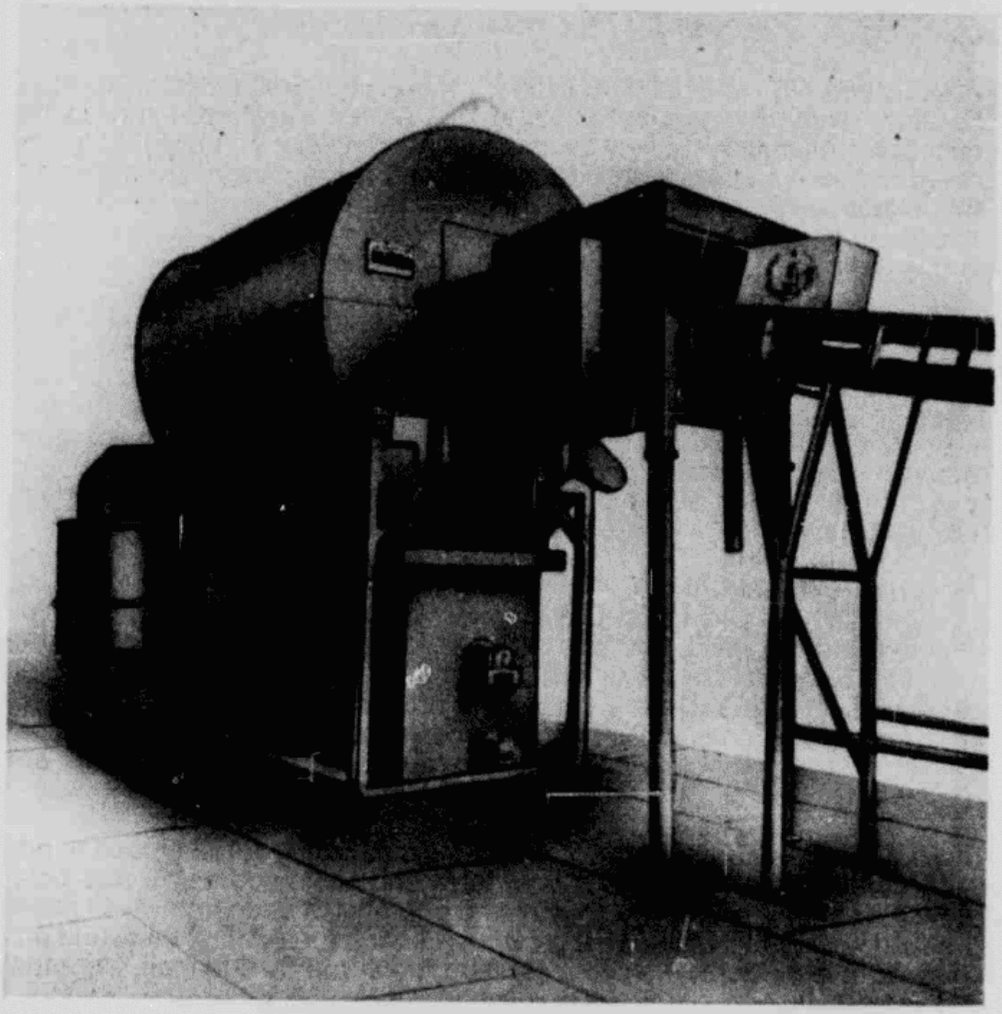
THE TOXIC SUBSTANCES CONTROL SOURCEBOOK—An easy-to-understand source of information to help companies comply with the various laws governing toxic substances control; discusses how toxic substances are regulated, the substances under evaluation or regulation (including asbestos), impact on industry, management techniques, worker health (including asbestos and occupational disease) and significant cases involving toxic substances (including airborne asbestos and asbestos fibers). [620 pages, $59.50; Center for Compliance Information]

DOING BUSINESS ABROAD: JOYNER'S GUIDE TO OFFICIAL WASHINGTON—Identifies virtually all U.S. government experts, services and documents for each facet of international business including exporting, importing, licensing, investment, finance and foreign travel; lists, by subject, over 2,000 specialists and 800 free or low-cost services; contains a comprehensive bibliography of periodicals, market surveys and publications pertaining to international business. [400 pages; $95.00, plus $7.50 for shipments outside the United States and Canada; Joyner and Associates, Inc.]

CHEMICAL-RESISTANT, NON-METALLIC MATERIALS; CLAY AND CONCRETE PIPE AND TILE; MASONRY MORTARS AND UNITS; ASBESTOS-CEMENT PRODUCTS—Part 16 of the 1978 Book of ASTM Standards; of the 113 Standards listed, 46% are new, revised or changed in status since

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the 1977 edition; one of the new Standards is "Specification for Asbestos-Cement Conduit and Fitting." [575 pages; $17.00, plus 3% shipping charges to the United States, Canada and Mexico and 5% to all other countries; American Society for Testing and Materials]

ADHESIVES TECHNOLOGY ANNUAL, 1978—First Edition, edited by M. J. Satriana; practical manual based on U.S. patent literature; presents the necessary chemistry as well as changing technology and applications to serve the varied interests of the makers and users of adhesives; reveals that major replacements for solvent-based adhesives are being sought in the areas of two-component reactive adhesives, hot melt, photoreactive and water-based systems. [305 pages; $40.00; Noyes Data Corporation]

MINERAL PROCESSING PLANT DESIGN—Textbook edited by A. L. Mular and R. B. Bhappu; covers the growth in ion exchange, autogenous grinding, control instrumentation and computers, development of larger unit operations and greater plant flexibility, use of more automatic control, application of information theory, new process applications and the growing awareness of technology's responsibility to society and nature. [883 pages; $28.50; add $2.10 for shipments outside the United States and Canada; Society of Mining Engineers of AIME]

PRIMARY CRUSHING PLANT DESIGN—Monograph by F. W. McQuiston, Jr., and R. S. Shoemaker; offers detailed illustrations of 24 primary crushing installations; discusses the history and selection of crushers, use of grizzlies, design of the dump pocket, overhead cranes, drives and mountings, crushed ore pockets and feeders, crusher enclosures, jaw crushers and impactors, crushing in the pit and mobile primary crushers. [246 pages; $31.50, plus $2.10 for shipments outside the United States and Canada; Society of Mining Engineers of AIME]

INDUSTRIAL MINERALS DIRECTORY—Guide listing 1,132 entries to provide names, addresses, telephone, telex and cable addresses plus other vital data on the function, capacity and potential of each firm which mines industrial minerals; includes a separate section for locating the world producers of a particular mineral. [$50.00, post-free by sea-mail; Industrial Minerals]

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]

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CALENDAR OF EVENTS

CANADIAN CONSTRUCTION ASSOCIATION—60th Anniversary and Annual Convention; Bayshore Inn, Vancouver, British Columbia, *July 8-11.*

MIDDLE MANAGEMENT SKILLS—Workshop for Mining Managers, conducted by Socio-Economic-Technical Advisors; Bethany College, Bethany, West Virginia, *July 9-14* and *August 13-18.*

FUTURE SOURCES OF ORGANIC RAW MATERIALS—World Conference, sponsored by The International Union of Pure and Applied Chemistry, cosponsored by The Chemical Institute of Canada and The American Chemical Society; Sheraton Centre Hotel, Toronto, Ontario, *July 10-13.*

FUNDAMENTALS OF MINING MANPOWER TRAINING—Short Course of The Pennsylvania State University; University Park, Pennsylvania, *July 10-11.*

TRADEMARK LAW AND UNFAIR COMPETITION—Seminar of Practising Law Institute; New York Sheraton Hotel, New York City, *July 12-14.*

CRYSTAL GROWTH—4th American Conference, sponsored by the U.S. National Bureau of Standards and the American Association for Crystal Growth; NBS Laboratories, Gaithersburg, Maryland, *July 16-20.*

WATER RECYCLE SYSTEMS—Seminar of New York University; *July 17-19* in Chicago, Illinois; *September 11-13* in San Francisco, California.

NEW CONCEPTS OF OCCUPATIONAL MEDICINE UNDER OSHA—Course for physicians in industry; contact the Industrial Health Foundation for further information; Orono, Maine, *July 17-20.*

POWDER MIXING TECHNOLOGY—Intensive Course of the Center for Professional Advancement; Academic Center, East Brunswick, New Jersey, *July 18-21.*

BULK POWDER STORAGE AND HANDLING—Course of the Center for Professional Advancement; Academic Center, East Brunswick, New Jersey, *July 24-27.*

INTER/MICRO 78—Course sponsored by McCrone Research Institute; will emphasize new techniques in acoustic, infrared, interference microscopy, uses of laser Raman microprobe, techniques of modulation contrast and combinations of microscopes and computers; McCormick Inn, Chicago, Illinois, *July 24-27.*

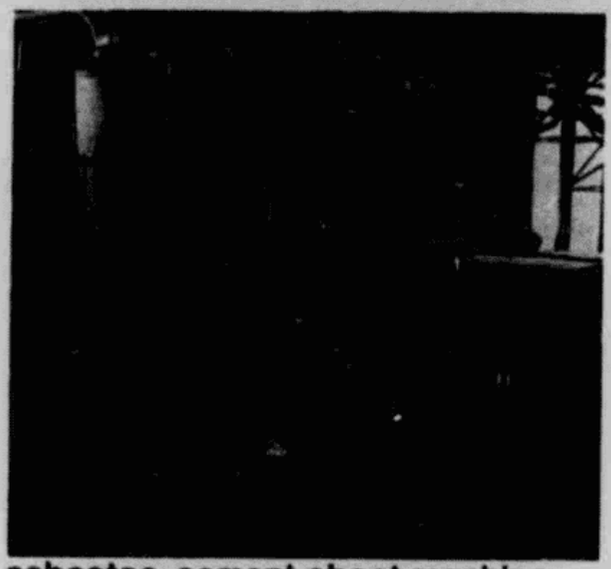
TRANSFER AND UTILIZATION OF PARTICULATE CONTROL TECHNOLOGY—Symposium sponsored by the U.S. Environmental Protection Agency; for further information, contact F. P. Vendetti, Denver Research Institute, University of Denver; Denver, Colorado, *July 24-28.*

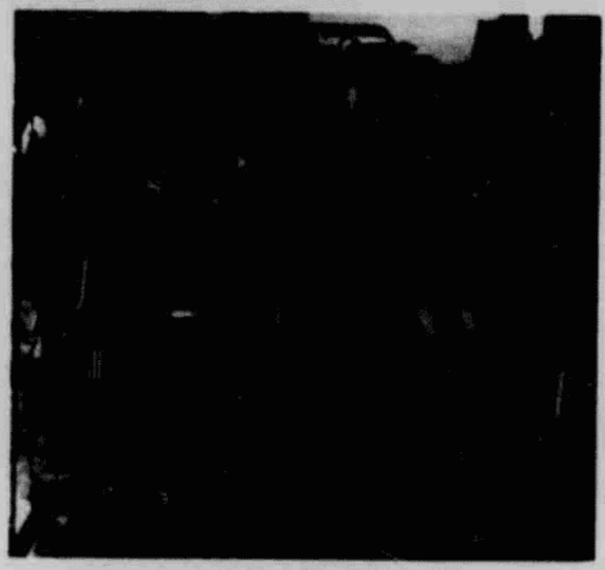
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APPLIED X-RAY SPECTROMETRY AND X-RAY POWDER DIFFRACTION—Course offered at the University of Denver, Denver, Colorado, *July 24-28.* Dates were selected to immediately precede the Denver Conference on Applications of X-Ray Analysis, *August 1-4.*

ANALYTICAL CHEMISTRY—20th Annual Rocky Mountain Conference of the Rocky Mountain Society for Applied Spectroscopy and the Rocky Mountain Chromatography Discussion Group; Denver Convention Complex, Denver, Colorado, *August 7-9.*

INTERNATIONAL ASSOCIATION OF THE GENESIS OF ORE DEPOSITS—Fifth Quadrennial Meeting of IAGOD; Snowbird Convention Center, Alta (near Salt Lake City), Utah; *August 7-25.*

SELECTING AND USING ADHESIVES FOR PRODUCT ASSEMBLY—Extension Course of the University of Wisconsin; Madison, Wisconsin, *August 10-11.*

INTERNATIONAL FINANCIAL MARKETS—Seminar for executives whose profits and operations are affected by balance of payments fluctuations and world financial markets; conducted by The Wharton School, University of Pennsylvania; *August 17-18* in San Francisco, California; *October 19-20* in Chicago, Illinois; *December 14-15* in Houston, Texas.

INNOVATION IN MEASUREMENT SCIENCE—A Symposium covering medical instrumentation, high precision measurement, petroleum industry, electronic innovations, chemical analysis, physical analysis and environmental monitoring; Hobart and William Smith Colleges, New Hampton, Massachusetts, *August 20-25.*

DURABILITY OF BUILDING MATERIALS AND COMPONENTS—First International Conference sponsored by the National Research Council of Canada, ASTM, NBS and RILEM; University of Ottawa, Ottawa, Ontario, *August 21-23.*

NOISE AND VIBRATION CONTROL—Fundamental program based on engineering concepts; Massachusetts Institute of Technology, Cambridge, Massachusetts, *August 21-25.*

REMOTE SENSING—5th Canadian Symposium sponsored by the Canadian Remote Sensing Society, Canada Centre for Remote Sensing, Environment Canada and Canadian Institute of Surveying; Empress Hotel, Victoria, British Columbia, *August 28-31.*

CONGRESS OF OCCUPATIONAL HEALTH—19th International Conference to be held in Dubrovnik, Yugoslavia, *September 1978;* contact the Institute for Medical Research and Occupational Health, Zagreb, Yugoslavia, for further information.

FLOMEKO 1978—Conference on Flow Measurement of Fluids, sponsored by IMEKO (International Measurement Confederation Technical Committee on Flow Measurement); Groningen, The Netherlands, *September 11-15.*

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