ASBESTOS



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We're helping industry use asbestos wisely with ads like this one.

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

The advertising program is designed to let industry management know that in an extensive range of finished products, such as asbestos/cement sheets and pipe, gasketing materials, asphalt-based coatings, latex and resin-bound papers, and friction materials, the asbestos is "locked in" by various binders to form environmentally safe materials. This ad lets them know that by following certain practices, asbestos can be handled and processed safely.

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

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Asbestos is not a problem when handled properly.

You can do something about it.

In thousands of finished products, asbestos serves an essential function that has not been duplicated on a cost performance basis. Like other naturally-occurring minerals, asbestos can be a potential health hazard when inhaled. However, with technological advances and established work practices, along with industry and Federal regulations, it can be safely processed, transported, and handled. In addition, there are virtually no hazards associated with the proper end use of products in which the asbestos fibers have been encapsulated or "locked-in" by environmentally safe binders. For this reason, we advocate the elimination of its use in friable products in which it cannot be safely bound. As the world's leading asbestos supplier, we are vitally concerned with its safe handling and application.

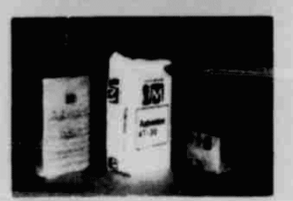
For more information, please write to Denis Kelleher, Asbestos Fiber Division, Johns-Manville, Ken-Caryl Ranch, Denver, Colorado 80217.



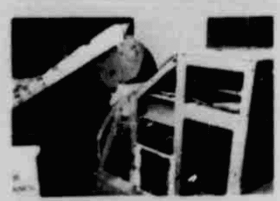
Use of personal protective equipment provides increased safety for a variety of work situations.



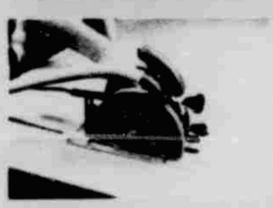
Floors and all work surfaces should be kept free of fiber accumulations by using industrial vacuum cleaners equipped with proper exhaust filters. Asbestos should be vacuumed, never swept.



Fiber handling technology has evolved a diverse range of special packaging to assure safer handling and shipping.



Totally enclosed, negative pressure automatic bag openers facilitate in-plant dust control.

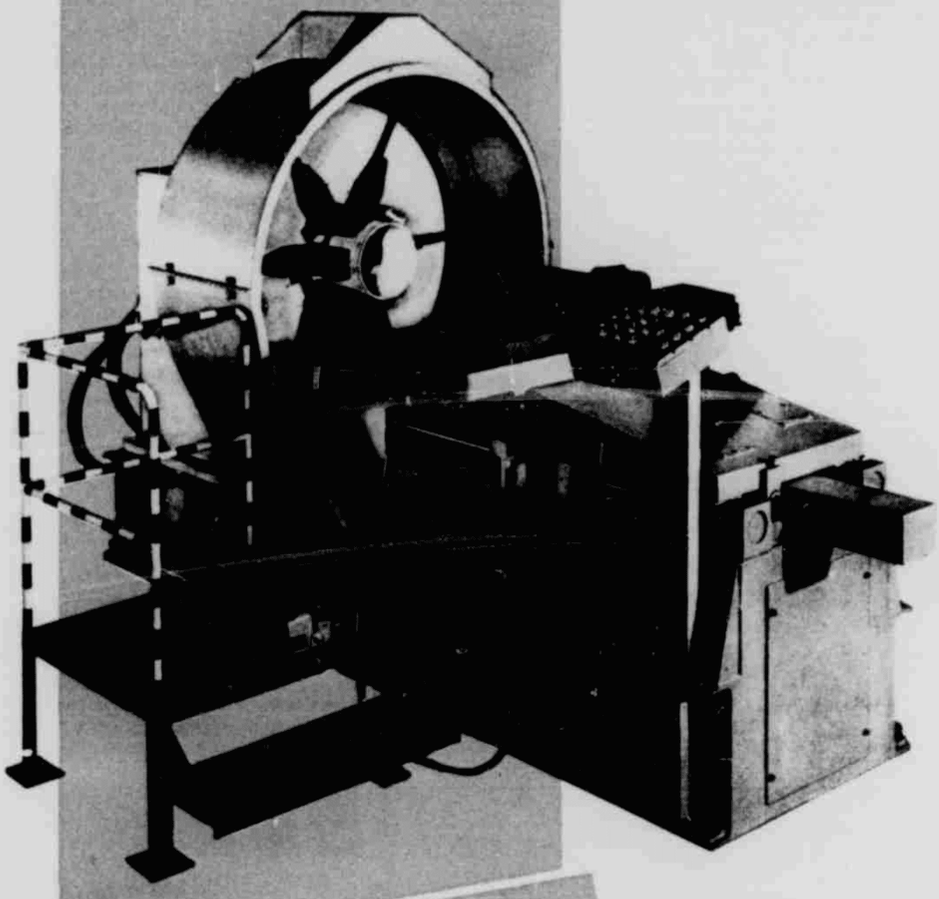


Fabrication tools require proper hooding and should be connected to a source of exhaust air that includes a fabric bag filter. When practical, wet cutting should be employed.

JM Johns-Manville

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ASBESTOS

VOLUME 62 FEBRUARY 1981 NUMBER 8

FOUNDED JULY 1919 AND PUBLISHED MONTHLY SINCE THAT DATE

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Calaveras Asbestos Selects Fiat-Allis 41-B Crawler Tractor

When Calaveras Asbestos Ltd. decided to increase production at its open pit mine at Copperopolis, in central California, the decision had to be made toward either a massive increase in the volume of drilling or blasting or a change in technique of overburden and ore excavation and mining. Calaveras Asbestos chose the latter method. After a period of testing the *Fiat-Allis 41-B crawler tractor as the prime machine to double the three-million-tons-per-year excavation pace, the company found that the machine not only eliminated any increase in drilling and blasting, but it also permitted a reduction in the amount of drilling and blasting that had formerly been necessary.

Mine Operations

Calaveras Asbestos is the largest asbestos producer in the United States. Most of its annual 40,000 tons of processed asbestos is consumed in asbestos-cement products, including a-c pipe. The open pit mine is situated on a 565-acre site in the Sierra Nevada foothills, southeast of Sacramento. It houses a serpentine deposit of high-quality Chrysotile asbestos which lies in pockets several hundred feet deep.

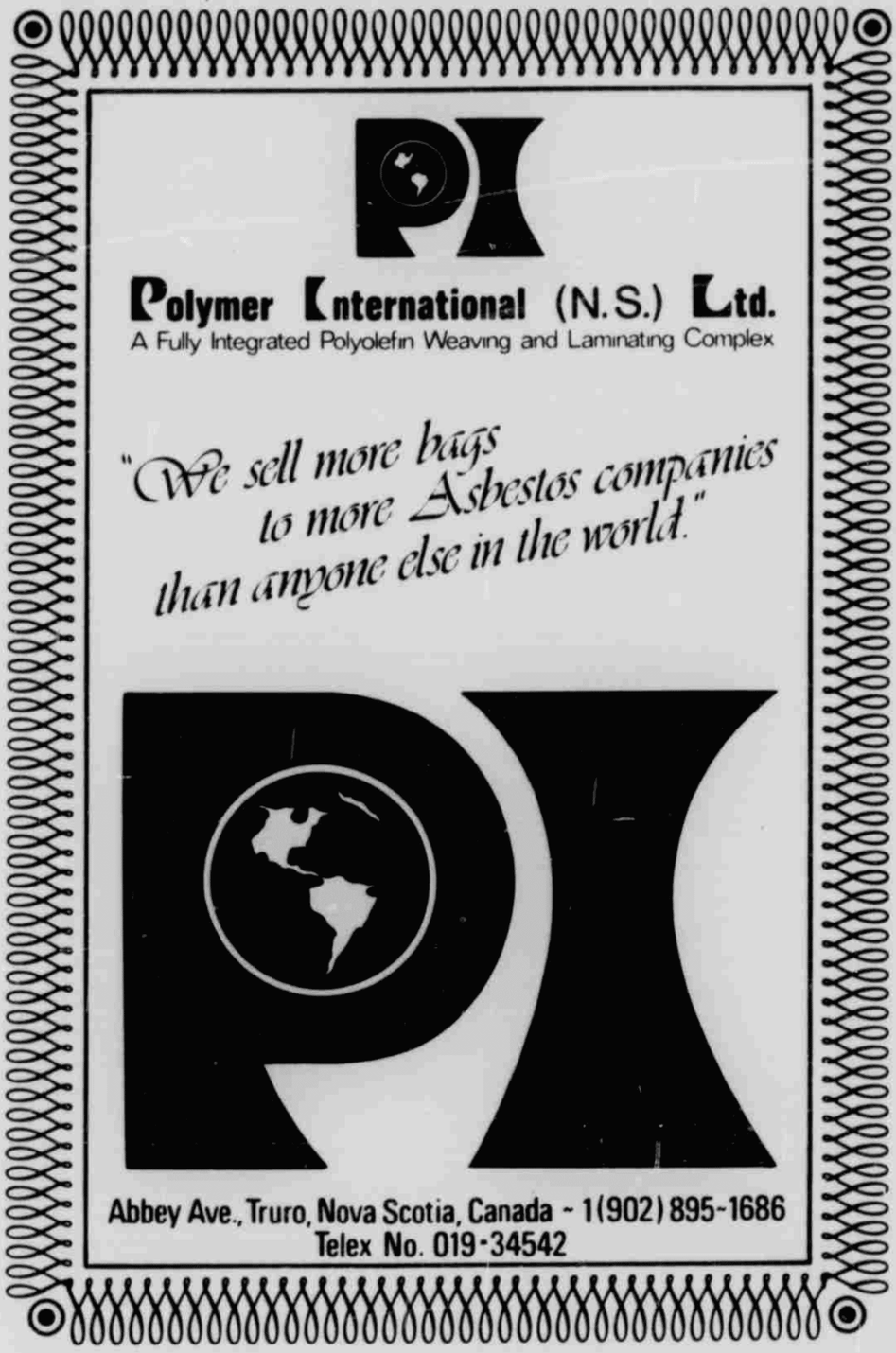
Stripping ratio of the property ranges from two tons to five tons of overburden to each ton of ore produced, depending on status of pit enlargement. Overall stripping ratio averages slightly over 2.2:1, with most of the stripping demanding heavy ripping.

Overburden density is anywhere from 3,000 fps to 10,000 fps and the orebody runs over 15,000 fps. Overburden weighs nearly 4,000 pounds per bank yard.

Long-range, well-engineered production and pit development has permitted Calaveras Asbestos to make the most profitable utilization of the Fiat-Allis 41-B and other mining equipment. Ripping and dozing passes have been kept short—usually less than 100 feet. Stripping has been done on universally favorable grades of 10% to 20%.

*Manufactured by Fiat-Allis Construction Machinery, Inc., Deerfield, Illinois

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Big Tractor Performance

After 1200 hours of operation, the company is reportedly on target for six-million tons of stripping, and the 41B is running with an accumulation of 16 hours of downtime, exceeding 98% availability. This high level of production—1,500 tons—is achieved using only double-shank rippers and the standard 17-foot, semi-U blade. Single shank ripping is employed only occasionally, usually in the ore pockets where the parent material is monolithic and very hard.

The ability to rip, rather than blast, most of the overburden has contributed to other pit efficiencies for Calaveras Asbestos. Ripped and dozed material is smaller and more fractured, easing the work of the 11-yard-capacity, front-end loaders which work below the Fiat-Allis bulldozer.

Reduction in overburden blasting has reduced the frequency of interruptions in overburden removal and mining. It has resulted in a more easily-maintained pit since ripping does not cause bench instability. Haul road, ramp excavation and rough grading consume only half of the machine and operator time which would have been required had conventional 'dozers been used.

* * *

"Mining Magazine" reports that other equipment in use at the Calaveras Asbestos operation includes two International H-400C, 11-yard primary pit loaders, plus a smaller loader used as a back-up; three Ingersoll-Rand hammer drills; six 50-ton and three 35-ton Wabco trucks; a 48-foot by 60-foot Allis-Chalmers primary jaw crusher; a Symons 5½-foot, short-head secondary crusher; and a Hazemag APK-60 tertiary impact crusher, working in closed circuit with Overstrom 5-foot by 12-foot triple-deck screens. The main, seven-story modern mill building, located some 1,700 feet from the beneficiation plant, operates 24 hours a day. The company is currently widening the mine about 300 feet on three sides and is then benching down to the lower levels. As the expanded pit opens, the ratio is expected to decrease to below a one-to-one stripping ratio.

The Cover: High production is achieved by the Fiat-Allis 41-B crawler tractor, equipped with double shank rippers and a standard 17-foot, semi-U blade.

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Processing & Handling

Failsafe Handwheel

Andco Actuator Products, Inc., Buffalo, New York, announced a failsafe handwheel mechanism for all Series 7000 Posi-Tork actuators that provides manual operation of the actuator during a power failure, without risk of injury. Other options for use with the electro-mechanical linear units are a dust-ignition proof model; electric brake to prevent inertial coast; adjustable gear-driven position limit switches; adjustable thrust limit switches; and standard gear-driven potentiometer.

Wear Resistant Linings

Durafrax wear and corrosion resistant linings, made from an 87% aluminum oxide composition, are described in Bulletin A-1850 published by *The Carborundum Company*, Niagara Falls, New York, a subsidiary of *Kennecott Corporation*. The literature defines the physical properties of Durafrax alumina, its resistance to corrosion by various acids and its relative abrasion resistance compared with six other lining materials.

Guiding & Training Flat Belts

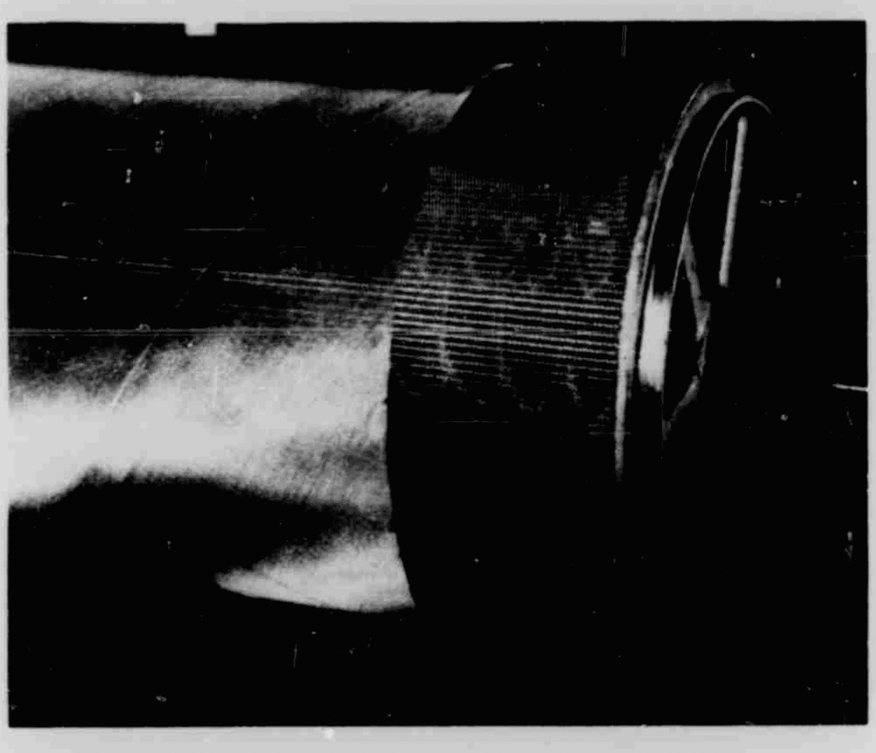
"A Practical Method for Training Flat Belts on the Return Side of a Conveyor System" is a 12-page booklet of text and drawings issued by *Cleveland Oak Belting Company*, Cleveland, Ohio, to describe how to minimize or solve many of the problems of guiding and training the belts, utilizing three patented products designed and manufactured by Cleve-Oak. Also illustrated are the standard conveyor system, comparisons of various self-aligning return idlers; how to correct faulty alignment; and proper installation.

Automatic Bag Placer

W. G. Durant Corporation, Placentia, California, reports that its Model 500 bag placer picks up bags and spouts them automatically at a rate of up to 20 bags per minute. The mechanism secures the bag by both vacuum and mechanical means, opens the valve and spouts it. Loading may be achieved safely at floor level while the machine is in operation.

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Belt Conveyor Scale

A new, rugged belt conveyor scale for automatic, continuous weighing was recently introduced by *Emery Pfister Company*, New Canaan, Connecticut, a subsidiary of *The A. H. Emery Company*. Just a few of the several design features described by the manufacturer are: low weighbridge displacement (0.004") at maximum rated capacity which minimizes the effects of belt tension and idler misalignment; a parallel guidance system to accurately translate and transmit the low displacement of the weighbridge to the precision strain gauge load cell; standard weighbridge design to fit any size or capacity of conveyor; and elimination of dust buildup on exposed level systems.

Butt-Rivet Belt Fasteners

A new brochure on its line of BR butt-rivet mechanical fasteners for high-tension conveyor belts has been released by *Flexible Steel Lacing Company*, Downers Grove, Illinois. The brochure states that the fasteners combine the holding ability of rivet fasteners with the sift-free durability of a solid plate fastener and provide multiple-point holding power for long-lasting splices in high-tension belting. The fasteners are quickly installed with the patented self-setting rivet system. A multiple rivet driver allows for ease of installation, a new belt skiver/cutter permits simple countersinking and a new repair tool makes possible quick replacement of individual plates, if needed.

Venturi Scrubber Bulletin

Interel Corporation, Englewood, Colorado, published a bulletin which describes a new venturi scrubber that offers the user near zero waste water generation. The scrubber uses internal circulation of scrubbing liquid without the need for external settling tank, circulation pump or spray nozzles. Collected particulate matter is discharged either as sludge or as high solids slurry. The literature discusses principle of design, pressure drop and energy requirements, scrubbing efficiency, water consumption and liquid-to-gas ratio, demister performance, variable venturi operation and available scrubber configurations, including pilot unit.

Rotating Components for Industry

A 36-page catalog has been offered by *Servo-Tek Products Company*, Hawthorne, New Jersey, on its line of instrument-type

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speed and process control components. Specific products detailed are tachometer generators; DC motors; speed drive and indicating systems; digital comparators and control systems.

Multi-Cage Mills

Catalog 608 describes many features and user benefits of the "G" Series multi-cage mills from *Stedman Machine Company, Inc.* Aurora, Indiana, a *Wean United* company. An electrically-operated, quick-opening retractor provides rapid access to crushing components for inspection or change-out. Inspection requires about five minutes and complete change-out of wear components takes as little as one hour, or less. The all-new cage configuration features expanded vertical clearance between cage rows, relieves attrition grinding and provides for controlled stages of true impact crushing action.

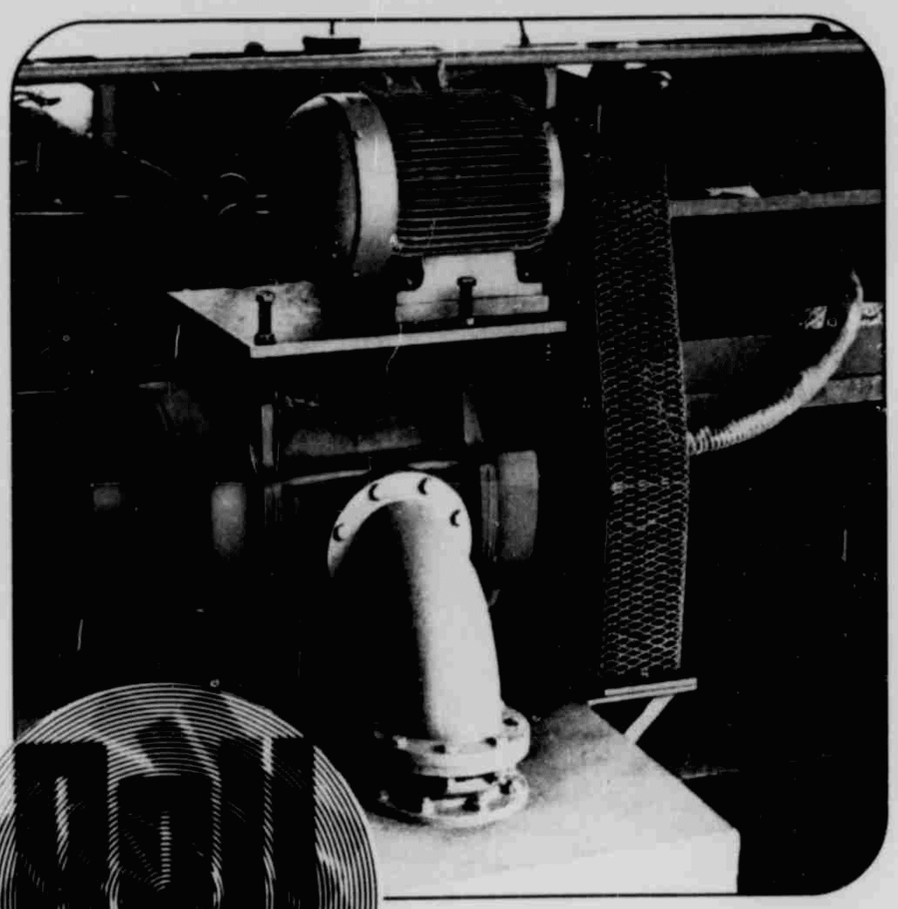
Mechanical Sampling Systems

Tema Inc., Cincinnati, Ohio, announced the availability of Tema-Siebtechnik mechanical sampling equipment and systems, designed to take samples automatically for evaluation of coal and coke, minerals, ores and concentrates either as solids or in slurry form. The equipment is suited for installation on top of existing belt conveyors and as a replacement for manual stop belt sampling. A typical system consists of a rotating hammer sampler collecting primary increments from a moving conveyor which is crushed down to minus ¼ " in a low-speed, single-roll crusher. The primary increments are then continuously divided with a rotary disc divider with integrated blending stage. A sample collection and storage station retains the final sample.

Tensile Tester Weighing System

The Model XDH-11 pendulum weighing system from *TTI (Tensile Testers Inc.),* Providence, Rhode Island, a division of *Edwin H. Benz Company, Inc.*, provides accurate testing of tensile strength and elongation of fabric, skein yarn, leather, wire, sheet metal, paper, plastics and similar materials. Burst, compression and deflection testing can also be done by interchanging proper grips and accessories. An air supply (shop air) of 100 psi at 2 cfm (¼" pipe) is required for operation of the pneumatic-hydraulic basic drive system.

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Bell Vacuum Pumps. 75 Asbestos Cement Plants in 51 Countries use Bell Waterring Pumps

Bell pumps
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Dodge Construction Contracts

DECEMBER/YEAR 1980—A total of $12.5-billion of new construction work of all kinds was started in the final month of 1980, 21% more than in the same month a year earlier. Due to a mid-1980 slump in contracting, however, the 1980 full-year total of $147.2-billion fell 13% below the record value for 1979. According to George A. Christie, Vice President and Chief Economist for the F. W. Dodge Division of McGraw-Hill Information Systems Company, "1980's fourth quarter was easily the best of the year for the construction industry as housing staged a partial recovery, and contracting for nonresidential building soared to an all-time high."

December contracts for *nonresidential* building totaled $4.7-billion, an outstanding 37% over the year-ago total. The biggest advances were found in most categories of commercial and industrial building which, as a group, rose 46%. For the full year, nonresidential building contract value held to a 4% annual increase, as 1980 contracting hit a snag during the recession-blighted second quarter. Nonetheless, the past year's total of $52.3-billion of new nonresidential building starts was a new high. *Residential* building, in its second consecutive year of decline, fell 15% in 1980 to a 12-month total of $63.2-billion. The housing market's worst year since 1975 ended on an upbeat, however, as December's contract value of $5.6-billion topped the year-earlier month's total by 33% despite a generally higher level of mortgage rates. Most of the residential building strength in the third quarter was in multi-family units. Contracting for public works, utilities and other *nonbuilding* construction, at $2.2-billion in December, was down 18% from its year-ago total. Although the final month of 1980 brought a pick-up in contracting for highways and other public works projects, electric utility contracting was at a virtual standstill. Nonbuilding construction contracts totaled $31.6-billion in 1980, a decline of 28% from the 1979 value.

Adjustment for 11% to 12% inflation in general construction activity during 1980 gives an indication of the extent of the "real" decline from 1979 volume in the three broad construction sectors: nonresidential building, down 5%; residential building, down 25%; nonbuilding construction, down 35%—all construction, down 20%. The seasonally-adjusted Dodge Index (1972 = 100) reached 167 in October, 210 in November and 193 in December (183 in December 1979).

—Next Issue—
1980 International Asbestos Review of Companies & Products

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Asbestos Exposure Issues

Jury Agrees With Defendants

After seven weeks of testimony and three days of deliberation, a former factory worker lost his bid in the U.S. District Court, Philadelphia, Pennsylvania, to collect $500,000 in damages from eleven asbestos suppliers. Mr. James H. Barlieb had charged the defendants were responsible for his lung disorder because they did not warn him that exposure to asbestos was a health hazard. The jury found, however, the plaintiff did not have asbestosis, as claimed, but that his ailment was in actuality emphysema, caused by 35 years of smoking cigarettes.

Parents Sue School District

The parents of five elementary school children filed a $30-million lawsuit in federal court against the school district of Philadelphia, claiming their children were endangered by exposure to asbestos flaking from school walls and ceilings. Included in the suit is a request that the school district establish an interest-bearing, $20-million trust fund to pay for treatment over the next 45 years of anyone contaminated by asbestos in the city's public schools.

EPA Reporting/Recordkeeping Proposal

The U.S. Environmental Protection Agency (EPA) has issued a proposal which, if adopted, would require certain asbestos manufacturers, importers and processors to report quantities of asbestos used in various processes, employee exposure and monitoring data and waste disposal and pollution control information. Reported data will be considered by EPA in deciding if and how to regulate asbestos under the Toxic Substances Control Act. Any firm which mines asbestos, imports or processes the fiber or an asbestos-containing product should consider submitting comments—deadline: March 27, 1981. [Federal Register of January 26, 1981, pages 8199-8249]

CPSC Requires Response

A General Order has been issued by the U.S. Consumer Product Safety Commission which requires manufacturers and importers of specified categories of consumer products to furnish information concerning the use of asbestos in the products, the form in which asbestos is present, purpose served by the mineral, mar-

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keting and use patterns of the product and information on any testing of the products for asbestos fiber emission. Data on the identity of possible substitutes for the asbestos is also sought. CPSC believes that such data will assist it in determining if any regulatory action is warranted to protect consumers from risk of injury associated with asbestos in consumer products. Subjected products are: broilers, deep fryers, ovens and ranges, popcorn poppers, slow cookers, clothes washers and dryers, dishwashers; refrigerators, safes, kilns, safety boxes, filing cabinets, incinerators and electric barbecue fire starters, frying pans, grills, mixers, blankets and curling irons. [12/22/80 FR, pages 84384-88]

CPSC Chairman Resigns

Susan B. King has resigned as CPSC Chairperson and Commissioner effective January 31, 1981. Ms. King has accepted a fellowship at the Institute of Politics, John F. Kennedy School of Government, Harvard University.

Reagan Selects New OSHA Head

President Reagan reported he will nominate Thorne Auchter, a 35-year-old building contractor, to oversee the U.S. Occupational Safety and Health Administration (OSHA). Despite Mr. Auchter's view that OSHA symbolizes government over-regulation, some business advocates fear his lack of government experience and professional safety training may hinder his effectiveness and credibility. Mr. Auchter has indicated his intent to curb regulations which are not based on substance.

Ingestion Study Progress

A status report as of January 22, 1981, has been issued by the National Toxicology Program on the series of studies underway on the biological effects of ingested asbestos. The studies are part of a commitment of the National Institute of Environmental Health Sciences and are 10% funded by EPA. Following completion of the lifetime exposure phase of experiments at IIT Research Institute, Chicago, Illinois, "there was no indication of major differences in the mortality rate between the hamsters receiving the asbestos diet or the control diet." The contractor also reported that a preliminary analysis of the hamster data indicates that no carcinogenic or cocarcinogenic effect was observed from histopathologic examination of tissues from female hamsters. Similar findings were reported from rat studies underway at Hazleton Laboratories, Vienna, Virginia.

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

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Imports Into the United States

From: U.S. Bureau of the Census

			OCTOBER 1980
UNMANUFACTURED ASBESTOS:			
Chrysotile Spinning Fibers, Canada	s.tons	687	$ 538,913
Other Chrysotile, Brazil	s.tons	22	4,024
Canada	s.tons	29,870	6,377,588
Zimbabwe	s.tons	139	117,724
Other Crudes & Fibers, Canada	s.tons	1,322	369,752
United Kingdom	s.tons	..	1,800
Zimbabwe	s.tons	20	22,542
		32,060	$ 7,432,343
MANUFACTURED ASBESTOS PRODUCTS:			
Asbestos yarn, cloth, tape, etc.	Lb	763,992	$ 1,255,305
A-C pipes, tubes & fittings	Lb	1,261,462	178,213
Other asbestos-cement articles	Lb	5,122,635	1,140,610
Other asbestos articles		..	467,827
			$ 3,041,955

			JANUARY-OCTOBER 1980
UNMANUFACTURED ASBESTOS:			
Amosite, South Africa	s.tons	307	$ 263,262
Crocidolite, Canada	s.tons	57	11,672
South Africa	s.tons	8,278	5,177,960
Chrysotile Crudes, Zimbabwe	s.tons	22	29,592
Chrysotile Spinning Fibers, Canada	s.tons	5,356	4,038,764
South Africa	s.tons	298	253,455
Sweden	s.tons	23	2,520
Zimbabwe	s.tons	542	515,325
Other Chrysotile, Brazil	s.tons	64	11,959
Canada	s.tons	275,379	62,669,550
Germany, Fed. Rep.	s.tons	21	2,368
Mexico	s.tons	30	1,285
South Africa	s.tons	758	432,262
Sweden	s.tons	46	5,040
Yemen	s.tons	46	12,454
Zimbabwe	s.tons	159	138,427
Other Crudes & Fibers, Canada	s.tons	10,816	2,924,573
Germany, Fed. Rep.	s.tons	22	28,607
India	s.tons	46	13,890
Japan	s.tons	29	9,212
Mexico	s.tons	2	3,500
South Africa	s.tons	1,452	913,265
United Kingdom	s.tons	1	2,512
Zimbabwe	s.tons	271	279,754
		304,025	$77,741,208
MANUFACTURED ASBESTOS PRODUCTS:			
Asbestos yarn, cloth, tape, etc.	Lb	6,414,131	$10,675,499
A-C pipes, tubes & fittings	Lb	8,411,499	1,239,912

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U.S. IMPORTS—CONTINUED

Other asbestos-cement articles	Lb	54,572,290	10,271,524
Other asbestos articles			5,077,712
			$27,264,647

January-October 1979: U.S. imports of unmanufactured asbestos totaled 481,096 short tons, valued at $116,594,211; imports of manufactured asbestos products were valued at $26,194,259.

AUSTRALIAN IMPORTS & EXPORTS—For the *Three Months Ended September 1980,* Australia *imported* 7,845 metric tonnes of asbestos, valued at A$4,518,778, up 15.4% in quantity and 25.8% in value over the 6,637 tonnes, valued at $3,351,665, for the same period a year earlier. Breakdown by variety of asbestos for the latest quarter (with comparative year-prior figures in parentheses): Chrysotile—4,980 tonnes, valued at $2,966,987 (5,250 tonnes, down 5.4%; $2,803,123, up 5.5%); Amosite—2,330 tonnes, valued at $1,239,612 (1,015 tonnes, up 56.4%; $479,541, up 61.3%); Other—535 tonnes, valued at $312,179 (372 tonnes, up 30.5%; $69,001, up 77.9%). . . . *Exports* of all types of asbestos for the latest three months totaled 15,042 tonnes, valued at $5,894,746, against 12,550 tonnes (up 16.6%), valued at $3,465,797 (up 41.2%), for the like period to September 1979. [Australian Bureau of Statistics]

CANADIAN FIBER SHIPMENTS—Primary Canadian Producers' shipments of asbestos (including tonnage for own use and concentrate shipped from Asbestos Hill) amounted to 114,584 metric tonnes in *October 1980* compared with 137,565 tonnes in the tenth month a year earlier. Shipments in *November 1980* totaled 110,425 tonnes vs. 127,411 tonnes in the eleventh month of 1979. Cumulative total for *January-November 1980* was 1,182,938 tonnes: 1,030,530 tonnes from plants in Quebec and 152,408 tonnes from plants in Newfoundland and British Columbia. Total shipments for the first eleven months of 1979 were 1,356,628 tonnes: 1,205,723 tonnes from Quebec plants and 150,905 tonnes from the remaining operations. [Canadian Department of Energy, Mines & Resources]

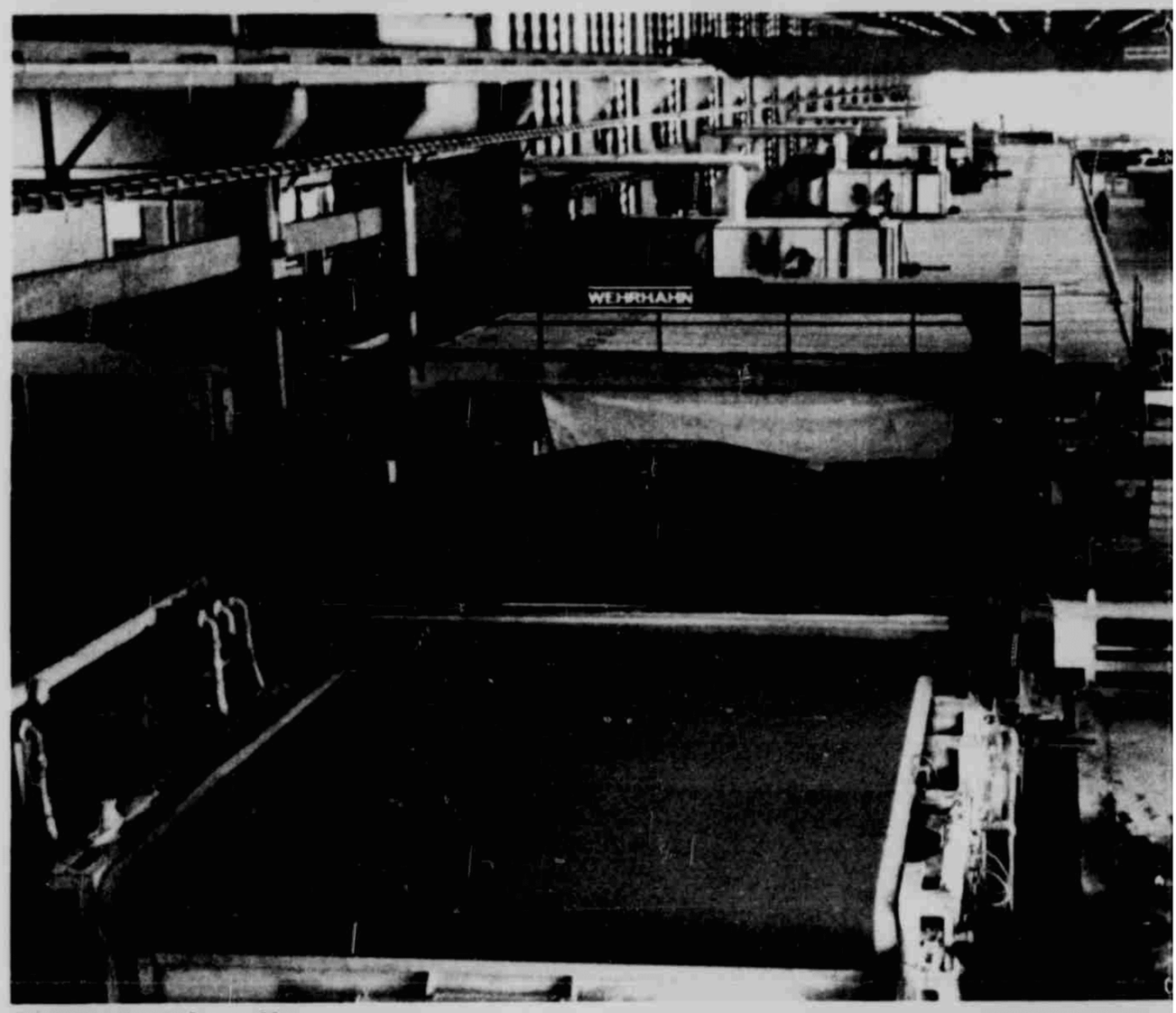
SOUTH AFRICAN PRODUCTION & EXPORTS—Asbestos *production* for the *Quarter ended March 1980* totaled 67,025 metric tonnes against 54,200 tonnes in the same three-month period a year earlier. Breakdown for the latest quarter is: 30,904 tonnes of Cape Crodicolite (24,434 tonnes a year earlier), 24,380 tonnes of Chrysotile (20,709 tonnes) and 11,741 tonnes of Amosite (9,057 tonnes). . . . *Exports* from *January-March 1980* were valued at R19,871,361 compared with R21,652,709 in the comparable 1979 quarter. By variety of asbestos, the values for the latest period are: Cape Crocidolite—R11,219,063 (R14,436,456 in 1979), Amosite—R4,387,246 (R3,449,696), and Chrysotile—R4,265,052 (R3,766,577). [South African Department of Mines]

—New Advertisers In This Issue—

WALTER A. COOPER ASSOCIATES, INC., Littleton, Colorado (page 37) (Also January 1981 issue, page 41)

POLYMER INTERNATIONAL (N.S.) LTD., Truro, Nova Scotia (page 5)

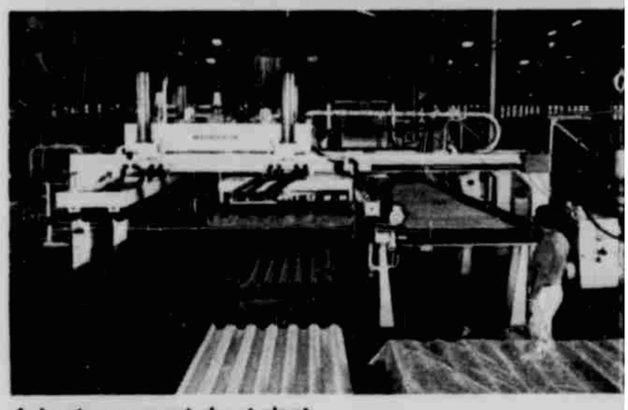
WEHRHA



Asbestos-cement pipe machine



Press section and mandrel retention system

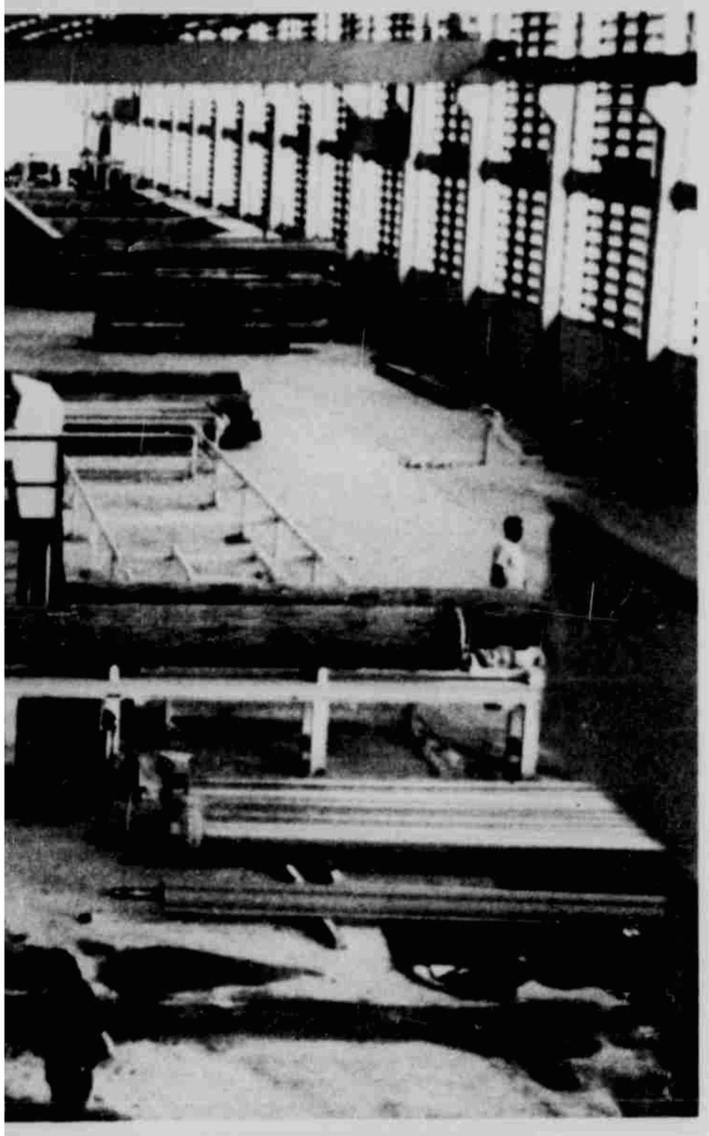


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... the international professionals

AHN

Complete plants for the production of asbestos cement pipes and asbestos cement sheets



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

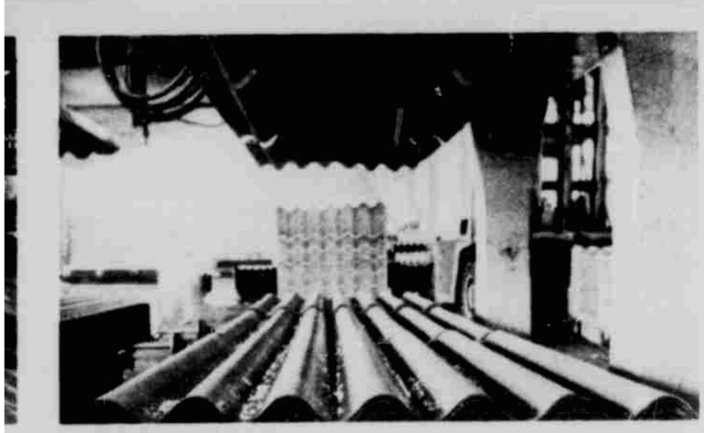
WEHRHAHN asbestos-cement specialists are at work around the world, engineering, building, and maintaining asbestos-cement plants. This is how WEHRHAHN equipment got their long spreading reputation for operational readiness and high value attention.

Whatever the buyer prefers will depend largely on what he already has and what will fit into his requirements.

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for asbestos-cement machinery!

Exports From the United States

From: U.S. Bureau of the Census

			OCTOBER 1980
UNMANUFACTURED ASBESTOS:			
Asbestos crudes, fibers & stucco	s.tons	4,476	$ 2,052,468
Asbestos sand & refuse	s.tons	892	234,695
		5,368	$ 2,287,163
MANUFACTURED ASBESTOS PRODUCTS:			
Asbestos yarn, cloth, tape, etc.	Lb	620,727	$ 722,596
Asbestos-Cement shingles & clapboard	Lb	557,840	213,833
Other asbestos-cement articles	Lb	4,395,174	2,475,606
Asbestos gaskets	Lb	125,365	522,207
Asbestos packings & seals	Lb	364,706	1,576,763
Asbestos Insulation			418,112
Brake linings & disc brake pads			4,516,084
Clutch facings & linings			433,364
Other asbestos articles			2,442,288
			$ 13,320,853

			JANUARY-OCTOBER 1980
UNMANUFACTURED ASBESTOS:			
Asbestos crudes, fibers & stucco	s.tons	33,781	$ 14,612,714
Asbestos sand & refuse	s.tons	11,055	3,231,112
		44,836	$ 17,843,826
MANUFACTURED ASBESTOS PRODUCTS:			
Asbestos yarn, cloth, tape, etc.	Lb	4,997,745	$ 7,210,550
Asbestos-Cement shingles & clapboard	Lb	8,618,829	2,243,825
Other asbestos-cement articles	Lb	28,650,214	11,236,631
Asbestos gaskets	Lb	875,162	3,219,950
Asbestos packings & seals	Lb	3,870,869	13,167,816
Asbestos insulation			5,520,662
Brake linings & disc brake pads			43,744,379
Clutch facings & linings			8,314,320
Other asbestos articles			21,960,393
			$116,618,526

January-October 1979: U.S. exports of unmanufactured asbestos reached 37,358 short tons, valued at $13,296,608; exports of manufactured asbestos products were valued at $116,424,477.

ANTHOPHYLLITE ASBESTOS

Grades 5, 6 and 7

We have regular supplies to all container ports
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D-2000 Hamburg 63 / GERMANY
Telex: 02-11785 **Phone: 040/5384342**

Exports From Canada

From: Statistics Canada

OCTOBER 1980

Short Tons

UNMANUFACTURED ASBESTOS:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	778	82,644	9,063
Eastern Europe	..	..	5,175	..
Middle East	..	..	90	16
Africa	..	..	4,638	4,555
Asia	..	633	17,706	12,803
Oceania	..	..	2,716	112
So. & Cen. America & Antilles	..	127	7,017	2,540
United States	—	743	4,722	27,849
	..	2,281	124,708	56,938

The total amount of unmanufactured asbestos exported in *October 1980* was 183,927 short tons (166,855 metric tonnes), valued at C$96,337,000.

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos cloth, dryer felts & sheets	C$ 352,000
Asbestos brake linings & facings	329,000
Asbestos-Cement building materials	808,000
Other basic asbestos products	1,321,000
	C$ 2,810,000

JANUARY-OCTOBER 1980

UNMANUFACTURED ASBESTOS:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	4,839	264,443	114,729
Eastern Europe	..	1,626	16,233	1,496
Middle East	..	100	9,730	358
Africa	..	21	28,944	15,586
Asia	.	3,155	112,613	108,168
Oceania	..	7	17,438	1,021
So. & Cen. America & Antilles	..	1,095	68,782	40,710
United States	..	3,608	55,569	246,289
	..	14,451	573,752	528,357

The total amount of unmanufactured asbestos exported in *January-October 1980* was 1,116,560 short tons (1,012,925 metric tonnes), valued at C$518,405,000.

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos cloth, dryer felts & sheets	C$ 3,783,000
Asbestos brake linings & facings	2,659,000
Asbestos-Cement building materials	15,163,000
Other basic asbestos products	11,034,000
	C$32,639,000

January-October 1979: Canadian exports of unmanufactured asbestos totaled 1,334,061 short tons (1,210,232 metric tonnes), valued at C$534,043,000; exports of manufactured asbestos products were valued at C$29,059,000.

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Current Asbestos Prices

QUOTED FROM COMPANY PRICE LISTS

QUEBEC

PER TON OF 2000 LBS., F.O.B. MINE

AS OF JANUARY 1, 1981

CANADIAN DOLLARS

Grades 3Z to 3F spinning fiber	$ 1202 to $ 1995
Grades 4T to 4A asbestos cement fiber	850 1256
Grades 5Z to 5D paper fiber	497 687
Grade 6D paper and shingle fiber	408 426
Grades 7TS to 7D shorts	125 253
Paperbestos No. 1 to 5 H.D. Blocks	237 782

CASSIAR RESOURCES

PER TON OF 2000 LBS., F.O.B. NORTH VANCOUVER, B.C.

AS OF JANUARY 1, 1981

CANADIAN DOLLARS

AAA	nonferrous spinning fiber; Canadian Group 3	$ 2000
AA	nonferrous spinning fiber; Canadian Group 3	1600
A	nonferrous spinning fiber; Canadian Group 3	1265
AC	nonferrous spinning fiber; Canadian Group 3	1155
AK	asbestos cement fiber; Canadian Group 4	1075
AS	asbestos cement fiber; Canadian Group 4	1000
AX	asbestos cement fiber; Canadian Group 4	930
AY	asbestos cement fiber; Canadian Group 5	660
AZ	asbestos cement fiber; Canadian Group 6	430

Specialty Grades AK100, AS100, AX100 and AY120 are increased an additional $25.00 per ton above list price of base grade.

VERMONT

PER TON OF 2000 LBS.,F.O.B. MORRISVILLE, VERMONT

AS OF JANUARY 1, 1981

U.S. DOLLARS

Grade 3Z fiber	$ 1135
Grades 4T to 4D fiber	$ 754 to 833
Grades 5R to 5K fiber	495 to 584
Grade 6D waste	363
Grades 7R to 7D shorts	113 to 215
Hooker No. 1	1520
Hooker No. 2	880

CALIDRIA ASBESTOS

PER TON OF 2000 LBS. F.O.B. KING CITY, CALIFORNIA

AS OF JANUARY 1, 1981

U.S. DOLLARS

SG-103 pellets in bags; vinyl-asbestos floor tile	$ 136
SG-104 pellets in bulk; vinyl-asbestos floor tile	116
SG-130 open fiber in bags; general	194
SG-200 pellets in bags; rubber	176
SG-210 open fiber in bags; general	250
HPP pellets in bags; rubber reinforcement	224

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HPO open fiber in bags; asphalt	250
RG-110 open fiber in bags; roofing	270
RG-144 open fiber in bags; resin viscosity control	700
RG-244 open fiber in bags; resin viscosity control	3300

ARIZONA

AS OF JANUARY 1, 1981

PER TON OF 2000 LBS., F.O.B. GLOBE, ARIZONA

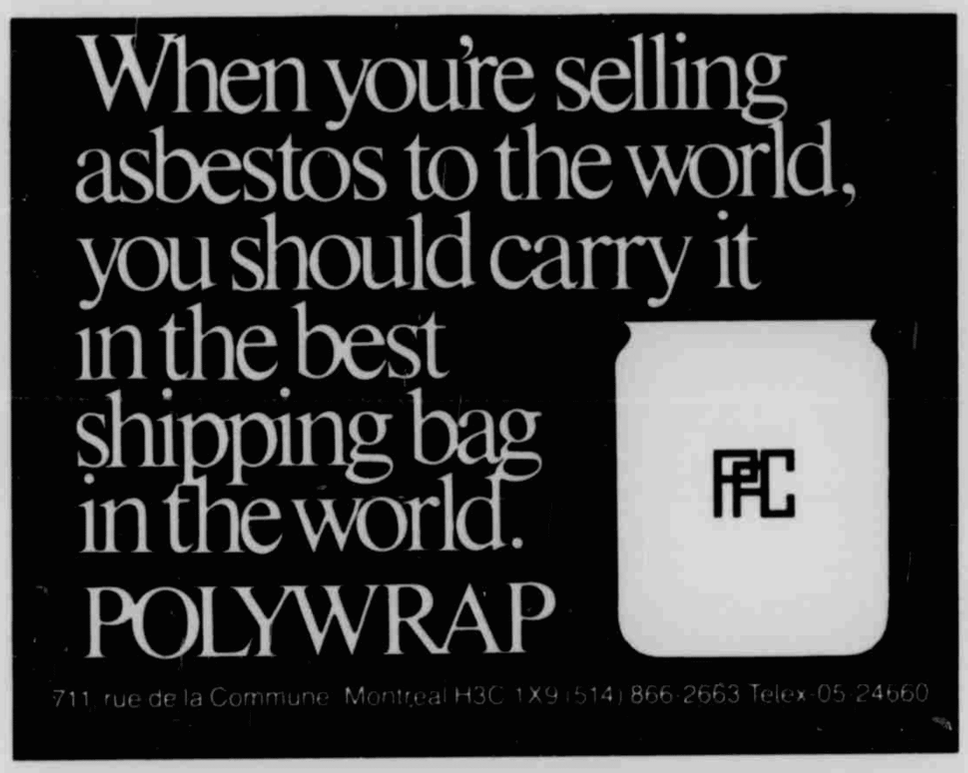
	U.S. DOLLARS
No. 1 crude (soft)	$ 3000
AAA	2000
Grade 3Z nonferrous filtering-plastic	$ 1350 to 1400
Grade 4T nonferrous filtering-plastic	700 1350
Group 7 white shorts	50 200

BRAZIL

AS OF SEPTEMBER 1980

PER TON OF 2000 LBS., F.O.B. MINE

	BRAZILIAN CRUZEIRO $
Grades 4Z to 4K asbestos cement fiber	$20504 to $23011
Grades 5R to 5D asbestos cement fiber	9216 to 17272
Grade 7TF asbestos cement shorts	3641
Grade 8S shorts	1722



Company Annual Reports, 1980

United Asbestos Inc.

For the year ended March 31, 1980, *United Asbestos Inc.*, Montreal, Quebec, reported a net income of $9,270,871 compared with $6,762,704 a year earlier. Earnings per share reached $1.31 in 1980 vs. 96¢ in 1979. The highlight of the latest year was the successful refinancing of United Asbestos' indebtedness and the recovery of control of its assets.

Black Lake—The joint venture with *Lac d'Amiante du Quebec Ltee (LAQ)* continued to prosper and the 1980 results both in terms of cash flow and earnings per share were at a record high. The long-term, on-property development program at Black Lake realized a net gain of 1,772,000 tons of ore in 1979 and for 1980 operations resulted in shipments of 162,685 tons and production of 160,057 tons compared with 164,129 tons and 162,010 tons, respectively, for the previous year. Gross value of shipments was $86.3-million against $74.9-million in the year to March 31, 1979. LAQ is entering new markets and pursuing a vigorous program to increase sales of cement-grade fibers as an assurance against volume losses due to the current downturn in economic activity in the United States and the possible adverse effects of new environmental and health regulations.

Midlothian—Since January 31, 1980, when the property at Midlothian, Ontario, was returned to United Asbestos, the company has been conducting engineering studies on start-up costs. United intends to move ahead, but with deliberation and care, believing that "over time, asbestos, with its many useful characteristics, will maintain its place in the service of the community."

Jim Walter Corporation

Jim Walter Corporation, Tampa, Florida, is one of the 200 largest industrial companies in the United States, offering a diversified line of products and related services for six major markets—residential construction, renovation/remodeling, nonresidential construction, industrial, water and waste water transmission and homebuilding. The company operated in one of the most difficult economic periods in its history during the fiscal year ended August 31, 1980. Total sales and revenues reached $1,984-billion, compared with $1,948-billion a year earlier, benefiting from improved pricing and higher sales from coal mining and homebuilding operations. Increased sales notwithstanding, pricing levels proved insufficient to offset higher costs for raw materials, labor and energy. As a result Jim Walter was held to a lower income performance for the first time in ten years.

Mineral & Fiber Products—This Group accounted for 33% of total corporate sales and revenues in 1980 and income contribution represented 18% of total operating income. Strong demand experienced by the *Roofing Products Division* weakened in the second half of the year because of high interest rates and tight credit. A $12.5-million asphalt roofing products plant will begin production at Fremont, California, in late Spring 1981. The new glass mat plant at Russellville, Alabama, began production in late 1980. An adjacent facility was scheduled to begin pilot production of glass fibers in January 1981. Production of concrete roof tiles began in June

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



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1980 at the new Celotex-Marley plant at San Bernardino, California. Despite continued strength of nonresidential construction, low levels of residential construction activity and sluggish renovation/remodeling markets prompted a lower sales performance by the *Building Products Division*. By January of this year Celotex' fourth Thermax plant was to have come on stream at Tracy, California. The *Industrial Products Division* achieved higher sales of Celotemp pipe insulation, Thermax tank and vessel insulation and medium density fiberboard. However, soft markets and severely depressed conditions in the automotive industry were major factors in the Division's lower operating performance. In May 1980 Insul-Coustic Corporation, a basic maker of glass fiber and molder of glass fiber products, was merged with the Division.

Carey Canada Inc.—Although sales remained relatively flat, increased production of medium and long fiber grades provided some compensation for lower demand for short fibers. The higher operating costs of producing medium and long grades were reflected in this Division's lower income contribution. Costs were reduced wherever possible through operating improvements designed to offset increased expenses for energy and supplies. Tighter worldwide government controls and increased adverse publicity continued to affect the market as industries responded to possible restricted use of asbestos either by curtailing manufacturing operations or seeking substitute materials.

Latest Asbestos Stock Quotations

CLOSE: JANUARY 20, 1981

Advocate Mines	Bid 1.55* Asked 1.65*	G&W (pfd 5.75)	57½
Armstrong World Ind.	14¾	IC Industries	30
Armstrong (pfd 3.75)	29	IC Ind. (pfd 3.50)	45¼
Asarco	39⅛	Johns-Manville	24
Asbestos Corporation	29¾*	J-M (pfd 5.40)	45
Bendix	55¼	Kennecott	27
Bendix (pfd B)	48	Lear Siegler	35¾
Brinco	11⅝*	Lear Siegler (pfd 2.25)	92
Carlisle	82⅞	McAdam Mining	1.05*
CertainTeed	12⅞	National Gypsum	21⅜
Charter Conso.	pence 203	Pathfinder	52¢*
Colt Industries	46¼	Porter, H. K. (pfd 5.50)	73⅜
Colt Ind. (pfd 1.60)	35¾	Raybestos-Manhattan	25⅝
Conwest-A	7½*	Rio Algom	32½*
Conwest-B	6⅝*	Rio Algom (pfd 5.80)	55½*
GAF Corporation	13⅝	Rio Algom (pfd 8.5%)	4¼*
GAF (pfd 1.20)	17¼	St. Gobain	French francs 128.50
General Mining	US$19.62½	Supradur	Bid 5, Asked 5½
Genstar	33⅝	Union Carbide	54¼
Genstar (pfd 1.68)	30	United Asbestos	5¾
Gulf & Western	15½	Walter, Jim	30⅜
G&W (pfd 2.50)	39	Walter, Jim (pfd 1)	8¼
G&W (pfd 3.87)	93½	Walter, Jim (pfd 1.60)	32½
		Transpacific Asbestos	54¢*

*Canadian Dollars

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People On The Move

CAREY CANADA INC.—*A. H. Bagenstose*, Vice President-Marketing and Sales, announced that *Joseph A. Munder, Jr.*, has assumed the additional responsibilities for sales in the Mexican market. Mr. Munder, whose headquarters will remain in Chicago, Illinois, has been Regional Sales Manager in the Central United States for the past eight years.

THE CELOTEX CORPORATION—As announced by *Gerald E. Stanley*, Marketing Manager, Insulation and Specialty Group, *Thomas A. Rowe* has been named Field Product Promotion Manager, Industrial Insulation and Specialty Products, responsible for Thermax industrial insulation, asbestos products and felt specialties. He has been with Celotex since 1976. *Robert Powell*, formerly Field Product Promotion Manager for industrial insulation and specialty products, was given responsibility for high-temperature insulation products and accessories. Celotex is the major Building Materials Division of Jim Walter Corporation.

CERTAINTEED CORPORATION—*Gerald M. Waters* was named Senior Vice President of Marketing and Sales for the Insulation Group, responsible for marketing and sales of the group's Commercial and Industrial Division. He had been with the Shelter Materials Group.

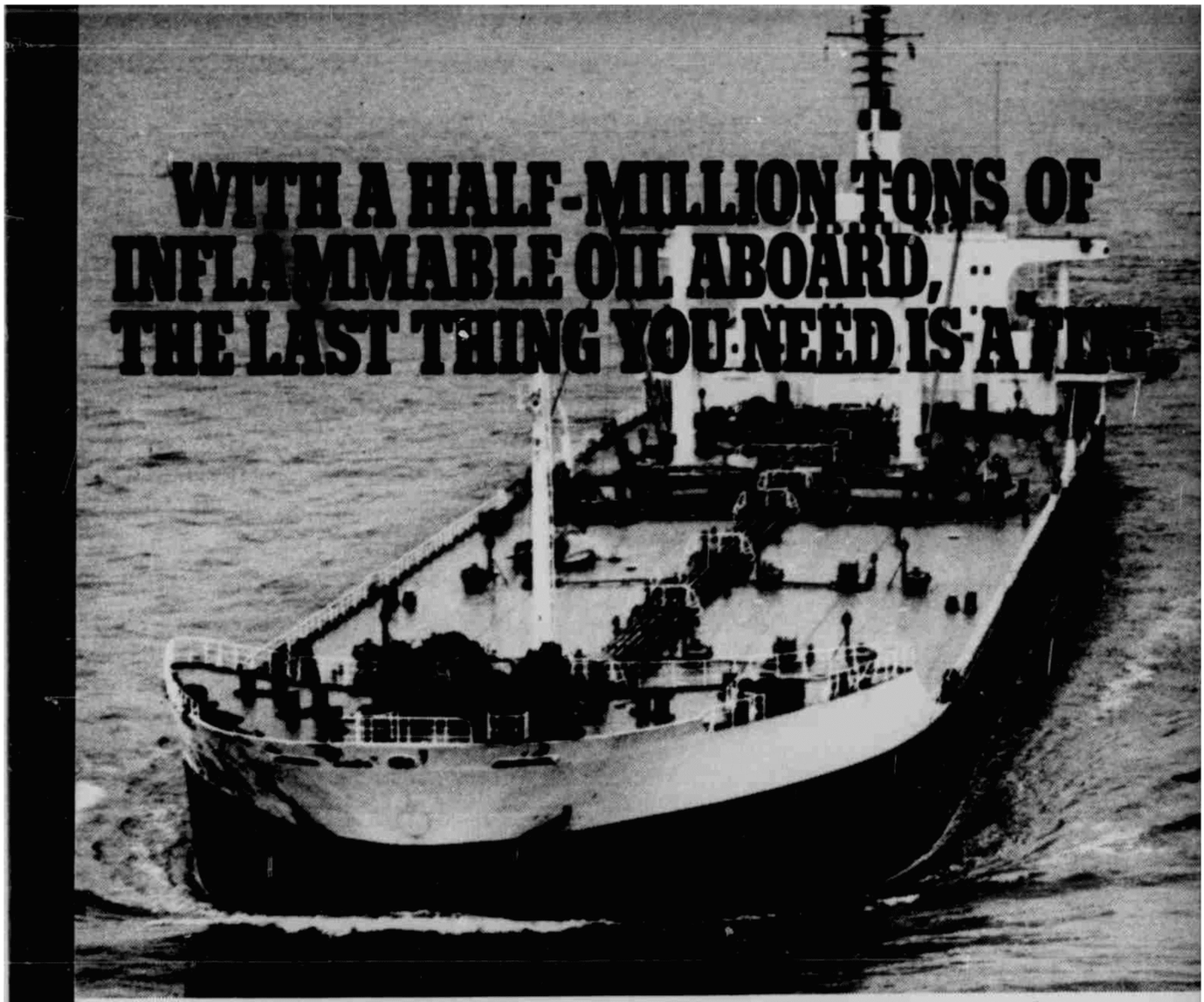
EVERITE LTD.—*Llewellyn B. Lewis* was recently capped with a Doctorate in Business Leadership at a graduation ceremony at the University of South Africa. The title of his thesis was "The Implications of the Perception of Quality of Life with Specific Reference to Low-Income Housing." Dr. Lewis is Product Manager-Building Materials for Everite. Two other company announcements were the appointments of *Richard Ball* as Group Accountant and *A. R. Wright* as Production Manager at the Brackenfell Factory.

PERKIN ELMER—Former Corporate Medical Director at Raybestos-Manhattan, Inc., *Hilton C. Lewinsohn, MB., BCh., MFOM., DIH.*, has commenced duties as Corporate Medical Officer for Perkin Elmer, effective February 1, 1981. Although his new responsibilities will not specifically involve asbestos, Dr. Lewinsohn intends to continue his collaboration in the study of the incidence of mesothelioma in Connecticut and will remain a Member of the Mineral Fibers Scientific Committee of the Permanent Commission and International Association on Occupational Health.

RAYBESTOS-MANHATTAN, INC.—Executive appointments recently announced by *Frederick J. Ross*, President and Chief Executive Officer, include *Rollance E. Olson* as President of the R/M Aftermarket Division, *Edward V. Baich* as Vice President and Assistant to the President and *Frederick F. Schauder* as Chief Financial Officer. Mr. Olson had been with the Bendix Corporation and Mr. Baich, the Carborundum Company. Mr. Schauder, formerly with Engelhard Minerals & Chemicals Corporation, joined R/M last July as Vice President-Finance.

TURNER & NEWALL LTD.—*Alan Nelson* has been appointed Corporate General Manager-Planning, following the resignation of *W. R. Fairhall*. *Colin Beck* succeeds Mr. Nelson as Director and General Manager of Turners Asbestos Fibres.

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The environmental consequences of a burning super-tanker would be disastrous. So would the loss of life.

An empty supertanker is even more dangerous. It can simply explode from a small spark in the wrong place.

No wonder painstaking precautions are taken to protect the ships that carry the oil that runs our economy.

Asbestos material is used to isolate fire-causing people and electrical systems from the cargo because asbestos cannot catch fire and holds up even after steel has melted down.

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

ASBESTOS

When life depends on it, you use asbestos.

Asbestos Corporation Limited,
Sun Life Building,
Montréal, Québec H3B 2X6,
Canada.

Represented by:
Price & Pierce (Far East) Ltd.,
8 Soi Dreng Udom, Sukhumvit Road 33
P.O. Box 2626, Bangkok, **THAILAND**
International Import-Export Ltd.,
G.P.O. Box 2584, **SINGAPORE**
(FOR SINGAPORE-MALAYSIA-INDONESIA-PHILIPPINES)
Other representatives world-wide.

Birthday Greetings to . . .

J. Gerry Foley, President, Albion AAP Inc., Montreal, Quebec, *March 18.*
Harry M. Hay, Manager, Fiber Development & Research, Johns-Manville Canada Inc., Asbestos, Quebec, *March 18.*
J. Douglas Little, President & Chief Executive Officer, Cassiar Resources Ltd., Vancouver, British Columbia, *March 21.*
Thomas C. Osborne, Executive Vice President, responsible for mining, exploration and asbestos-related activities, Asarco Inc., New York City, *March 21.*
R. K. Day, Deputy Chairman & Chief Executive, TAC Construction Materials Ltd., Manchester, England, *March 22.*
Douglas O. Cooke, Director of Corporate Product Publicity & Special Projects, Johns-Manville Corporation, Denver, Colorado, *March 23.*
Edward A. Corbett, President, A & M Insulation Company, Chicago, Illinois, *March 24.*
Alvin P. Tiedemann, Vice President-Manufacturing, Raybestos Industrial Products Company, North Charleston, South Carolina, *March 24.*
John P. McGinley, Vice President-A/C Pipe Manufacturing, CertainTeed Corporation, Valley Forge, Pennsylvania, *March 25.*
Peter Buchholz, Sales Manager, Lac d'Amiante du Quebec Ltee, Black Lake, Quebec, *March 26.*
K. E. Vitek, President, Scandura Inc., a subsidiary of BBA Group Ltd., Charlotte, North Carolina, *March 26.*
D. K. Macfarlane, Managing Director, James Hardie Industries Ltd., Sydney, New South Wales, Australia, *March 27.*
A. E. Alpine, Consultant for the asbestos-cement pipe industry, Boyertown, Pennsylvania, *March 29.*
Grant V. Wilson, Jr., Secretary, Grant Wilson, Inc., Chicago, Illinois, *April 1.*
Gordon A. Coats, President, Calaveras Asbestos Ltd., Copperopolis, California, *April 3.*
W. C. Thurber, Product Manager-Asbestos, Union Carbide Corporation, Metals Division, Niagara Falls, New York, *April 3.*
Andre Gauthier, General Manager, National Mine Division, Lac d'Amiante du Quebec Ltee, Thetford Mines, Quebec, *April 5.*
James L. Petrick, a Sales Representative, Southern Textile Corporation, Matthews, North Carolina, *April 7.*
K. S. Andrews, a Director, Transvaal Consolidated Land and Exploraation Co. Ltd., Johannesburg, Republic of South Africa, *April 8.*
A. C. Beguin, Manager of Operations, Chrysotile Corporation of Australia Pty. Ltd., Woodsreef, Barraba, New South Wales, Australia, *April 8.*
Stuart Charbula, Executive Vice President, Hedman Mines Ltd., Timmins, Ontario, *April 8.*
Dr. Richard A. Kuntze, Vice President-Operations, Ontario Research Foundation, Sheridan Park, Mississauga, Ontario, *April 10.*
F. G. Carter, Deputy Chairman & Joint Managing Director, Ferodo Ltd., Chapel-en-le-Frith, Derbyshire, England, *April 11.*
Henry B. Moreno, Senior Vice President, International Group, Johns-Manville Corporation, Denver, Colorado, *April 11.*
J. Vermeer, Managing Director, Vermeer Agenturen B.V., Haarlem, Holland, *April 13.*

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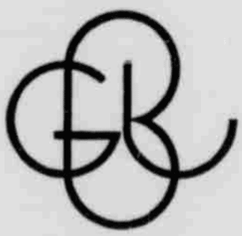
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WHEN ORDERING THROUGH "ASBESTOS," PLEASE INCLUDE ADVANCE PAYMENT IN U.S. FUNDS ON A U.S. BANK AND SPECIFY FEBRUARY 1981 AS DATE OF LISTING.

THE CANADIAN MINING INDUSTRY AND CONSTITUTIONAL CHANGE—Submitted by The Mining Association of Canada (MAC) at the 37th Annual Conference of the Provincial Ministers of Mines; MAC notes that effective policy making in Canada requires two kinds of consultation and partnership—between levels of government and between governments and the private sector; MAC offers the following fundamental needs of the Canadian mining industry: consistency and stability in the domestic climate; free movement of capital, labor, products and services; ability to remain internationally competitive; a realistic level of aggregate taxation; a balance of economic and environmental interest and requirements; harmonization of governmental policies and their implementation; the ability to attract and retain a skilled work force. [19 pages; available from MAC, Suite 409, 36 Toronto Street, Toronto, Ontario M5C 2C2]

AN EVALUATION OF VACUUM EQUIPMENT FOR COLLECTION OF ASBESTOS WASTE—Nine industrial vacuum cleaners, suitable for the collection of asbestos waste, were evaluated and tested for the amount of asbestos fiber concentration in the exhausted air and the effects of increasing capacity on vacuum cleaner performance; an extensive work practice evaluation was performed on the units; also a comparison of three asbestos fiber counting methods (NIOSH approved method, fibrous aerosol monitor and concentration method) was conducted using one of the vacuum cleaners; evaluation of the performance of three of the units was done using isokinetic sampling. [77 pages; DHHS/NIOSH Publication 80-137; order from: Publications Dissemination, DTS, National Institute for Occupational Safety and Health, 4676 Columbia Parkway, Cincinnati, Ohio 45226]

CONCISE WORLD ATLAS OF GEOLOGY AND MINERAL DEPOSITS—By Dr. D. R. Derry; presents, in laymen's language, a compact summary of world geology and the distribution of mineral deposits; is based on the radical changes which have occurred over the past 15 years in the concepts of the discoveries of mineral resources and still greater increase in consumption; includes a review of the composition and history of the earth based on modern concepts of plate tectonics; illustrates the global distribution of earthquakes, volcanics, tectonic plate boundaries and some of the stages of continental movement; a section of tables summarizes, for each major metal and mineral, including asbestos, the principal producing countries. [110 pages; $46.00 via surface mail; $69.50 via air mail; published by Mining Journal Books Ltd.; may be ordered through ASBESTOS]

STATE INFORMATION BOOK—Contains a chapter on each of the 50 States plus the District of Columbia, Puerto Rico, the Virgin Islands and Guam; defines the standard federal regions and the ten federal regional councils; lists toll-free hotlines and contains a mileage chart and maps of the standard federal regions and telephone area codes; the data, by State, include names, addresses and telephone numbers of state officers,

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major state services and members of the General Assembly, the Supreme Court and of federal representatives and agencies. [310 pages; $18.50; published by Potomac Books, Inc.; order includes an early 1981 supplement; may be ordered through ASBESTOS]

ASBESTOS SAMPLING AND ANALYSIS—By G. S. Rajhans & J. Sullivan; reviews the latest developments in asbestos sampling in the work environment, air and water; focuses on sampling methods, fiber counting and direct reading instruments; places particular emphasis on selection of the most appropriate method for identifying and quantifying airborne fibrous particulates; discusses optical microscopic procedures, microchemical approaches and differential thermal analysis methods. [$37.50; published by Ann Arbor Science/The Butterworth Group; may be ordered through ASBESTOS]

UILI DIRECTORY OF MEMBERS, 1980—Provides names, addresses and fields of activity of all members of the International Association of Independent Laboratories; membership includes those who undertake consulting and advisory work, analysis and testing, laboratory investigations, research and development; also offered are scientific services in forensic matters, patents, insurance and legal problems (including expert witnessing); written in English, German, French, Spanish, Danish and Dutch. [124 pages; $8.50; add $3.25 for air mail; may be ordered through ASBESTOS]

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New Asbestos Patents

U.S. PATENTS MAY BE PURCHASED FROM THE COMMISSIONER OF PATENTS, WASHINGTON, D.C. 20231 @50¢ EACH. PHOTOPRINTS OF NON-U.S. PATENTS MAY BE PURCHASED FROM THE SAME SOURCE AT 30¢ PER PAGE. REMITTANCES SHOULD BE IN COIN, CURRENCY OR CHECK AND THE NUMBER OF THE PATENT, NAME OF INVENTOR AND DATE OF ISSUE SHOULD BE GIVEN.

British 1,568,232—In the manufacture and packing of vinyl-asbestos tiles, each tile has on one face a hot-melt-type pressure sensitive adhesive and on the other a silicone release agent and the tiles are stacked in such a manner that all adhesive surfaces are in contact with release surfaces of adjacent tiles; A. G. Boranian & W. C. Timm; assigned to GAF Corporation, May 29, 1980; 7 pages.

British 2,033,356—Recovery of reusable asbestos from waste generated in the production of asbestos sheets, strands or other bodies using a co-agulant and an organic detergent surface active agent; the waste is solubilized with hydrochloric acid, washed and reacted with an alkali to form a dispersion of asbestos fibers; E. K. Spitz & L. E. Cox; assigned to Raybestos-Manhattan, Inc., May 21, 1980; 3 pages.

U.S. 4,208,244—Strands for use in the manufacture of textile yarns are produced from an aqueous dispersion of hot water, asbestos fibers, a commercial sodium soap of mixed tallow fatty acids containing an excess of free fatty acid and stearic acid or myrisitic acid; P. H. Taylor; assigned to TBA Industrial Products Ltd., June 17, 1980; 4 pages.

U.S. 4,208,246—A consolidated diaphragm for use in a chlor-alkali cell is made by dispersing into an aqueous suspension of asbestos fibers a polymer emulsion of cellulose ethers or a described polyethylene glycol or polypropylene glycol, depositing the dispersion on a metal screen and drying the deposited sheet whereby the polymer becomes adhesive and binds the asbestos fibers; S. Kiga, N. Yoshida, K. Edahiro & T. Sakata; assigned to Nippon Soda Co. Ltd., June 17, 1980; 5 pages.

U.S. 4,209,562—An improved binder for use in water-laid, rubber-bonded asbestos sheets comprises a major proportion of styrene/butadiene latex or neoprene latex and a minor proportion of a described highly carboxylated polymer; such a binder permeates undispersed asbestos clumps and strengthens the interfiber bonding; D. W. Suwala & E. S. Barabas; assigned to GAF Corporation, June 24, 1980; 8 pages.

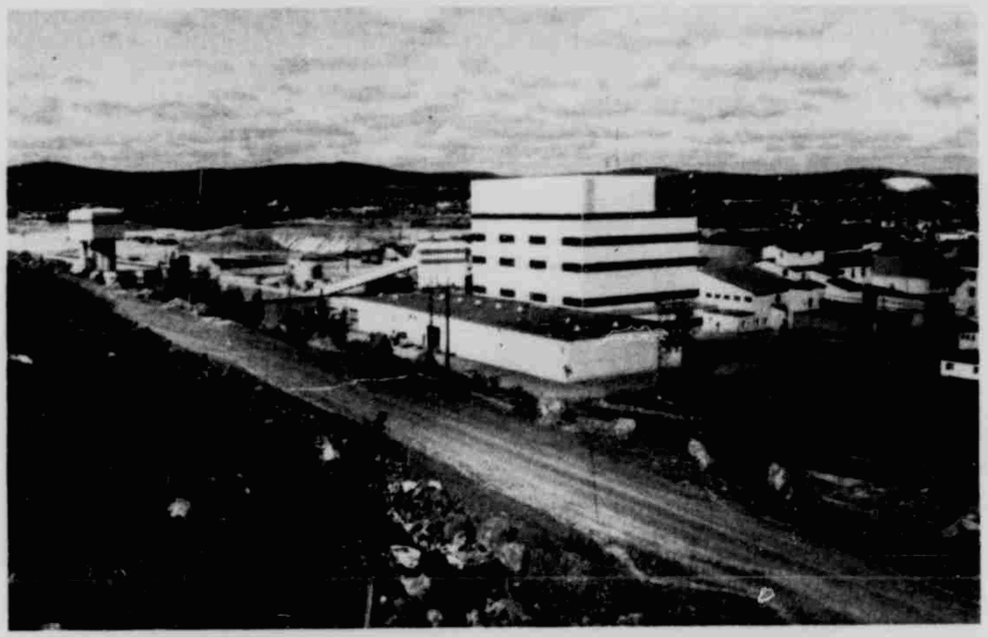
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Calendar of Events

PROFESSIONAL DEVELOPMENT—Seminars at McGill University, Montreal, Quebec: The Planning and Execution of Mineral Development Strategies, *March 16-20;* Mineral Processing Systems, *March 23-April 3;* Geophysical Data Processing and Interpretation; *April 6-10;* Pay, Motivation and Productivity, *April 13-16.*

BUILDING MATERIALS—International Symposium sponsored by the Building Research Institute, Alena Enterprises of Canada; Miami Beach, Florida, *March 17-18.*

APPLYING TECHNOLOGY TO MANAGING HAZARDOUS WASTES—Conference at Batelle's Columbus Laboratories, Columbus, Ohio, *March 18-19.*

GOVERNMENT CONTRACTS—Briefing conference announced by BNA Education Systems and The Federal Bar Association; Philadelphia, Pennsylvania, *March 19-20.*

NATIONAL INSULATION CONTRACTORS ASSOCIATION—26th annual convention; San Francisco, California, *March 22-24.*

FOREIGN INVESTMENT IN THE UNITED STATES—Seminar of the Practising Law Institute; San Francisco, *March 23-24;* New York City, *April 6-7.*

INTERNATIONAL MARKETING MANAGEMENT—Seminar at the University of Michigan, Ann Arbor, Michigan, *March 23-27* and *June 1-5.*

GOVERNMENT AFFAIRS—Seminar of the Air Pollution Control Association to discuss the National Commission on Air Quality Report to Congress and the Clean Air Act; Washington, D.C., *March 25-26.*

FRACTURE—5th international conference on fracture mechanics, from physical mechanisms to practical applications; Cannes, France, *March 29-April 3.*

PRODUCT LIABILITY PREVENTION—Short course conducted by the American Society for Quality Control; Milwaukee, Wisconsin, *April 6-10.*

CORROSION/81—International conference sponsored by the National Association of Corrosion Engineers; Toronto, Ontario, *April 6-10.*

ENERGY, ENVIRONMENT & TEXTILE OPERATIONS—51st annual research and technology conference of the Textile Research Institute; New York City, *April 7-8.*

CURRENT BLASTING PRACTICE—Seminar presented by Precision Blasting Services in conjunction with the Eastern Mining Show; Huntington, West Virginia, *April 8-10.*

INTERNATIONAL LITIGATION—Seminar of the Practising Law Institute; Los Angeles, California, *April 9-10;* New York City, *June 4-5.*

DEVELOPING AMERICA'S NEW METRIC CAPABILITY—Theme of the 7th annual conference of the American National Metric Council; Washington, D.C., *April 12-14.*

A/C PIPE PRODUCERS ASSOCIATION—9th annual meeting and industry conference; Palm Springs, California, *April 12-16.*

PNEUMATIC HANDLING OF BULK PARTICULATE MATERIALS—Forum to be held by the British Materials Handling Board; High Wycombe, England, *April 13-14.*

GRADIENT-INDEX OPTICAL IMAGING SYSTEMS—Topical meeting of the Optical Society of America; Honolulu, Hawaii, *May 4-6.*

AGGLOMERATION—International symposiumn and equipment exhibition; Nurnberg, West Germany, *May 6-8.*

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Remember When?

(February 1931 ASBESTOS)

New Advertiser: Manganexport GmbH, Berlin, Germany

R. C. McClenathan, Sr., retired December 31, 1930, as Vice President, after 40 years of service with the H. F. Watson Company, Erie, Pennsylvania. His basic career was in the asbestos and roofing industry.

Asbestos was found to be efficient in casting babbitt bearings, such as those used in grist and saw mills, cotton gins and threshing and mowing machines. A dough composed of the fiber and cylinder oil was used to caulk the hard-to-reach areas of the cast-iron gear boxes.

This issue announced the new name of S.A. Miniere Amianto Italiano for the former Brunetti & Pampura, Milan, Italy.

Herbert E. Sunbury had joined Allbestos Corporation, Philadelphia, Pennsylvania, as Mill Manager. He had previously held a similar position at the Waterford Plant of Asbestos Spinning & Weaving Corporation.

(March 1931 ASBESTOS)

New Advertisers: Becker & Haag, Berlin, Germany
The Ruberoid Co., New York City

British Belting and Asbestos Ltd., London, England, introduced the use for "blankets of asbestos cloth" as a fire extinguishing device for motor cars. The asbestos blanket sold for about $3.00.

New or improved products announced in this issue included Careystone Asbestos-Cement Weatheraged Shingles from Philip Carey Company; Norbestos Fyr-Bord developed by Norristown Magnesia & Asbestos Company; the Steelbestos Gasket, of Detroit Gasket & Manufacturing Company; and the Eternit Asbestos-Cement Tapered Shingle, designed and marketed by The Ruberoid Company, New York City.

W. A. RuKeyser was in the midst of several trips to Russia, acting as Supervisor and Consulting Engineer for the Uralasbest asbestos mine.

The Connecticut Committee on Incorporations reported favorably to the request by Russell Manufacturing Company to increase its capital stock to not more than $5-million to expand the manufacture and distribution of Rusco brake linings and other automotive products.

L. & V. Flower Ltd., London, was appointed agent in England for the line of asbestos brake lining made by Vereinigte Asbestwerke Danco-Wetzell and Company, A.G., Dortmund, Germany.

The Directors of African Asbestos Trust announced that owing to the market price of asbestos and the failure to raise further working capital for the installation of a main plant, they were compelled to curtail operations at the asbestos mine in the Transvaal, Union of South Africa, and to suspend operations on May 31, 1931.

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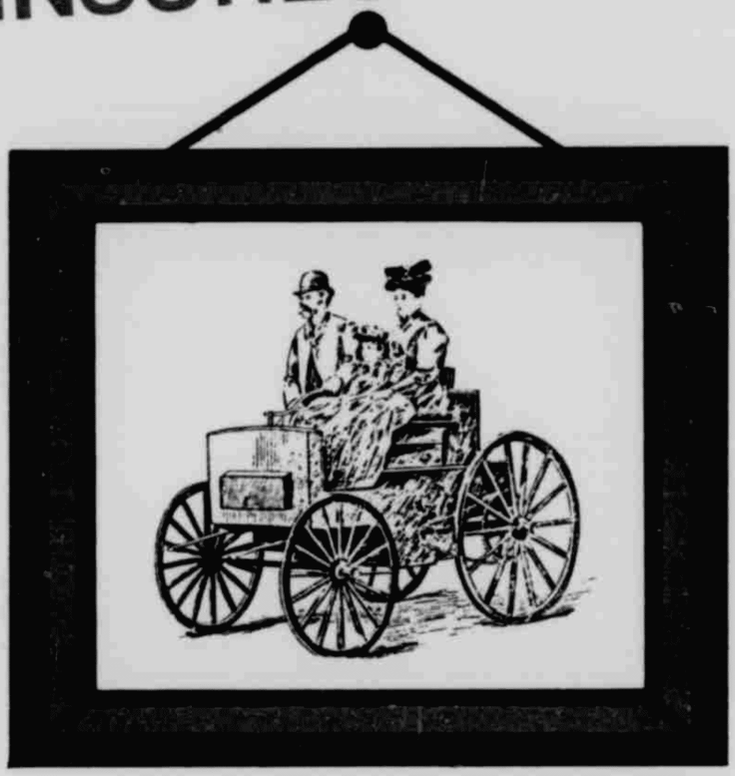
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