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THE GCA MODEL FAM FIBROUS AEROSOL MONITOR



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We're helping industry appreciate the "locked in" benefits of asbestos 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 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. And once "locked in," the release of asbestos into the environment will not be significant during normal product use.

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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When our asbestos is used in the manufacture of pipe products, it becomes 'locked in'. So our customers can keep on using it.

Asbestos is an important component in one out of every four feet of underground water and sewer pipe installed today in the United States. These pipes, and an extensive range of other finished products, contain asbestos that is "locked in" by cement, asphalt, rubber, latex, or other binders, to provide environmentally safe materials. Once "locked in," the release of asbestos into the environment will not be significant during normal product end use.

As a result, our customers can continue taking advantage of the unique properties of asbestos. In thousands of asbestos-containing products, asbestos serves an essential function that has not been duplicated on a cost-performance basis.

While EPA and OSHA have established standards that limit the amount of airborne asbestos generated during production or fabrication of a product in factory or on site, there are virtually no hazards associated with the proper end use of finished products where the asbestos is "locked-in."

As one of the world's leading suppliers of asbestos, we at Johns-Manville are vitally concerned with helping our customers meet these standards. On any problem anywhere, we're ready to help.

We have years of experience in creating systems that effectively and economically control asbestos dust generated in the handling of asbestos fiber and in the machining and fabricating of products containing asbestos. Our experience can help you to eliminate or substantially reduce employee exposure to asbestos.

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We'd like to help. For more information on the safe handling of asbestos, write on your company letterhead to Jim Reis, Asbestos Fiber Division, Johns-Manville, Ken-Caryl Ranch, Denver, CO 80217.

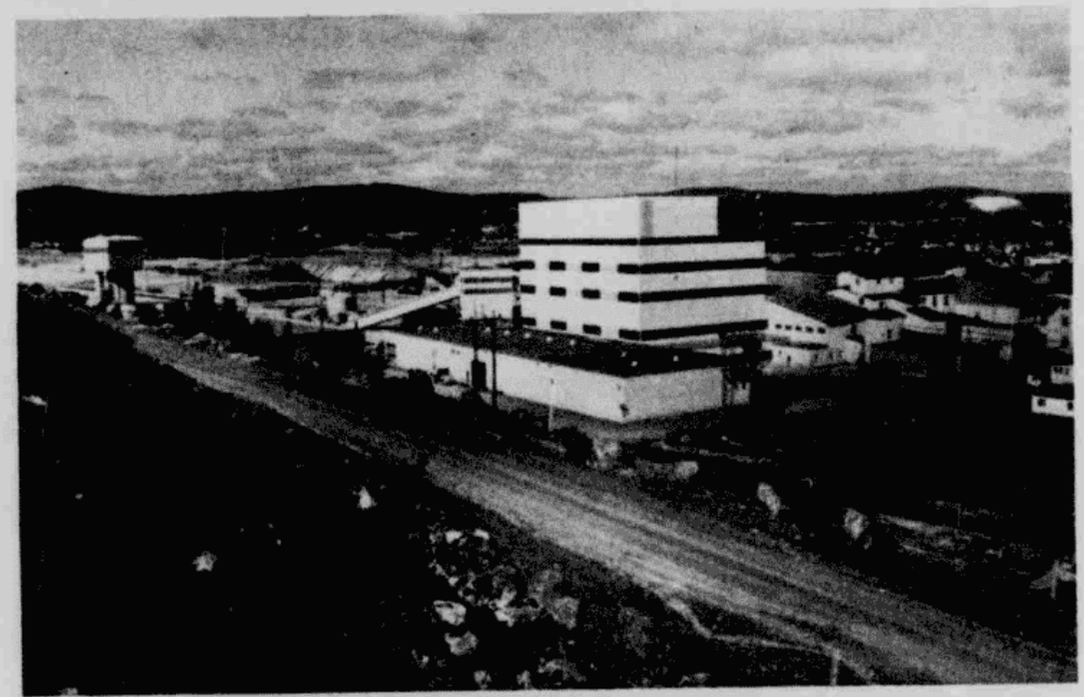
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ASBESTOS

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A COMPARISON: THE GCA MODEL FAM FIBROUS AEROSOL MONITOR TO THE NIOSH RECOMMENDED PROCEDURE FOR ASBESTOS SAMPLING AND MICROSCOPIC COUNTING

TESTS PERFORMED BY FIVE QUEBEC ASBESTOS COMPANIES IN AUGUST AND DECEMBER 1978

BY: PEDRO LILIENFELD, GCA CORPORATION,
BEDFORD, MASSACHUSETTS

MARC TRUDEAU, QUEBEC ASBESTOS MINING ASSOCIATION

During the months of August and December 1978, independent series of tests were performed by five major asbestos mining companies at six different mills in the Province of Quebec, Canada, to determine the relationship between GCA Corporation's new Fibrous Aerosol Monitor, Model FAM, and the NIOSH-approved reference method for determining airborne asbestos concentrations in the workplace.

Four of the companies, which are members of the Quebec Asbestos Mining Association (QAMA), performed their tests in August under the coordination of Mr. Marc Trudeau, Technical Advisor to QAMA. A fifth major asbestos company evaluated the FAM during the month of December.

The test results presented here are summarized from a comprehensive report prepared by Mr. Trudeau entitled, "The FAM (Fibrous Aerosol Monitor): Some Tests."

THE AUGUST 1978 TEST

Test Procedure—Comparative tests were performed with GCA's Model FAM-1 and the NIOSH-approved sampling and counting procedure for asbestos. Each of the five mills performed its own microscopic fiber counts utilizing its own equipment. Data were compiled at various locations within each of the five mills including: adjacent to rock screens; adjacent to fiber screens; bagging; quality control laboratory; and in the filtration room. Filter samples were collected on a 37mm membrane filter next to the inlet of the FAM which sampled for the same duration. Sample times were typically set at 90 minutes. Since the FAM unit utilized in this program was calibrated at GCA's laboratory using fiber glass, an initial series of field calibration runs in parallel with the membrane filter were performed at Mill D, the first location where the FAM was tested.

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The FAM has an adjustment on the front panel for setting the minimum detectable fiber length (MDFL) which the instrument counts. Theoretically, the dial setting corresponds directly with fiber length for straight fibers. However, since there is some curliness of the fiber, the optimum setting (for correspondence to the microscopic procedure of counting all fibers longer than 5 micrometers) may be somewhat less than 5. Consequently, the mining companies chose to generate comparative data at MDFL settings of both 4 and 5.

Results—Prior to presenting and discussing the results of the test program, it is necessary to comment on the reproducibility of the microscopic asbestos fiber counting method employed and the variation expected between the counters in the different laboratories of each mill. No attempts to address these questions were made by the asbestos companies during this study. All the counting was performed by experienced counters who are able to repeat their counts, individually, to within ±20%. As to the reproducibility within the group, all the counters meet regularly and exchange slides in order to ensure a uniform understanding of the counting criteria. Therefore, although variations amongst the results of the counters cannot yet be quantified, they are thought to be minimal.

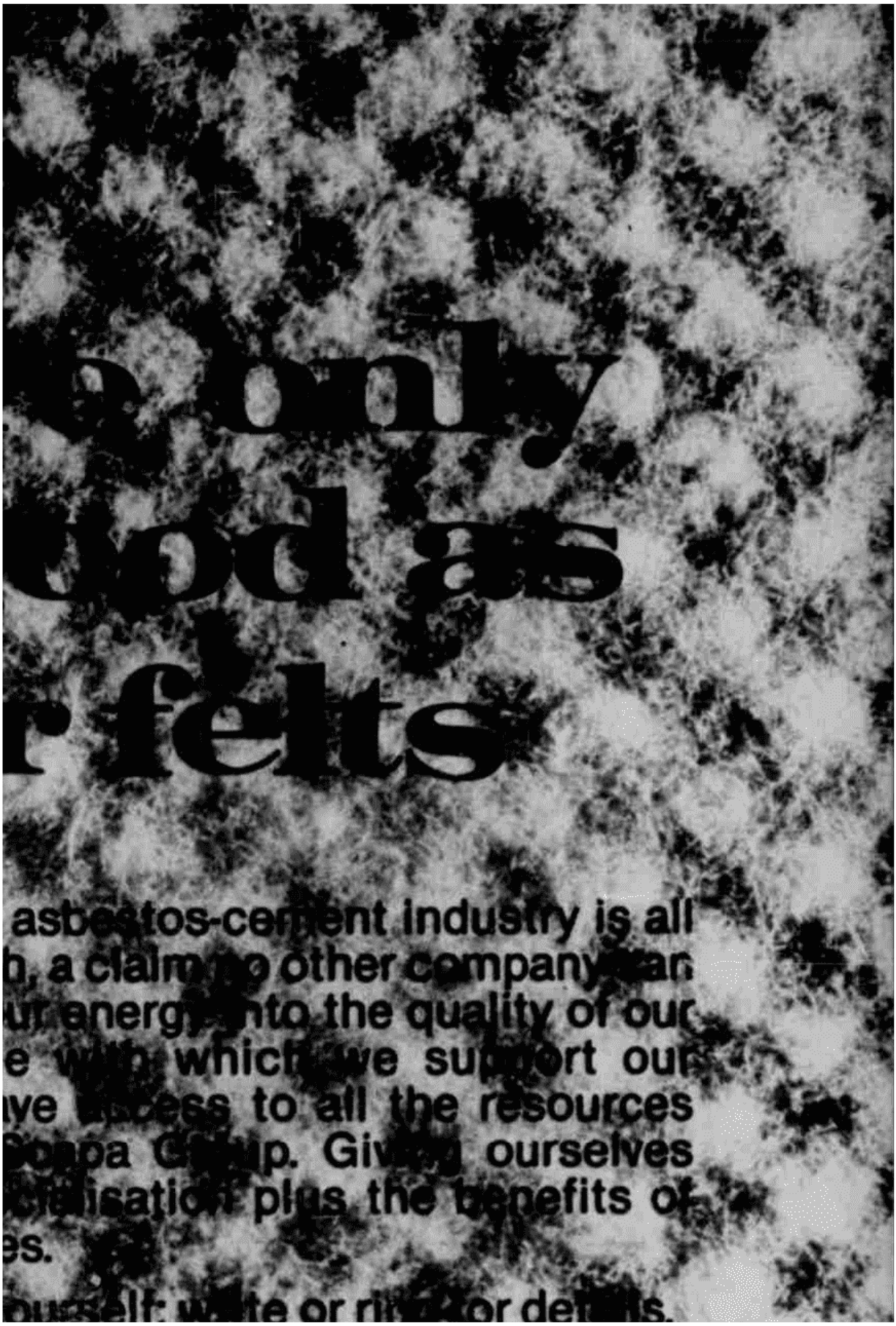
Table 1 summarizes the results. Graphic illustrations are available from ASBESTOS Magazine.

Table I

Comparative Results Between FAM and NIOSH-Approved Asbestos Sampling Method (QAMA Member Companies, August 1978)

Location	Minimum Detectable Fiber Length (MDFL) Setting	No. of Samples	Correlation Coefficient	Least Squares Line Slope
Mill A	4	9	0.93	0.76
	5	9	0.80	1.20
Mill B	5	7	0.79	0.91
Mill C	4	9	0.90	1.23
	5	8	0.78	2.56
Mill D	4	3	0.98	1.07
Mill E	4	7	0.87	4.05
	5	7	0.95	8.56
Combined Data of Mill A, C & D	4	21	0.87	0.89

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Review of the data indicates that correlation coefficients, especially at the MDFL setting of 4, were quite high. In addition, with the exception of Mill E, the slope of the least squares lines at an MDFL setting of 4 were all within 25% of unity (i.e., 0.76, 1.23, 1.07). This consistent agreement between the FAM and the asbestos reference method is further summarized in a graphic illustration available on request. This chart combines the data from Mills A, C and D at an MDFL setting of 4. The resulting correlation coefficient is 0.87 with a slope for the least squares line of 0.89.

Review of Table I indicates that at an MDFL setting of 5, the FAM is consistently undersampling. This could possibly be explained by the presence of curly fibers whose actual length is longer than 5 micrometers (and, therefore, counted by the microscopist) but whose effective length (longest straight-line distance) is less than 5 u and, therefore, not counted by the FAM.

Examination of data from Mill E indicates an inconsistency in results relative to data from the other companies. Although Mill E data shows a very high correlation with the membrane filter fiber count, the FAM undersampled by factors of 5 and 8.6 at MDFL settings of 4 and 5, respectively. There appears to be nothing specifically unique about the nature of Mill E's fiber and processing operation to account for the difference. Further testing will be required to determine the causes for this discrepancy.

THE DECEMBER 1978 TEST

Test Procedure—These tests were performed in a similar fashion utilizing the same testing protocol as described for the earlier program. The only basic difference was that for this test, the FAM was initially calibrated with Chrysotile asbestos fibers at GCA's laboratories so that no field calibration was performed.

Results—The following Table II summarizes the results of this testing program. A detailed graphic illustration is available from this Magazine.

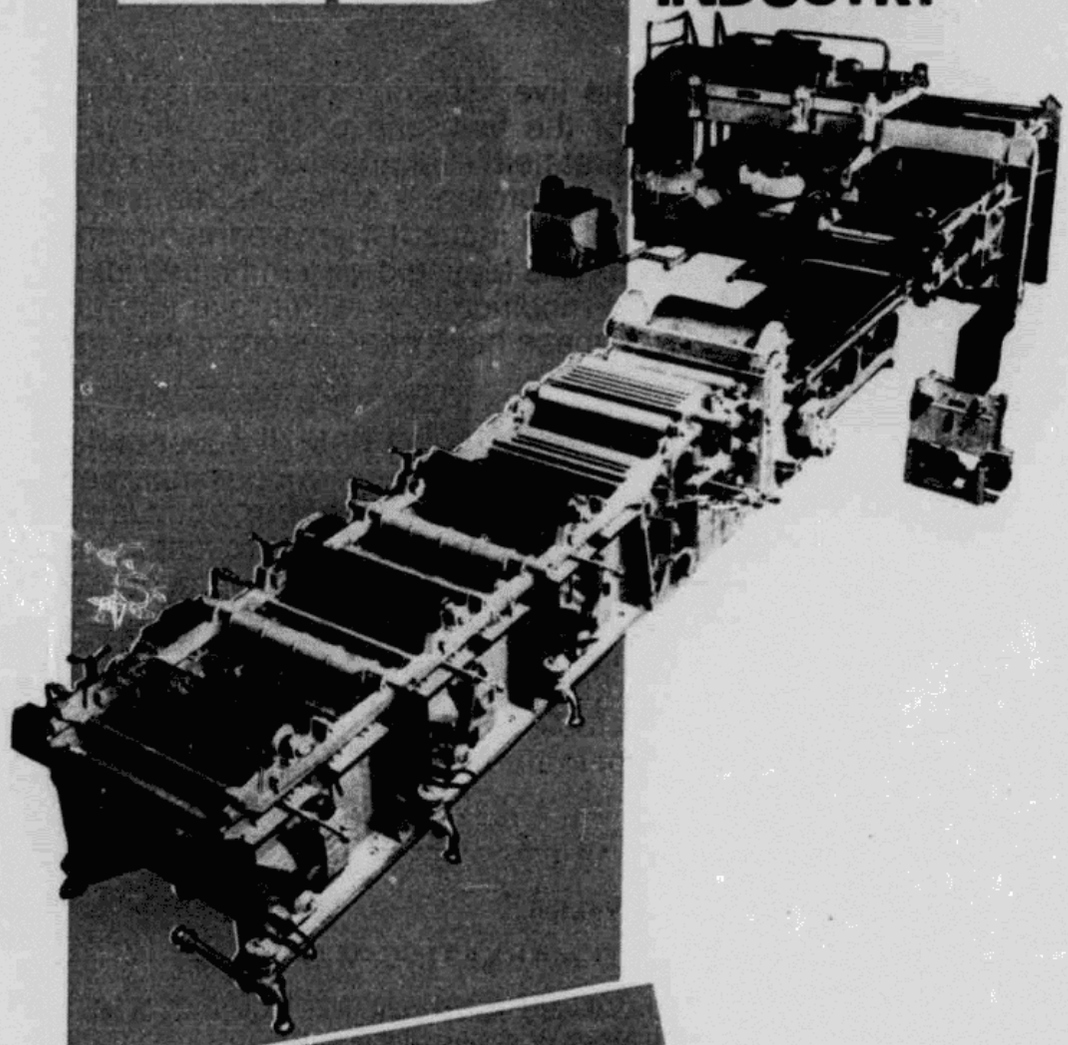
Table II

Comparative Results of FAM and
NIOSH-Approved Asbestos Sampling Method
(Thetford Mines, Quebec, December 1978)

Location	Minimum Detectable Fiber Length (MDFL) Setting	No. of Samples	Correlation Coefficient	Least Squares Line Slope
Mill F	4	4	0.97	0.350
	5	8	0.91	1.005

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Here again, excellent correlation between the FAM and reference asbestos sampling method was obtained. The results, however, indicate that a 1-to-1 relationship between the FAM and reference method is obtained at a minimum detectable fiber length setting of 5 instead of the 4 setting obtained in the earlier tests. We postulate that the reason for this is that the FAM, prior to the December Test, was calibrated at GCA's laboratory utilizing asbestos at an MDFL setting of 5.

CONCLUSIONS

GCA Corporation thanks the five asbestos companies which participated in this program for the time and effort of their personnel. This program was the first field evaluation of the FAM and provided valuable data on the performance of the instrument as well as its compatibility with typical industrial environments and handling by different personnel. This testing program helped identify the need for certain design modifications to improve the ruggedness of the instrument and these have been incorporated into subsequent production models.

With regard to the data generated by the FAM, it appears the data obtained document the ability of the FAM to successfully perform real-time field measurements of asbestos fiber concentrations with accuracies at least comparable to the microscopic reference method. In addition, according to GCA, the fast response, portable nature and continuous recording capability of the device make it eminently suitable for the identification of short-term peak concentrations; for use in industrial hygiene surveys; for engineering and quality control studies; and in other applications where the real-time, on-the-spot features of the FAM are required.

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COMPANIES & PRODUCTS

T&N OPENS TWO FACTORIES

A new £2-million automotive components factory for *Turners Engineering Products (Nigeria) Ltd.*, a subsidiary of Turner & Newall Ltd., was officially opened in May by the Nigerian Federal Commissioner for Industries. (The Nigerian government has a 40% interest in the subsidiary). The facility, situated at Ibadan, is producing brake linings from sheet material supplied by Ferodo Ltd., United Kingdom, will soon be making Ferodo disc brake pads and hopes to extend the range of components to include automotive gaskets. . . . *Nuturn Corporation*, a T&N company in the United States, opened a $10-million manufacturing and warehousing operation in May at Smithville, near Nashville, Tennessee. The intent is to exploit Ferodo's European experience in the development of friction materials to enter the U.S. original equipment market. Up to now, Nuturn has been selling mainly to the replacement market, under the trade names "Leland" and "Grizzly."

FLINTKOTE AGREES TO BE ACQUIRED

The Flintkote Company, Stamford, Connecticut, said it agreed in principle for a New York investor group to acquire the building materials producer for $52.00 per share. Based on Flintkote's 7.2-million common shares outstanding, the transaction would have a value of about $374.4-million. Organizer of the investment group is *Kohlberg, Kravis, Roberts & Co.* The acquisition is subject to execution of a definitive agreement, filings with regulatory agencies and approval by company directors and shareholders. Flintkote's largest single shareholder, *Genstar Ltd.*, a diversified Canadian firm with 21.5% of the outstanding common, said it had no comment on the purchase offer. Hearings are currently being held in federal court on Flintkote's suit to enjoin Genstar from acquiring additional Flintkote shares. [The Wall Street Journal]

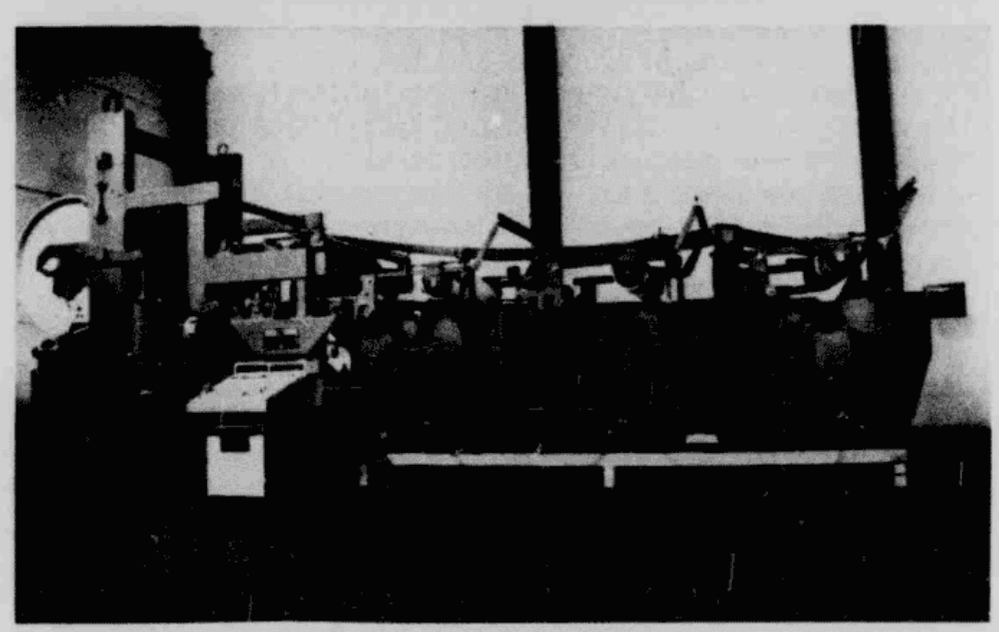
R/M AIMS FOR NON-ASBESTOS PRODUCTS

Raybestos-Manhattan, Inc., Trumbull, Connecticut, announced the key corporate objective to reduce its dependence on asbestos-based products through development of alternative materials wherever appropriate. The extensive and continuing commitment of research and development resources to this aim

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has resulted in original equipment and aftermarket approvals and production releases for passenger car and industrial wet friction products and dry clutch facings. In addition, R/M is currently completing field tests of asbestos-free brake blocks and disc brakes, with initial production scheduled within the next twelve months.

BBA CENTENARY BROCHURE

A special centenary brochure has been distributed by *BBA Group Ltd.*, Cleckheaton, Yorkshire, England, to commemorate the foundation of the enterprise in 1879. The origin of the company lies in the chance meeting of two men in Sweden, i.e., *William Fenton*, a Scotsman who was employed as weaving manager at a textile mill, and *Walter Willson Cobbett*, a merchant of industrial supplies, who was on holiday. Mr. Fenton had invented a solid twill woven cotton belting which he felt would improve on the current plain woven beltings which were beginning to supersede leather and canvas belts for driving machinery. Mr. Cobbett was interested and the two men discussed the possibility of entering into a partnership. So it was that Mr. Fenton left Sweden in 1879, moved into a small works at Dundee and began the manufacture of *'Scandinavia' belting*—named in honor of the Swedish meeting. The belting was sold by Mr. Cobbett from his offices in London. Following a few relocations, agreements and an amalgamation, new premises were acquired at Cleckheaton and in 1901 the name of the facility became *Scandinavia Mills*. The company's name was changed in 1911 to *'Scandinavia' Belting Ltd.* In 1925, five years after 'Scandinavia' Belting took over the *British Asbestos Company*, these two companies merged under the new name of *British Belting and Asbestos Ltd.* A complete reorganization took place in 1967 when a holding company—*BBA Group Ltd.*—was formed to administer and develop the Group companies in the United Kingdom and abroad. Two new wholly-owned subsidiaries—*Mintex Ltd. and Scandura Ltd.*—were created to carry out the manufacturing and selling activities of the former company. More recently, *BBA Automotive Ltd.* was formed to coordinate the Group's friction and anti-friction material interests.

Other interesting details in the history of BBA recorded in the centenary brochure are concerned with the company's contribution in the two World Wars, its social and welfare, industrial and automotive activities and overseas development. Today, BBA manufactures in Australia, Canada, the Republic of South Africa, Spain, the United States and West Germany and of its 7,000 employees, some 2,500 work overseas.

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MARKET CONDITIONS

GENERAL BUSINESS

It is now generally agreed that the economy has entered the early stages of the long-anticipated recession. After a relatively flat first quarter, Gross National Product registered the largest drop in four years during the second quarter of 1979 and a further decline is now predicted for the current quarter. While unemployment declined infinitesimally last quarter, the jobless rate is expected to increase rather rapidly from here on.

In an internal document, not yet adopted as official, administration economists forecast a considerably gloomier picture of the economy than any so far presented publicly by the administration. In brief, this study calls for consumer prices to increase 11% this year and 9% next year, real GNP to decline 1.4% this year and to increase 1.1% next year and for an unemployment rate of 6.7% in fourth quarter 1979, rising sharply to 8.2% in the fourth quarter of 1980.

While predicting the future course of the economy is notoriously risky, the present consensus is that the recession will be relatively mild compared to that of 1974-75 but the recovery will probably be slow and subject to interruptions depending in large part on the nature and magnitude of government interventions.

Economic news in late July was largely overshadowed by the President's Cabinet changes and by his new proposals for means to cope with the energy problem over the long term. There was certainly nothing earthshaking in the Cabinet re-shuffle and, in light of the Carters' actions since then, it seems obvious that it was really the start of the President's drive for re-election in 1980. It is unfortunate that we must look forward to another full year during which politics will probably take precedence over our two most serious problems—inflation and energy.

Insofar as energy is concerned, the President's proposals, while sweeping and drastic, are sure to be subject to much debate in Congress and among environmentalists, technical experts and producers or prospective producers of fuels and energy-related materiel. It seems certain any resulting legislation will contain major modifications of the Carter proposals and, in view of the tremendous amounts of money involved, will not be implemented without lengthy and serious consideration on the part of all concerned.

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DODGE CONSTRUCTION CONTRACTS

JUNE 1979—Substantial gains in nonresidential building raised the value of total contract awards for new construction in June to $15.3-billion, 5% above the same month of 1978. Despite the heavy activity in nonresidential building, continued weakness in residential construction kept the seasonally-adjusted Dodge Index of total construction contract value at 177 in June, virtually unchanged from 178 in May but down substantially from 202 in April. . . . The value of *nonresidential* building contracts in June was 22% higher than the year ago amount, totaling $4.8-billion, with office and manufacturing building construction showing sizable increases by mid-year. . . . Contracts for *residential* building posted an 8% year-to-year decline in June, falling to 7.3-billion. The physical volume of residential building has been on a general downward trend since January. . . . Contracting for *nonbuilding* construction totaled $3.3-billion in June, a 19% increase from a year ago. The surge in this construction category is directly related to the stimulus of the new Surface Transportation Act, which has boosted street, highway and bridge construction nearly $2-billion above the first half of 1978.

FIRST HALF 1979—The total value of construction contracts for the first six months of 1979 reached $86.63-billion, 11% ahead of the period January to June 1978. Breakdown, by category, is: nonresidential building—$24.75-billion, up 19%; residential building—$38.63-billion, up 5%; nonbuilding construction—$23.25-billion, up 14%. [F. W. Dodge Division, McGraw-Hill Information Systems Company]

RUSSELL A. TODD—RETIRED
ATLAS TURNER, INC.

Russell A. Todd elected to take early retirement, effective May 31, 1979. He had been Vice President-Manufacturing for Atlas Turner Inc., Montreal, Quebec.

Mr. Todd began his career in 1947 by obtaining summer work as a draftsman for Atlas. He graduated from McGill University in 1949 as a Mechanical Engineer and within six years rose from Superintendent to Vice President-Manufacturing. During his tenure with Atlas, he regularly traveled to England and Belgium and throughout the United States and Canada.

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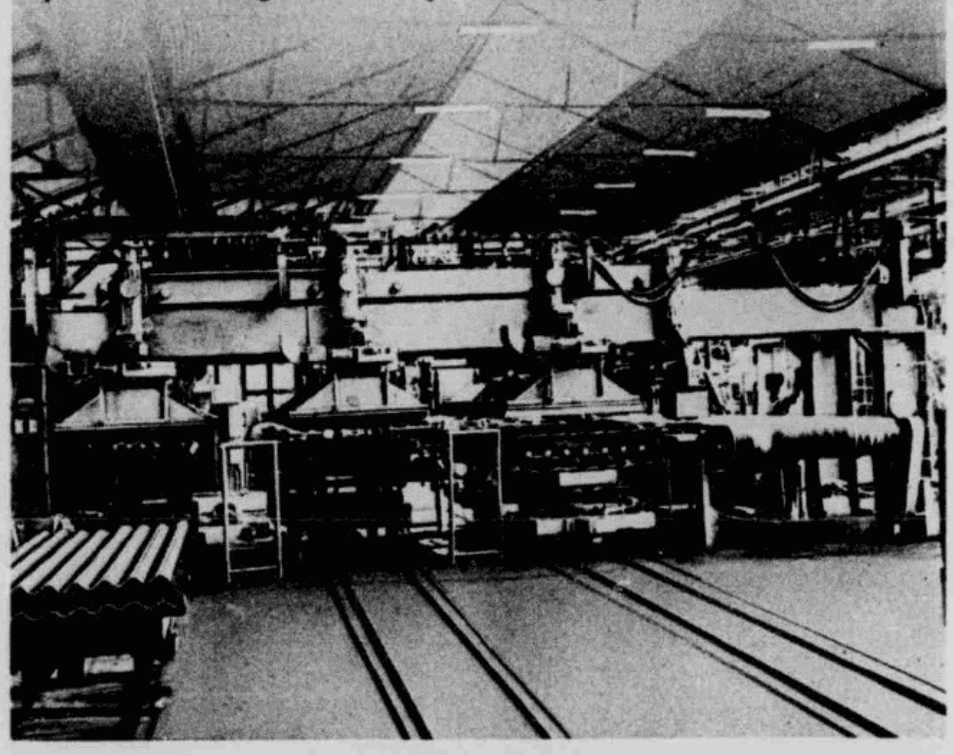
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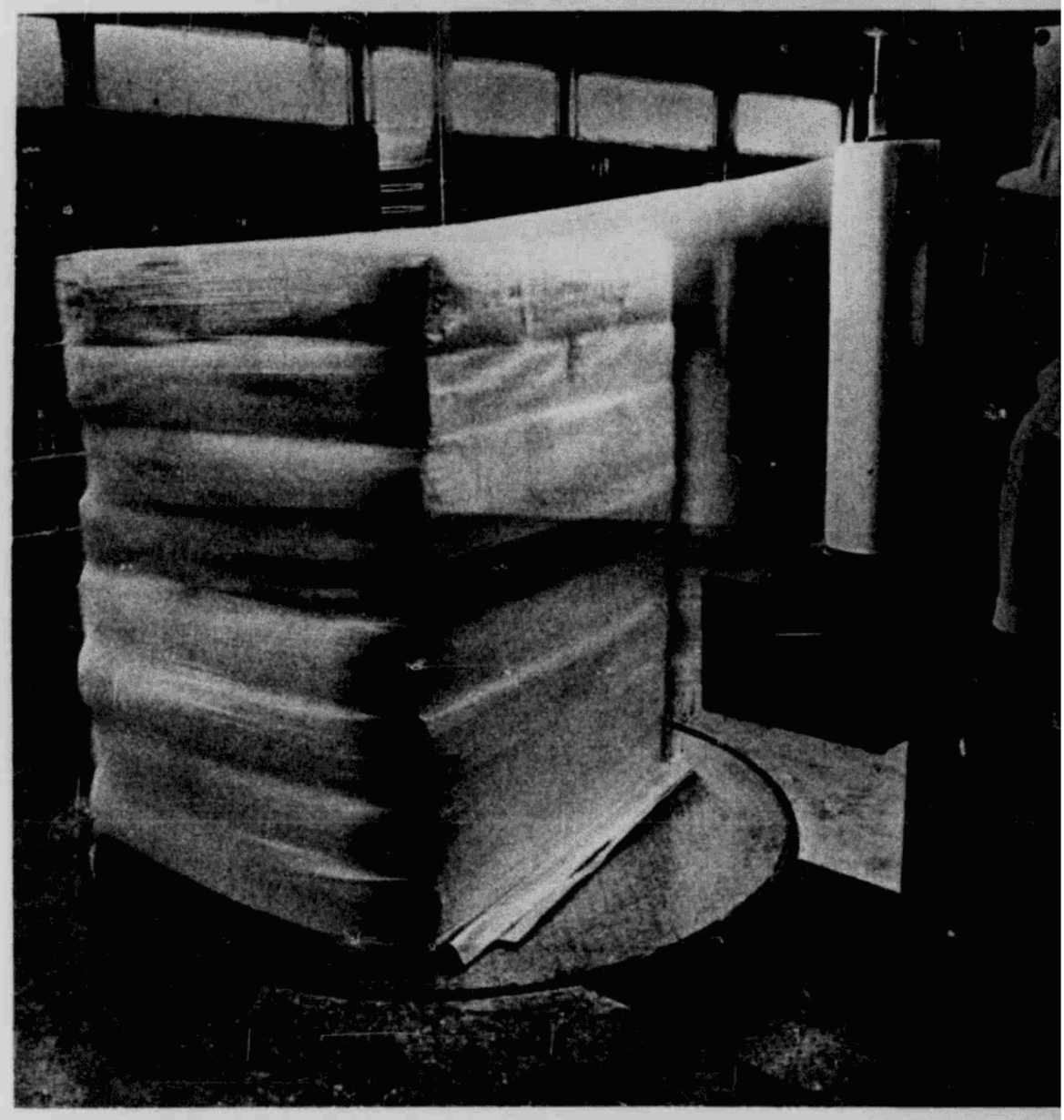
The Export Division

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PRODUCTION—IMPORTS—EXPORTS

CANADIAN FIBER SHIPMENTS—Primary Canadian Producers' *shipments* of asbestos (including tonnage for own use and concentrate shipped from Asbestos Hill) amounted to 119,966 metric tonnes in *May 1979*, compared with 104,481 tonnes in the same month a year earlier. The cumulative total for *January-May 1979* was 576,867 tonnes: 519,424 tonnes from plants in Quebec and 57,443 tonnes from plants in Newfoundland, Ontario, British Columbia and the Yukon. Total shipments for the first five months of 1978 were 507,332 tonnes: 434,732 tonnes from Quebec plants and 72,600 tonnes from plants in the other four Provinces. [Statistics Canada, Ottawa]

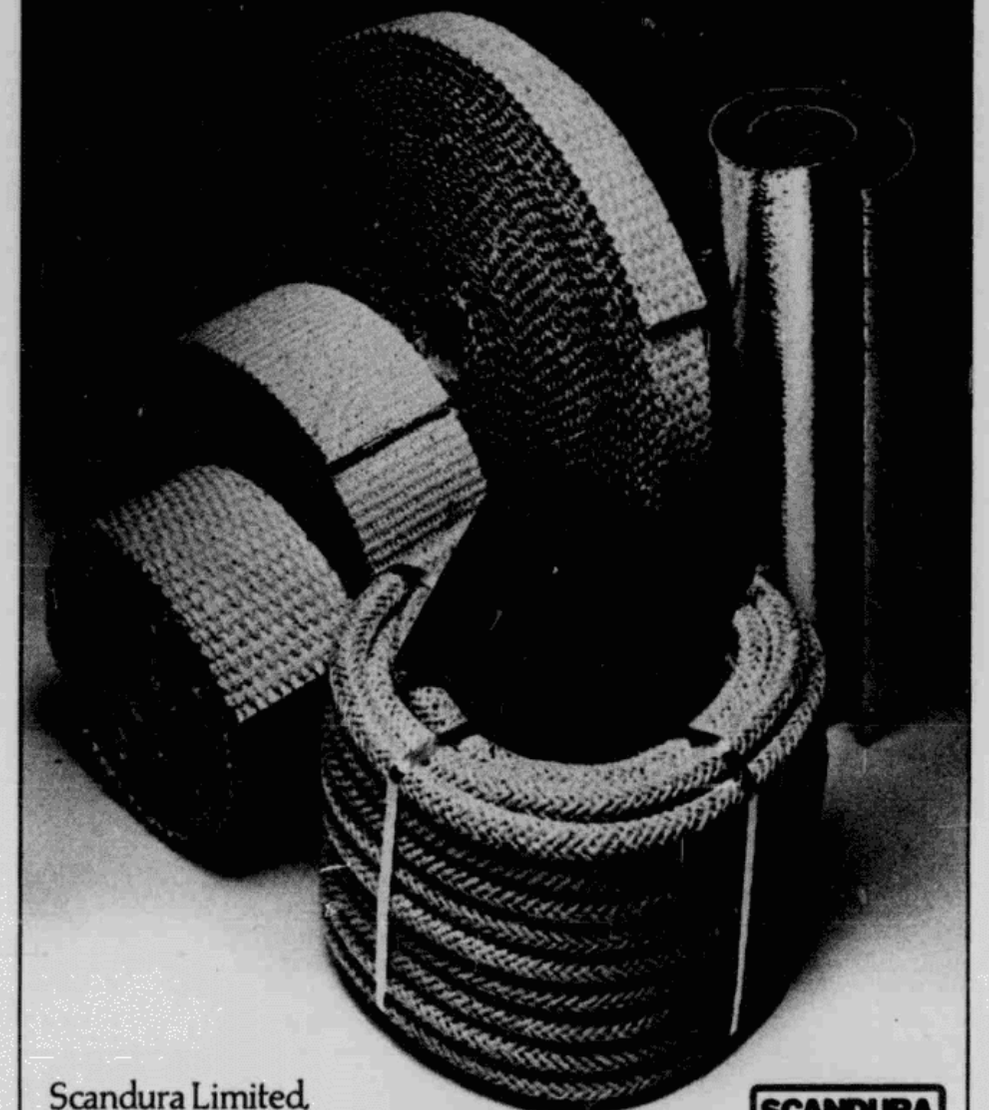
CANADIAN PRODUCT IMPORTS—Canada imported C$8,947,000 worth of asbestos-containing products in the *First Quarter 1979*, compared with $5,646,000 during the first three months of 1978. Breakdown, by product category, for the latest quarter is: vinyl-asbestos floor and wall tiles—$104,000 (52,367 square yards; 43,786 square meters); asbestos cloth, dryer felts and sheets—$870,000; asbestos packing—$758,000 (447,297 pounds; 202,890 kilograms); asbestos brake linings—$2,604,000; asbestos clutch facings—$706,000; asbestos-cement boards and sheets—$279,000; other asbestos building materials—$2,212,000; other basic asbestos products—$1,414,000. [Statistics Canada, Ottawa]

SOUTH AFRICAN OUTPUT & EXPORTS—Asbestos *production* in the *Year 1978* totaled 257,325 metric tonnes, 32.3% less than in 1977. Breakdown for the latest year is: 137,171 tonnes of Cape Crocidolite (down 63,795 tonnes); 79,511 tonnes of Chrysotile (down 32,064 tonnes); 40,526 tonnes of Amosite (down 26,457 tonnes); 117 tonnes of Transvaal Crocidolite (up 27 tonnes). No Anthophyllite was produced in 1978 compared with 550 tonnes in 1977. . . . *Exports* in the *Year 1978* were valued at R107,474,227, down 19.4% from the prior year. By variety of asbestos, the values for the latest year are: Cape Crocidolite—R69,875,653, down R20.5-million; Amosite—R22,639,296, down R820,184; Chrysotile—R14,959,278, down R4.5-million. No Anthophyllite was exported in 1978 against R24,094 worth in 1977. [Department of Mines, Braamfontein]

U.K. ASBESTOS IMPORTS—The United Kingdom imported 117,781 tonnes of asbestos in the *Year 1978* compared with 127,214 tonnes in 1977. The 1978 breakdown by nation of origin is: Canada—88,037 tonnes (87,830 tonnes in 1977); Republic of South Africa—21,203 tonnes (13,941); Cyprus—5,399 tonnes (7,810); Italy—1,281 tonnes (1,027); Swaziland—480 tonnes (14,932); Other Countries—1,381 tonnes (1,674). [Industrial Minerals]

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IMPORTS INTO THE UNITED STATES

From: U.S. Bureau of the Census

			APRIL 1979
UNMANUFACTURED ASBESTOS:			
Amosite, South Africa	s.tons	20	$ 11,322
Crocidolite (Blue), South Africa	s.tons	1,006	605,008
Chrysotile Crudes, Canada	s.tons	80	16,000
Chrysotile Spinning Fibers, Canada	s.tons	833	574,726
Chrysotile, Other, Canada	s.tons	43,068	9,480,491
Germany, Fed. Rep.	s.tons	6	3,320
Mexico	s.tons	6	1,104
South Africa	s.tons	155	95,213
United Kingdom	s.tons	22	3,763
Other Crudes & Fibers, Canada	s.tons	521	117,811
India	s.tons	33	6,750
		45,750	$110,915,508
MANUFACTURED ASBESTOS PRODUCTS:			
Asbestos yarn, cloth, tape, etc.	Lb	850,211	$ 1,241,677
A-C pipes, tubes & fittings	Lb	2,978,375	409,949
Other asbestos-cement articles	Lb	6,090,709	954,711
Other asbestos articles		..	498,017
			$ 3,104,354

			JANUARY-APRIL 1979
UNMANUFACTURED ASBESTOS:			
Amosite, Canada	s.tons	60	$ 4,339
South Africa	s.tons	308	155,916
Crocidolite (Blue), Canada	s.tons	49	17,688
South Africa	s.tons	7,256	4,570,825
Chrysotile Crudes, Canada	s.tons	102	22,209
South Africa	s.tons	403	254,336
Chrysotile Spinning Fibers, Canada	s.tons	3,669	2,922,127
Chrysotile, Other, Australia	s.tons	40	4,377
Canada	s.tons	205,685	44,921,660
Germany, Fed. Rep.	s.tons	12	7,271
Mexico	s.tons	6	1,104
Romania	s.tons	22	3,666
South Africa	s.tons	395	213,323
United Kingdom	s.tons	22	3,763
Yemen	s.tons	22	8,397
Other Crudes & Fibers, Canada	s.tons	4,286	1,321,605
Germany, Fed. Rep.	s.tons	11	28,967
Italy	s.tons	17	3,630
India	s.tons	85	19,880
South Africa	s.tons	90	36,094
		222,540	$54,521,177
MANUFACTURED ASBESTOS PRODUCTS:			
Asbestos yarn, cloth, tape, etc.	Lb	2,997,737	$ 4,541,824
A-C pipes, tubes & fittings	Lb	11,382,031	1,607,640

U.S. IMPORTS—CONTINUED

Other asbestos-cement articles	Lb	11,590,533	2,107,302
Other asbestos articles		..	1,714,436
			$ 9,971,202

January-April 1978: U.S. imports of unmanufactured asbestos totaled 188,339 short tons, valued at $49,573,892; imports of manufactured asbestos products were valued at $10,584,746.

EXPORTS FROM THE UNITED STATES

From: U.S. Bureau of the Census

UNMANUFACTURED ASBESTOS:			**APRIL 1979**
Asbestos Crudes, Fibers & Stucco	s.tons	2,380	$ 816,395
Asbestos Sand & Refuse	s.tons	379	138,950
		2,759	$ 955,345
MANUFACTURED ASBESTOS PRODUCTS:			
Asbestos yarn, cloth, tape, etc.	Lb	500,720	$ 495,582
Asbestos-Cement shingles & clapboard	Lb	1,484,218	354,622
Other asbestos-cement articles	Lb	4,188,846	1,033,374
Asbestos gaskets	Lb	1,362,570	463,460
Asbestos packing & seals	Lb	389,892	856,408
Asbestos Insulation		..	272,933
Brake linings & disc brake pads		..	2,979,924
Clutch facings & linings		..	699,015
Other asbestos articles		..	1,432,880
			$ 8,588,198
UNMANUFACTURED ASBESTOS:			**JANUARY-APRIL 1979**
Asbestos Crudes, Fibers & Stucco	s.tons	8,936	$ 3,116,289
Asbestos Sand & Refuse	s.tons	3,117	1,008,892
		12,053	$ 4,125,181
MANUFACTURED ASBESTOS PRODUCTS:			
Asbestos yarn, cloth, tape, etc.	Lb	2,099,887	$ 2,136,693
Asbestos-Cement shingles & clapboard	Lb	7,886,183	1,884,456
Other asbestos-cement articles	Lb	19,440,403	6,005,752
Asbestos gaskets	Lb	6,065,917	1,920,180
Asbestos packing & seals	Lb	1,336,736	3,835,632
Asbestos Insulation		..	1,541,708
Brake linings & disc brake pads		..	19,223,481
Clutch facings & linings		..	3,237,228
Other asbestos articles		..	6,936,074
			$46,721,204

January-April 1978: U.S. exports of unmanufactured asbestos reached 13,055 short tons, valued at $3,922,067; exports of manufactured asbestos products were valued at $37,089,417.

Asbestos Magazine, 1979, August 1979
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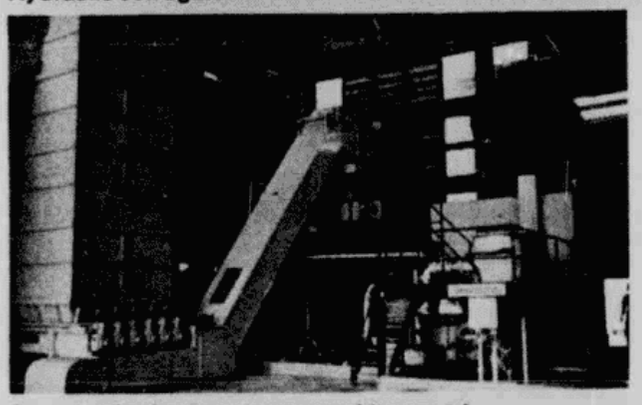
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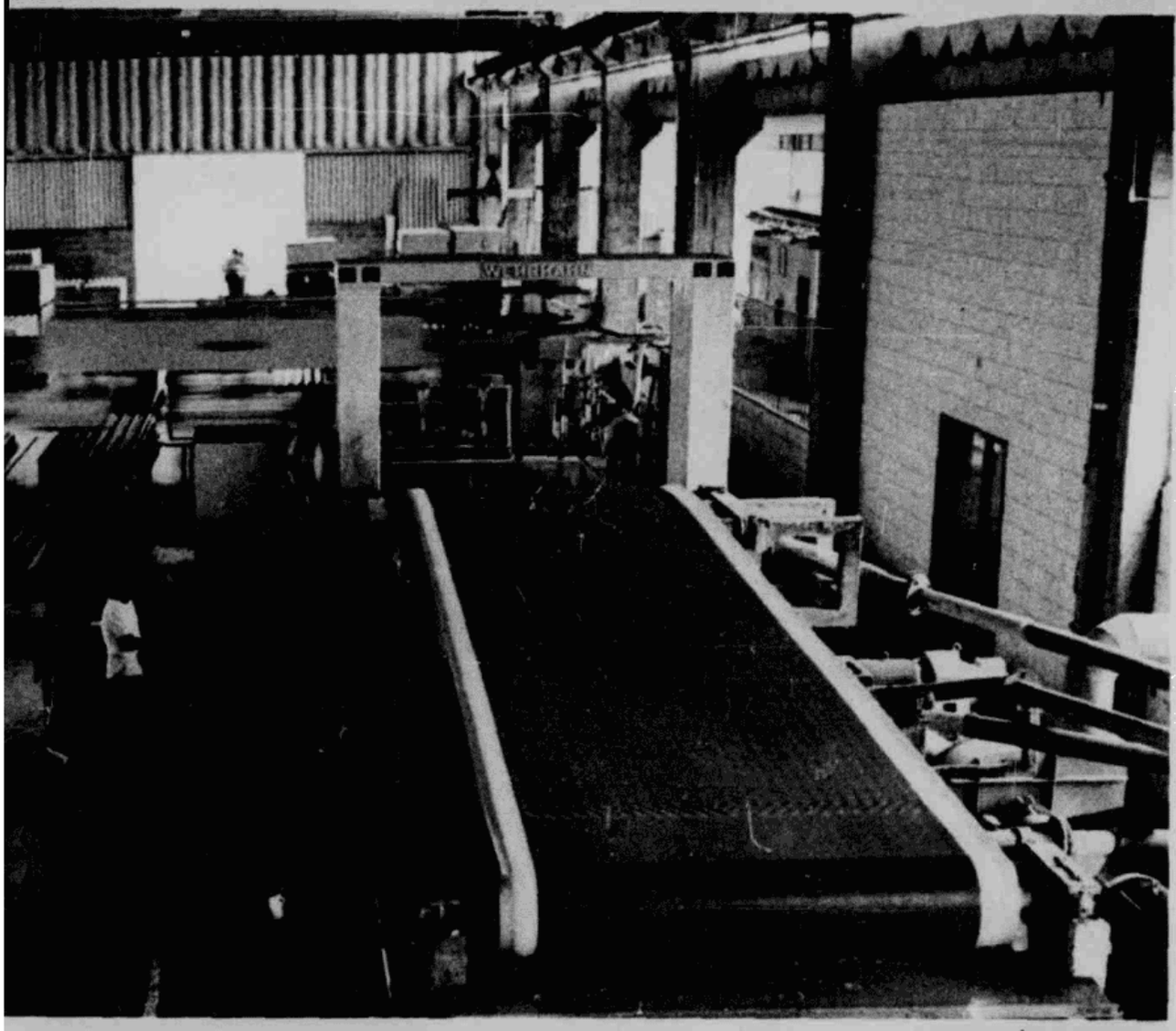
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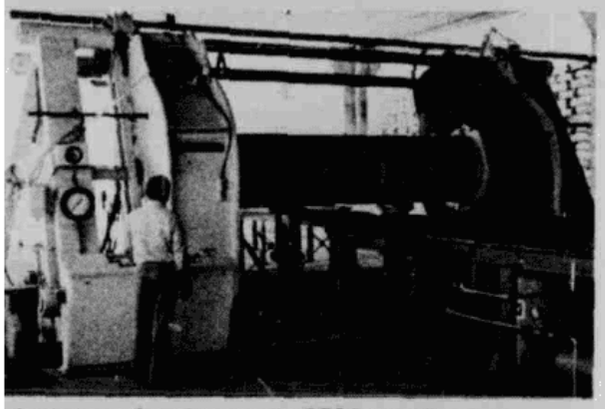


Dustproof asbestos storage and transport

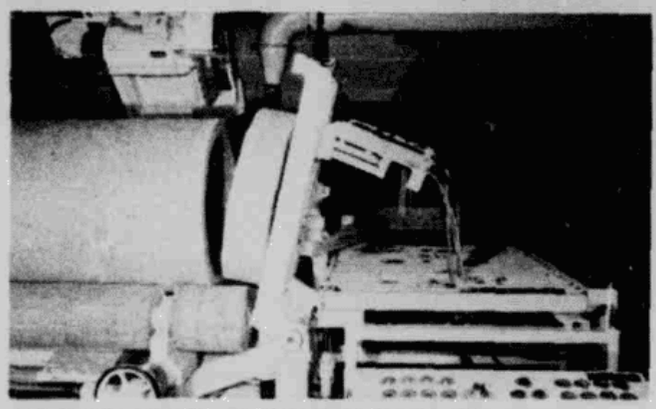
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EXPORTS FROM CANADA

From: Statistics Canada

MARCH 1979

Short Tons

UNMANUFACTURED ASBESTOS:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	1,544	19,254	10,661
Eastern Europe	..	38	3,634	..
Middle East	..	..	121	108
Africa	..	..	180	186
Asia	..	220	15,606	12,390
Oceania	..	..	3,168	130
So. & Cen. America & Antilles	..	371	8,956	5,071
United States	..	1,392	10,985	49,335
	..	3,565	61,904	77,881

The total amount of unmanufactured asbestos exported in *March 1979* was 143,350 short tons, valued at C$53,897,000.

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos cloth, dryer felts & sheets	C$ 700,000
Asbestos brake linings & facings	378,000
Asbestos-Cement building materials	1,020,000
Other basic asbestos products	914,000
	C$3,012,000

JANUARY-MARCH 1979

UNMANUFACTURED ASBESTOS:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	2,498	49,313	39,390
Eastern Europe	..	258	8,516	115
Middle East	..	88	2,101	318
Africa	..	..	1,680	725
Asia	..	1,111	31,426	30,762
Oceania	..	..	5,833	406
So. & Cen. America & Antilles	..	770	18,369	17,194
United States	..	2,334	36,112	133,823
	..	7,059	153,350	222,733

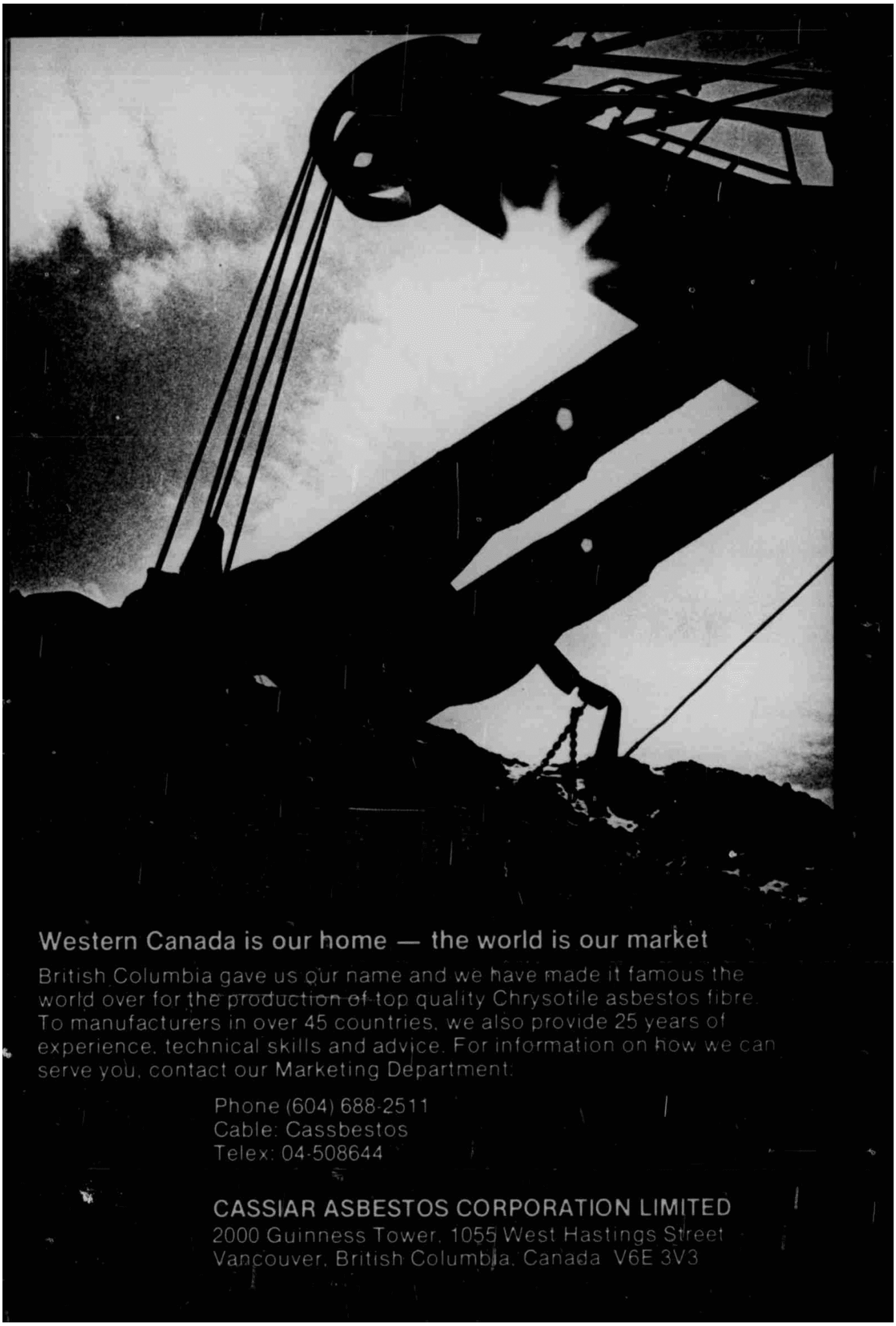
The total amount of unmanufactured asbestos exported in *January-March 1979* was 383,142 short tons. valued at C$137,078,000.

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos cloth, dryer felts & sheets	C$1,635,000
Asbestos brake linings & facings	1,046,000
Asbestos-Cement building materials	3,127,000
Other basic asbestos products	1,985,000
	C$7,793,000

January-March 1978: Canadian exports of unmanufactured asbestos totaled 337,751 short tons (306,408 metric tonnes), valued at C$117,413,000; exports of manufactured asbestos products were valued at C$6,006,000.

Asbestos Magazine, 1979, August 1979
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CURRENT ASBESTOS PRICES

QUEBEC

As of July 1, 1979

Per Ton of 2000 Lbs., F.O.B. Mine
Canadian Dollars

No. 2 Crude	$2295
No. 3 Spinning Fiber	$1023—$1606
No. 4 Asbestos Cement Fiber	687— 1011
No. 5 Paper Fiber	388— 580
No. 6 Paper and Shingle Fiber	330— 352
No. 7 Shorts	113— 218

CASSIAR

As of January 1, 1979

Per Ton of 2000 Lbs., F.O.B. North Vancouver, B.C.
Canadian Dollars

Cassiar Mine

C-1 —No. 1 Crude	$3621
AAA —Nonferrous Spinning Fiber; Canadian Group 3	2000
AA —Nonferrous Spinning Fiber; Canadian Group 3	1600
A —Nonferrous Spinning Fiber; Canadian Group 3	1050
AC —Nonferrous Spinning Fiber; Canadian Group 3	960
AK —Asbestos Cement Fiber; Canadian Group 4	850
AS —Asbestos Cement Fiber; Canadian Group 4	740
AX —Asbestos Cement Fiber; Canadian Group 4	670
AY —Asbestos Cement Fiber; Canadian Group 5	470
AZ —Asbestos Cement Fiber; Canadian Group 6	340

Clinton Mine

CT —Asbestos Cement Fiber; Canadian Group 4	$ 680
CY —Asbestos Cement Fiber; Canadian Group 5	470
CZ —Asbestos Cement Fiber; Canadian Group 6	340

VERMONT

As of January 1, 1979

Per Ton of 2000 Lbs., F.O.B. Morrisville, Vermont
U.S. Dollars

Grade 4T Fiber	$ 591
Grade 5K Fiber	457
Grade 5R Fiber	388
Grade 6D Waste	284
Grade 7D Shorts	188
Grade 7M Shorts	108
Grade 7R Shorts	100
Hooker No. 1	1250
Hooker No. 2	700

ARIZONA

As of July 1, 1976

Per Ton of 2000 Lbs., F.O.B. Globe, Arizona
U.S. Dollars

No. 1 Crude (Soft)	$3000
No. 2 Crude (Soft)	1800
AAA	1300
Group No. 3 Nonferrous Filtering—Plastic	$ 750— 840
Group No. 4 Nonferrous Filtering—Plastic	750— 840
Group No. 7 White Shorts	100— 200



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THE ASBESTOS MINING SCENE

CAPE INDUSTRIES SELLS MINING DIVISION

One of the most significant transfers of asbestos mining properties in recent years took place on June 29, 1979, when the Directors of *Cape Industries Ltd.* (Cape) announced the sale of the company's Mining Division to *Transvaal Consolidated Land & Exploration Company Ltd.* (TCL) for a total consideration of £15.6-million (R28.6-million) which was satisfied in cash on that date.

The principal companies in the Division which, together with their subsidiaries, become wholly owned by TCL are Cape Blue Mines (Pty.) Ltd., which mines Blue (Crocidolite) asbestos at Pomfret in Northern Cape Province, and Egnep (Pty.) Ltd., which mines Amosite asbestos under license at Penge in the Northeastern Transvaal. Certain net assets of Cape Asbestos South Africa (Pty.) Ltd., the holding company for the two mining companies and of Cape Asbestos Fibres Ltd., Cape's U.K.-based asbestos fiber marketing company, were also acquired by TCL as part of the transaction.

The estimated net consideration is £15.1-million (R27.6-million), which approximates the book value of the assets being sold as of June 29, 1979.

Net profit, before taxes, of the Cape Group for the year ended December 31, 1978, was £12.7-million, of which £3.5-million was earned by the Mining Division.

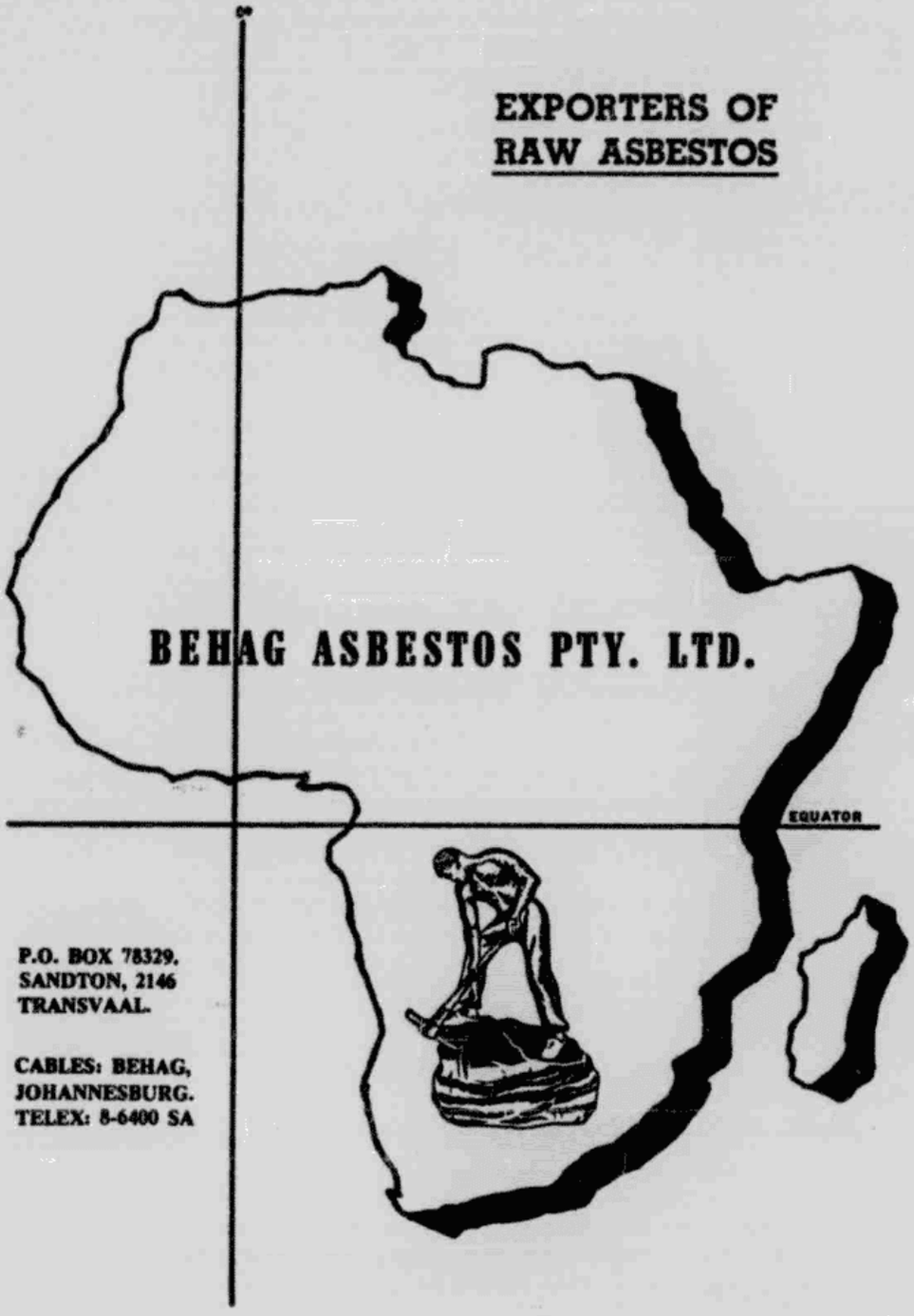
Cape had its origins in South Africa, where it started mining asbestos in 1893. It has since diversified into the manufacture of a wide range of products for the building and automotive industries, with factories in the U.K. and in Europe. Most of the company's products were originally based on the use of asbestos obtained from its own mines and, at one time, Cape was a major user of its own varieties of asbestos. However, in recent years, Cape has used only a small proportion of the total output of the Mining Division, with the balance being sold to other manufacturers of asbestos-based products.

Under the circumstances, it seemed only logical that the mining activities could better be carried on by a company whose primary activities lay within the South African mining industry. As owners of the mining rights at one of Cape's mines, TCL, part of the Barlow Rand Group of South Africa, was a natural candidate. The original intention was to form a partnership but, during the course of negotiations, it became evident that it would be advantageous to both parties for TCL to assume ownership of Cape's entire mining operation.

Proceeds of the sale will be used to further development of Cape's manufacturing, contracting and distribution activities more rapidly than would otherwise have been possible. Cape is presently engaged chiefly in the building and automotive industries. It is the second largest manufacturer of insulation materials in the U.K. and the largest contract installer of such materials for industrial, commercial and domestic uses. In this and the automotive sector of Cape's business, prospects for profitable operation and continuing growth are considered quite good and the company intends to concentrate its efforts in those fields.

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EXPORTERS OF
RAW ASBESTOS



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ASBESTOS CORPORATION DENIED TEMPORARY INJUNCTION

Another round in *Asbestos Corporation Ltd.'s* continuing controversy with the *Government of Quebec* was concluded on July 25, 1979, when a Quebec court refused to issue a temporary injunction to bar the government from expropriating the company's assets. The court's decision would permit the takeover if the government decides to act under the enabling legislation which was enacted in June of this year.

The court's ruling was based on the fact that the company's request for the temporary injunction was "premature" since the government had taken no definite steps toward expropriation. This could be taken to indicate that an injunction might be sought and obtained at a later date, if and when the government should initiate "concrete action" to take over the company's assets.

Meanwhile, although the government has assured Asbestos Corporation that a "savage expropriation" would not be effected, the valuations placed on the properties by the government and by the company are at such variance—about $62-million and $154.5-million, respectively—that an amicable, negotiated settlement seems unlikely at the moment.

WOODSREEF PLANS ASBESTOS WET MILL

Woodsreef Minerals Ltd., Montreal, Quebec, has reached an agreement with *Woodsreef Mines Ltd.*, its Australian subsidiary, to acquire up to 90% of the subsidiary's interest in a wet milling process for asbestos developed in Australia. Tests on the new process at the plant of an asbestos-cement products manufacturer have proved successful and a wet mill will now be built to produce fiber for similar testing by Woodsreef's other customers around the world.

According to the company, the Australian government made a grant of 50% of the costs of developing the new process and is expected to make an additional grant for 50% of the costs of constructing and operating the proposed wet mill. [Financial Times]

PRESTON MINES/RIO ALGOM STUDY MERGER

Preston Mines Ltd. and *Rio Algom Ltd.* have indicated they are considering merging at the end of this year. Preston already owns 44% of Rio Algom and is in turn an 81%-owned unit of *Rio Tinto Zinc Corporation* of London. Both companies are engaged in uranium production and Rio Tinto Zinc, through *Rio Tinto Canadian Exploration Ltd.*, holds a working option on 61 asbestos mining claims owned by *McAdam Mining Corporation Ltd.* at Roberge Lake, McCorkill Township, Quebec.

Rio Algom reported first-half 1979 earnings of C$27.1-million or $1.99 per share. For the same period, Preston reported earnings of $11.7-million or $1.33 per share. [The Wall Street Journal]

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— Machinery for asbestos-cement since 1912, therefore take advantage of our experience.

— Complete plants with high capacity for corrugated and flat sheets, flat pressed and coloured sheets.

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— Auxiliary machines for special sheet profiles.

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ANNUAL REPORTS—1978

BBA GROUP LTD.

Group sales of BBA Group Ltd. for the year ended December 31, 1978, at £120,495,000, increased 13.9% compared with 1977. Direct exports were about the same as last year, at £12,612,000, and represented 23.6% of United Kingdom companies' sales. These, together with overseas companies' sales, totaled £79,630,000 and accounted for 66.1% of Group turnover. Group profit before tax was £7,564,000, an increase of 8% compared with 1977. United Kingdom profits fell 17.6% to £4,084,000 but those earned by overseas companies rose 69.9% to £3,480,000. Profit after tax improved 19.5% to £5,162,000 and, in earnings per share, rose 18.7% to 11.32 pence. Capital expenditures for the year amounted to £8,875,000 and current assets increased £5,615,000. Capital expenditures authorized for 1979 amount to £9,782,000.

Automotive Activities—All vehicle-producing countries contributed to a modest increase in total world production of cars and commercial vehicles in 1978, except the United Kingdom where production fell 6% to the lowest figure since 1961. Improved profits from West Germany, France, the United States, Canada and Australia more than offset reduced profits in Spanish and South African markets. Consolidated sales of BBA Automotive Ltd. showed a gain of 15.5% and profits rose a record 19.6%.

Industrial Activities—On the industrial side, overall sales increased 9.4% but profits fell by 27.4% as compared with 1977. . . . In the United Kingdom, Scandura Ltd. again achieved a small increase in sales but profits were slightly reduced. The Belting Division had a successful year and plans are being made to expand production and sales of conveyor belting and compressed asbestos fibre jointing. . . .

In the United States, Scandura, Inc., had an unsatisfactory year with sales about the same as in 1977 but at a reduced profit level. Scandura Canada Ltd. showed a similar result to that of the previous year and registered a modest profit. . . . At Regina-Fibreglass Ltd. (U.K.) the new plant for production of glass fiber tissue by a wet process came on stream in mid-year. The two overseas glass fiber companies in Australia and South Africa again showed increases in sales and profits as did Blake & Clement Pty. Ltd., asbestos products manufacturers in Australia. . . . Sovex Marshall Ltd. (U.K.), Comprehensive Computer Services Ltd. (U.K.) and BBA Properties Ltd. (U.K.) had successful years in their overall operations.

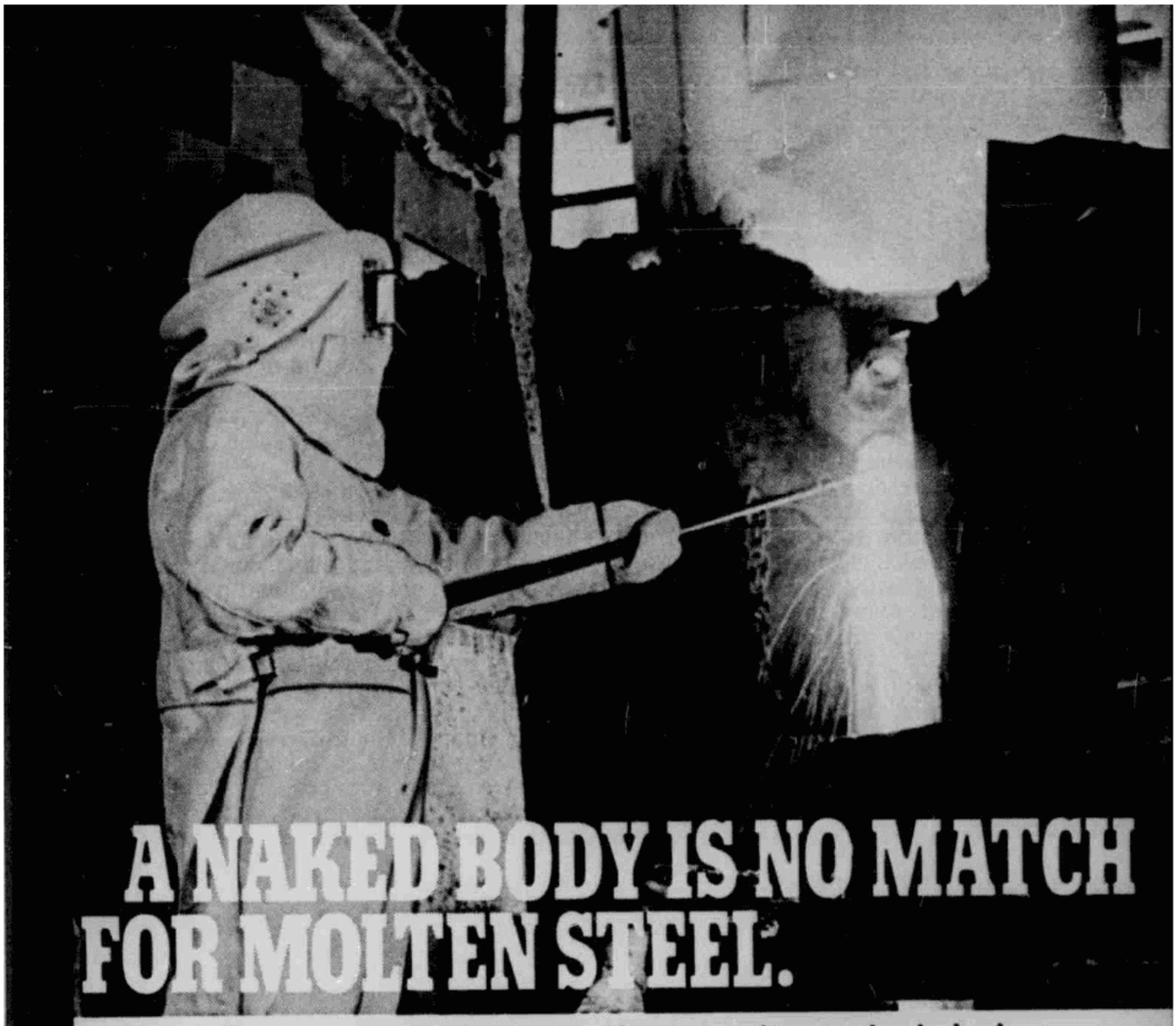
This year (1979) the company celebrates the centenary of the founding of the enterprise, in 1879, by William Fenton and Walter Willson Cobbett.

GAF CORPORATION

In 1978, sales for GAF Corporation from continuing businesses were $1,063.3-million, with after-tax profits of $30.4-million, compared with 1977 sales of $919.5-million and profits of $26.2-million. (These figures exclude results of the business forms operation which is being sold.)

In 1978, earnings were depressed by startup and related expenses of four major facilities, each involving significant costs with limited offsetting

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Mundial Export Corporation, 500 Fifth Ave., New York, N.Y. 10036, U.S.A. **(FOR PORTUGAL)**
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Manfred, Gottesmann, P.O. Box 1252, Tel-Aviv, **ISRAEL.**
Other representatives world-wide.

sales. These had a negative impact on 1978 earnings of approximately $5-million after taxes. The effect on 1979 earnings is expected to be much lower.

GAF continues in its three basic businesses—chemicals, photo and repro and building materials.

In 1978, chemical sales, worldwide, were $248.8-million with direct operating profits of $50.6-million. These figures compare with $200.9-million in sales and operating profits of $45.5-million in 1977.

Photo and repro profits improved dramatically in 1978—$11.7-million on sales of $280.8-million compared with $3.4-million profits on sales of $244.4-million in 1977.

In building materials, 1978 sales stood at $533.7-million, an increase of almost 13% from 1977 sales of $474.2-million. Profits, however, declined slightly from $41-million in 1977 to $39.5-million in 1978. There were three major new building material startups in 1978—in Mullingar, Ireland; Joliet, Illinois; and St. Louis, Missouri—all involving added costs which had not yet been offset by increased production and sales. These combined to depress earnings.

GAF's investment in the future continues at a substantial rate. Capital investment was high in 1977 and 1978—more than $50-million each year—and 1979 plans call for similar amounts to be spent on such projects as a glass mat manufacturing facility in Chester, South Carolina; a roofing plant in Fontana, California; an overall expansion of the company's mineral granules production capacity; a THF manufacturing operation at the joint-venture chemical plant in West Germany; a formaldehyde plant at Texas City, Texas; and a new acetylene derivatives plant in Seadrift, Texas.

International—International sales of GAF products in 1978 were $216.7-million, an increase of 23% from $176.3-million in 1977. These sales include goods produced in the United States and exported, as well as products manufactured in foreign countries.

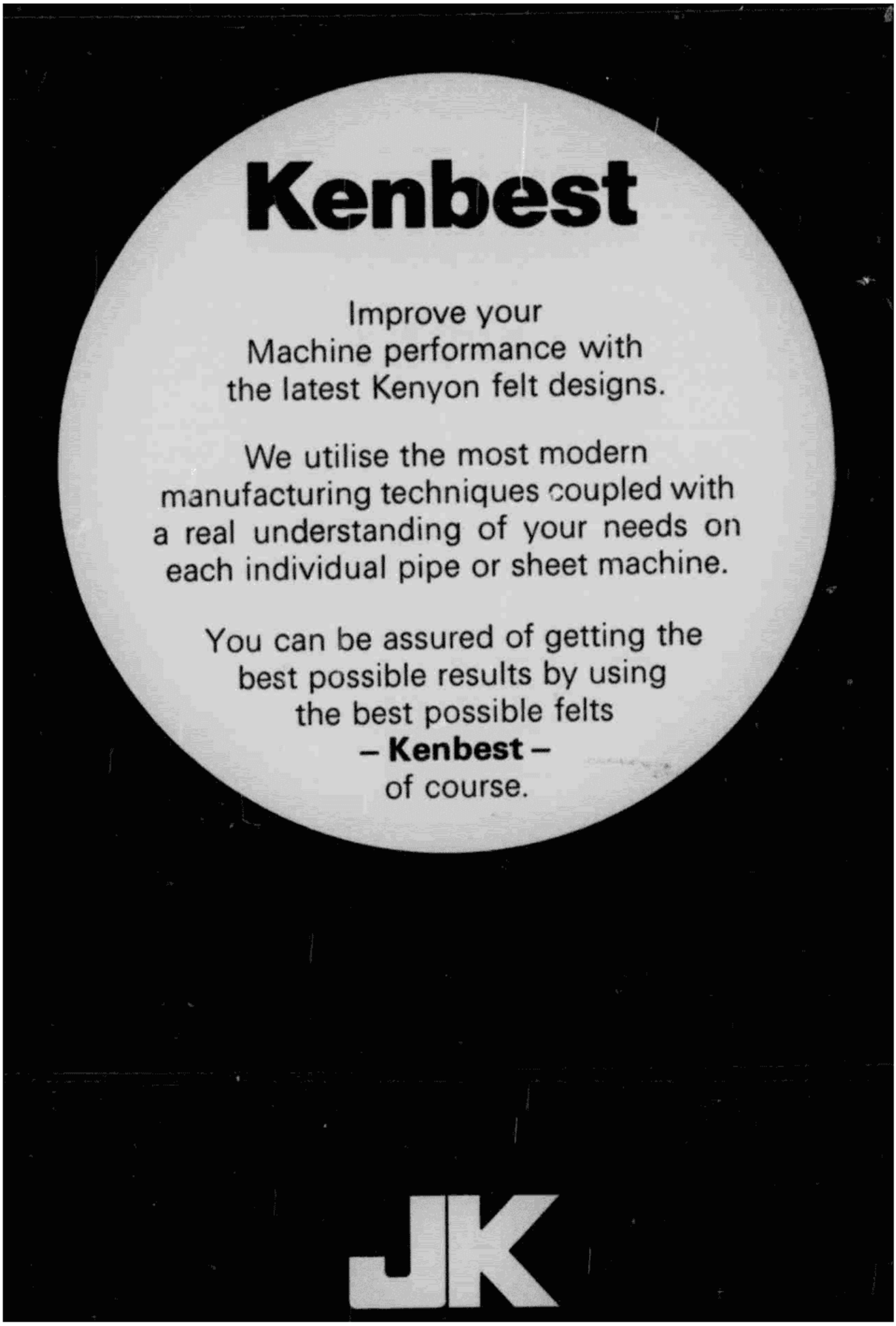
At year-end 1978, GAF employed 16,179 people, of whom 12,982 worked in the United States. Total employment of minority group members at the company's plants and offices increased slightly during 1978 to 16% of the total work force. The number of women in sales and professional positions increased more than 6%. In addition, more than 600 Vietnam veterans were hired during the year.

H. K. PORTER COMPANY, INC.

Record sales and profits were achieved in 1978 by H. K. Porter Company, Inc., a diversified manufacturer. From the previous year, sales increased 14% to $546,950,233 and net income rose 77% to $18,223,557. Net income per share amounted to $15.04 compared to $8.20 in the prior year.

Capital additions amounted to a record $23,523,201. These moneys were invested in the expansion of promising sections of the business and in plant modernizations to make existing operations more competitive. In the coming year it is estimated capital additions for these purposes will amount to some $30,000,000.

Operations of Connors Steel Company and the Missouri Portland



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Cement unit showed the greatest improvements of any divisions in 1978. Specialty Metals, Electrical Products and Industrial Products had good operating results. The Industrial Distribution business showed a loss in 1978 but is expected to improve its performance this year. Sales at Fansteel rose 11% but a drop in operating income was experienced. Sales of the Electrical Division were even with the prior period but pricing pressures on distribution transformers and other electrical apparatus caused a 9% decline in operating income. Tidewater Supply Company sales were off 22%, due primarily to the unsettled conditions in the Virginia-West Virginia coal fields and fewer orders for machinery and related items.

Industrial Products—Many products for industry are manufactured by such Porter divisions and subsidiaries as the Thermoid Division, Alloy Metal Wire Works, Southern Textile Corporation and Pasco Gear & Machine, Inc. . . . The Thermoid Division had record sales in 1978 and the outlook for the future is bright. This trend is being supported by major expansion programs at the hose plant at Bellefontaine, Ohio, the ducting plant at Chanute, Kansas, and continued growth in friction materials facilities. Recent approval by a major automotive company of the new knitted stainless steel wire catalytic converter cushion will open an entirely new market for Thermoid. . . . *Southern Textile Corporation*, a wholly-owned subsidiary of Porter, recently changed its name from Southern Asbestos Company. The new name was chosen to more accurately describe its business as a producer of all kinds of textiles including synthetics, glass, asbestos and combinations of all of these, plus metallic fibers. A complete new line of glass fabrics is being marketed in cloth, tape and yarns. These glass fabrics are an expansion of the many-colored GARDIAN line which includes CLEANGARD, WELDGARD, FIREGARD and SOUNDGARD, to name a few. The Quality Control and Research Laboratories were both modernized and expanded during the year and a contract has been awarded for construction of a new office building to house the Sales, Accounting, Data Processing and Purchasing Departments.

WOODSREEF HALF-YEAR REPORT

Production at the asbestos mines of Woodsreef Mines Ltd. at Barraba and Baryulgil, New South Wales, Australia, totaled 33, 886 metric tonnes in the six months ended April 30, 1979, 12% higher than the same period a year earlier. Fiber shipments rose 29% to 33,753 tonnes and revenue from invoiced sales increased 31% to A$10,633,000. Net trading loss for the half year, at $3,099,000, was an 18% reduction from the loss incurred in the comparable earlier period. Woodsreef Directors state the main cause the company is still operating at a loss is that the value of production continues to be adversely affected by the value of the Canadian dollar.

The Baryulgil Mine was temporarily closed in April and the tailings recovery circuit is presently being installed at Barraba. When completed, the circuit is expected to increase revenue approximately 15%. Firm orders for 1979 are already 25% higher than the previous year and should result in a heavy shipping schedule in the second half of 1979.

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ASBESTOS STOCK QUOTATIONS

Close—July 17, 1979

Abitibi Asbestos	C$.73
Advocate Mines	C$2.50
Armstrong Cork	17¾
Armst. Cork (pfd 3.75)	43½
Asarco	18½
Asbestos Corporation	C$40⅞
Bendix	38
Bendix (pfd 3)	80
Carlisle	21⅜
Cassiar Asbestos	C$11½
CertainTeed	17⅛
Charter Conso.	pence 131
Colt Industries	42⅞
Colt Ind. (pfd 1.60)	34
Colt Ind. (pfd 4.25)	93
Conwest	C$7⅛
Flintkote	38¼
F-kote (pfd-B 2.25)	51½
GAF Corporation	10⅞
GAF (pfd 1.20)	15⅜
Gulf & Western	15⅝
G&W (pfd 2.50)	33⅛
G&W (pfd 3.87)	73⅜
IC Industries	26⅝
IC Ind (pfd 3.50)	43
Johns-Manville	25
J-M (pfd 5.40)	63½
Kennecott Copper	23⅜
Lear Siegler	19¼
Lear Siegler (pfd 2.25)	47
Maremont	41½
McAdam Mining	C$.305
National Gypsum	18⅝
Pathfinder	C$.37
Porter (pfd 5.50)	75¼
Raybestos-Manhattan	28⅞
Rio Algom	C$35½
Rio Algom (pfd 5.80)	Bid C$78.75 Asked C$82.00
Supradur	Bid 4⅝; Asked 5⅜
Union Carbide	38⅞
United Asbestos Inc.	C$3.15
Jim Walter Corporation	34⅜
Jim Walter (pfd 1)	10¼
Jim Walter (pfd 1.60)	37
Woodsreef Minerals	C$.53

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MEN ON THE MOVE

ASARCO INCORPORATED

Stephen P. McCandless, Assistant Treasurer since 1973, was appointed Treasurer for ASARCO Inc., New York City, replacing *Robert J. Plumb* who passed away May 26, 1979. Previously with Shell Oil Company, and then with Kidder, Peabody and Company, Mr. McCandless joined ASARCO in 1971 as a Financial Analyst. The appointment was announced by *Richard de J. Osborne,* ASARCO Executive Vice President and Chief Financial Officer.

CAPE INDUSTRIES LTD.

C. A. Hutchison, Sales Director for Cape Insulation Services Ltd. (CISL), was appointed to the Board of Cape Boards and Panels Ltd. as Director and General Manager, Germiston Operations, England. . . . *S. J. L. Forsey* was appointed to the CISL Board as Operations Director, Wall Division. . . . Appointments to the Board of Cape Building Services Ltd. include *D. C. Butcher* as Director, Spray Division, and *A. Bunting* as Director, Structural Services Division. . . . *R. A. Paine* was named to the Board of Cape Building and Insulation Services Ltd. . . . *B. J. Smith* is now Sales Director and a Member of the Board of Cape Scaffolding Ltd.

EVERITE GROUP OF COMPANIES

Hans Thoeni, Former Deputy Chairman and Managing Director, has returned to Switzerland following his appointment as Chairman of the Everite Group of Companies. He succeeds *Dr. E. J. Schmidheiny,* who has retired. . . . *R. J. Lambson,* Executive Director of Everite Ltd., Johannesburg, Republic of South Africa, has succeeded Mr. Thoeni as Managing Director of the Group.

GAF CORPORATION

Following a Board Meeting mid-July, GAF Corporation issued the surprise announcement that *Philip B. Dalton* had resigned as President, Chief Operating Officer and a Director of the chemical, building materials and photographic products company. He will continue as a Consultant. *Jesse Werner,* GAF Chairman and Chief Executive Officer, has assumed the additional responsibility of President.

KILBORN ENGINEERING LTD.

Mervyn A. Upham was elected Chairman of the Board of Kilborn Engineering Ltd., the Canada-based, international consulting engineering firm. Having reached the normal retirement age of corporate officers, Mr. Upham retired as President of International Minerals & Chemical Corporation (Canada) Ltd. He remains with IMC as Chairman of the Board and Consultant.

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BIRTHDAY GREETINGS to . . .

R.D.N. Somerville, Chief Executive, Turner and Newall Ltd., Manchester, England, September 15.

F. D. Loneragan, Finance Director and Deputy Managing Director, James Hardie Asbestos Ltd., Sydney, New South Wales, Australia, September 16.

Norbert E. Vits, Managing Director, Don International S.A., Manage, Belgium, September 16.

Warren T. Whitley, President and Chief Executive Officer, Cement Asbestos Products Company, Birmingham, Alabama, September 16.

John Blondeau, Central Regional Manager, Carey Canada Ltd., Cincinnati, Ohio, September 17.

D. Michael Pearson, Chairman, BBA Group Ltd., Cleckheaton, West Yorkshire, England, September 18.

Peter N. Berkley, Managing Director, Cape Universal Claddings Ltd., Tolpits, Watford, England, September 20.

Philip M. Malouf, Chairman of the Board and Chief Executive Officer, United Asbestos Inc. and Allied Mining Corporation Ltd., Montreal, Canada, September 21.

C. H. Walters, Chairman, The Griqualand Exploration and Finance Co. (Pty) Ltd., Johannesburg, Republic of South Africa, September 22.

Bernard Lincoln, Director, Asbestos Fibre Laboratory, Turner and Newall Ltd., Manchester, England, September 23.

N. Rhodes, Director and General Manager, Asbestos Textiles Division, TBA Industrial Products Ltd., Rochdale, Lancashire, England, September 24.

Win Brown, Vice President, MacArthur Company, St. Paul, Minnesota, September 25.

Robert M. Gordon, President and Chief Operating Officer, Raybestos-Manhattan, Inc., Trumbull, Connecticut, September 25.

D. W. Jaquays, President, Jaquays Mining Corporation, Phoenix, Arizona, September 27.

Guy W. Fiske, Chairman, Asbestos Corporation Ltd., St. Louis, Missouri, September 28.

Franklin R. Winnert, Executive Vice President and Chief Operating Officer, CertainTeed Corporation, Valley Forge, Pennsylvania, September 28.

E. C. Brown, Director, Materials Chemistry, Ontario Research Foundation, Sheridan Park, Mississauga, Canada, October 3.

John J. Charles, Sales Representative, Southern Textile Corporation, Charlotte, North Carolina, October 5.

John G. Cole, Mine Manager, Advocate Mines Limited, Baie Verte, Newfoundland, Canada, October 5.

Douglas E. Berlin, Sales Representative (Far East), Asbestos Fiber Division, Johns-Manville Sales Corporation, Denver, Colorado, October 8.

G. Truedson, Managing Director, Svenska Bromsbandsfabriken AB, a principal subsidiary of Cape Industries, Ltd., Langsele, Sweden, October 9.

E. L. Alexander, Manager-Engineering, Cassiar Asbestos Corporation Ltd., Vancouver, B.C., Canada, October 11.

G. P. Valgardson, Sales Office Administrator, Cassiar Asbestos Corporation Ltd., Vancouver, B.C., Canada, October 11.

J. W. Rawlings, Vice President and Product General Manager, Union Carbide Corporation, Metals Division, Niagara Falls, New York, October 12.

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TYVEK® guards against asbestos dust and particles while it cuts troublesome clothing maintenance.

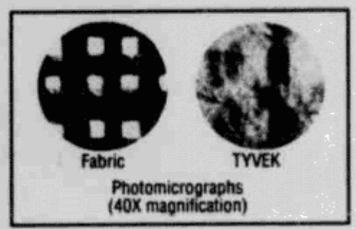
Disposable protective coveralls of Du Pont TYVEK* spunbonded olefin provide workers with an effective barrier against hazardous particulate matter.

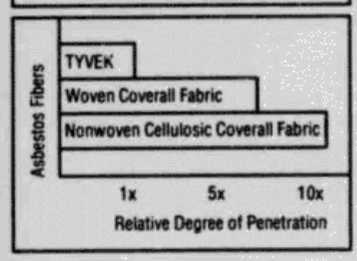
As the photomicrographs and chart below show, the unique nonwoven construction of TYVEK results in a barrier that is several times superior to conventional fabric for asbestos holdout. Coveralls of TYVEK are used by the U.S. Navy in asbestos "ripout" operations under OPNAVINST 6260.1A.

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*Du Pont registered trademark.
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British 1,531,205—low-phenolic-resin clutch facings having good resistance to vibration on initial engagement are made by fabricating, curing, and grinding to a smooth surface an asbestos string which has been impregnated with 14-24% by weight of a resole resin or novolak resin and 1-8% of graphite; assigned to Aisin Seiki K.K., November 8, 1978; 3 pages.

British 1,531,573—a bituminous composition for coating tunnel walls, roof surfaces, brickwork, and the like is formed by spraying the substrate with (1) a bitumen emulsion, (2) a suitable fibrous inorganic material such as glass fibres, crushed asbestos, or the like, and (3) Wyoming bentonite, which breaks the emulsion immediately and drains or evaporates the emulsion water promptly, thereby making the coating resistant to the influences of weather and temperature; R. Blasczyck and K. Muller; assigned to Shell Internationale Research Maatschappij B.V., November 8, 1978; 2 pages.

British 1,541,013—fiber-reinforced thermoplastic polymer gasket sheets are made by mixing a curable dough with asbestos and a solvent system, extruding and pelletizing the mixture, rolling the pellets onto one face of a band and drying the coating, rolling on additional material, drying the composite layer, stripping the dried layer from the band, and consolidating and curing the layer; H. Thornley; assigned to TBA Industrial Products Ltd., February 21, 1979; 6 pages.

British 1,543,496—asbestos fiber bundles are opened and defiberized by humidifying the crude bundles and then passing the plastic but compact mass through a roll-type rotary press or the like, where only shear stresses are applied, whereby the fibers remain free to orient within the plastic mass without impact or bending stresses; A Gosseye; assigned to Eternit, April 4, 1979; 8 pages.

British 1,543,631—a non-hardening mastic having good adhesive power, the ability to adhere to wet surfaces, and constant volume consists of a mixture of optimum proportions of asbestos, liquid asphalt, liquid gum, turpentine, an emulsifying agent, liquid acrylic resin, granulated cork, and expanded polystyrene balls; assigned to Micotex Tagkit ApS April 4, 1979; 2 pages.

U.S. 4,150,189—a composition for molding into trough liners or like shapes for use in contact with molten aluminum comprise (1) 30-55 parts by weight of calcium aluminate cement, (2) 2-25 parts of Chrysotile asbestos, (3) 10-35 parts of diatomite or other aluminum-compatible inorganic filler, (4) 0.5-5 parts of cryolite, (5) water, and (6) optionally, 10-30 parts of synthetic aluminosilicate fibers; W. G. Pusch; assigned to Johns-Manville Corporation, April 17, 1979; 4 pages.

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VALUABLE LITERATURE

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DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS, FIFTH EDITION—By N. Irving Sax; industrial research guide covering nearly 15,000 common industrial and laboratory materials; contains over 10,000 entries of basic toxicologic information; identifies 1,000 materials and their chemical incompatibilities; concisely summarizes such information as synonyms, description, formula and physical constants for each material; includes a hazard analysis of toxicity, flammability, explosiveness and disaster potential plus a complete explanation of countermeasures to reverse or mitigate possible effects; lists sections on Asbestos Particles, Blue (Crocidolite) Asbestos, Brown (Amosite) Asbestos and White (Chrysotile) Asbestos. [Van Nostrand Reinhold; 1136 pages; $54.50]

ELECTRICAL INSTRUMENTS IN HAZARDOUS LOCATIONS, THIRD EDITION—By E. C. Magison; provides guidance for selection, use and design of electrical instruments in locations classified hazardous in accordance with Article 500 of the National Electrical Code; summarizes principles and background data pertinent to common methods of preventing explosions; covers standards and regulations outside the United States and recognizes important changes in U.S. rulings since 1972; updates data on explosion-proof housings, purging, restricted breathing, intrinsic safety and dust hazards. [14 chapters; $35.00; order directly from Instrument Society of America, 400 Stanwix Street, Pittsburgh, Pennsylvania 15222]

PROCEEDINGS OF FIRST WORLD CONGRESS ON WATER IN MINES AND UNDERGROUND WORK (SIAMOS)—Congress held September 1978 in Granada, Spain; contains contributions by specialists from 24 countries; Volumes I and II contain the full text of the selected papers (70% in English), with an English, French and Spanish summary, classified in six topic sections; Volume III contains reports by chairmen, opening and closing speeches and addresses of all participants. [Sponsored by Superior Council of Colleges of Mining Engineers, National Association of Mining Engineers in Spain; 1550 pages; $80.00]

CARCINOGENICITY TESTING—Edited by A. D. Dayan and R. W. Brimblecombe; answers current major concerns about the possible toxic effects of chemicals on man, whether he takes the compound as a medicine or in his food or is exposed accidentally or incidentally by contamination of the environment; provides fundamental information of importance in developing practical, confident systems for detection of a particular toxic hazard, i.e., carcinogenicity. [University Park Press; 140 pages; $19.50]

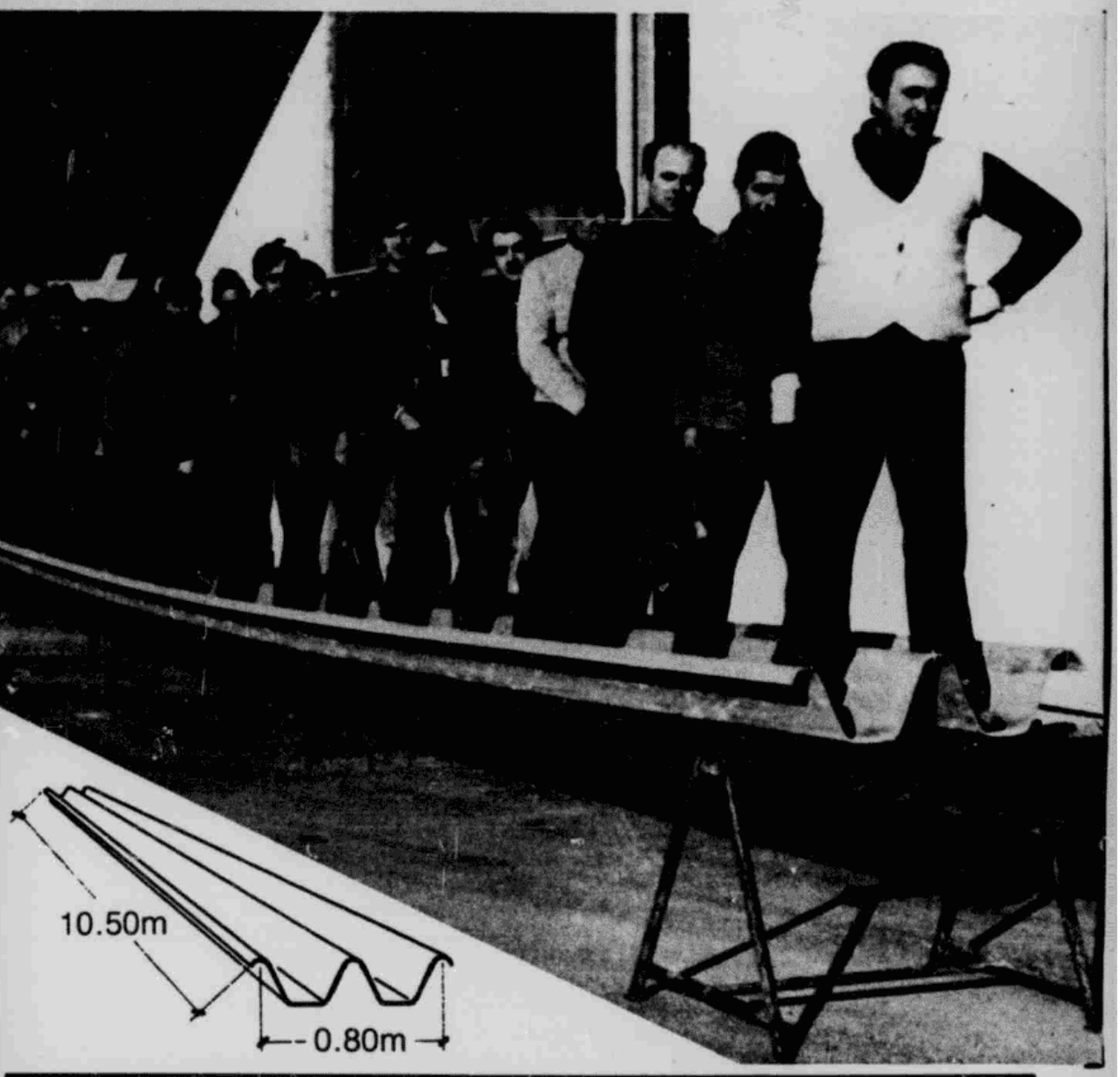
PROCEEDINGS OF SOCIETY OF EXPLOSIVES ENGINEERS CONFERENCES, 1975 TO 1978—Keeps those in the explosives profession abreast of current regulations and technologies; representation of papers is international, dealing with mining, demolition, construction, etc. [Society of Explosives Engineers—$25.00 per Proceeding; $65.00 per set of four Proceedings covering the years 1975 through 1978]

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+ cement

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CALENDAR OF EVENTS

TAX ASPECTS OF LITIGATION—A course of the Practising Law Institute; Hyatt Regency Hotel, San Francisco, California, *September 6-7.*

UNIVERSITY OF NEVADA—Courses sponsored by the Mackay School of Mines at Reno, Nevada: Open Pit Mining—*September 10-14;* Advanced Geostatistics—*September 11-14;* Open Pit Electrics—*September 17-21;* Mining Law—*September 21-22;* The Sampling of Particulate Materials—*October 1-5.*

UNIVERSITY OF WISCONSIN—Extension Courses at Madison, Wisconsin: Energy Systems—*September 10-14;* Avoiding Bin and Hopper Flow Problems—*September 17-18;* Energy Design and Analysis—*September 17-21;* Selecting and Using Adhesives—*October 8-9.*

CURRENT BLASTING PRACTICE—Seminar presented by Precision Blasting Services at Pittsburgh, Pennsylvania, *September 11-13.*

OPERATION, CONTROL AND MANAGEMENT OF ACTIVATED SLUDGE PLANTS TREATING INDUSTRIAL WASTEWATERS—Seminar announced by Vanderbilt University; *September 12-14* in Toronto, Ontario; *October 23-25* in Philadelphia, Pennsylvania; *November 14-16* in Puerto Rico; *January 8-10* in Tampa, Florida.

THERMAL INSULATION ASSOCIATION OF CANADA—17th National TIAC Conference; Laurel Point Hotel, Victoria, British Columbia, *September 12-16.*

INSULATION CONTRACTORS ASSOCIATIONS MEETINGS—EASICA Fall Meeting, *September 13-14* at the Dunfey Hyannis Hotel, Hyannis, Massachusetts; NYSICA Fall Meeting, *September 20-22* at Peak & Peak, Clymer, New York; WICA Convention, *September 23-26* at the Rancho Bernardo Inn, San Diego, California.,

INDUSTRIAL EXHAUST VENTILATION: ENGINEERING CONTROLS—A course at the George Washington University, Washington, D.C., *September 17-19.*

INDUSTRIAL HYGIENE SAMPLING AND ANALYSIS—Conference co-sponsored by the Utah Section of the American Industrial Hygiene Association and the Rocky Mountain Center for Occupational and Environmental Health, University of Utah; Tri-Arc Travel Lodge, Salt Lake City, Utah, *September 17-20.*

FILTRATION: RESEARCH, INNOVATION, APPLICATION—World Congress of the European Federation of Chemical Engineering; Cunard International Hotel, London, England, *September 18-20.*

MINE RESCUE AND FIRST-AID—National Contest held by the Mine Safety and Health Administration, U.S. Department of Labor; Fair and Exposition Center, Louisville, Kentucky, *September 20-21.*

1979 MINING CONVENTION—Sponsored by the American Mining Congress; Los Angeles, California; *September 23-26.*

COLLOIDS AND SURFACES—Intensive Course sponsored by Carnegie Institute of Technology and the Mellon Institute of Science; Carnegie-Mellon University, Pittsburgh, Pennsylvania, *September 24-28.*

HYDROTRANSPORT 6—6th International Conference on the Hydraulic Transport of Solids in Pipes, organized and sponsored by BHRA Fluid Engineering; Canterbury, England, *September 26-28.*

AMERICAN INSTITUTE OF PLANT ENGINEERS—Annual Conference and Trade Show of AIPE Eastern Region; Convention Hall, Atlantic City,

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New Jersey, *September 27-29.*

ELECTRICAL/ELECTRONICS—International Conference and Exposition sponsored by the Canadian Region of the Institute of Electrical and Electronics Engineers; Exhibition Place, Toronto, Ontario, *October 2-4.*

ASSOCIATION OF ENGINEERING GEOLOGISTS—1979 Annual Meeting on the state-of-the-art in engineering geology; McCormick Inn, Chicago, Illinois, *October 2-6.*

McCRONE RESEARCH INSTITUTE—Courses at the Holiday Inn, Swiss Cottage, London, England: Identification of Asbestos—*October 8-9;* Monitoring and Counting of Asbestos Fibers—*October 10;* The Hazards of Gases and Particulates in the Industrial and Public Environment—*October 19;* Sample Preparation for X-Ray Diffraction, X-Ray Fluorescence and Infra Red Spectroscopy—*October 25.*

10TH WORLD MINING CONGRESS—Organized by the Turkish National Committee of WMC; Istanbul, Turkey, *October 8-12.*

28TH GEOMECHANICS COLLOQUY—Held by the Austrian Society for Geomechanics; Congress Hall, Salzburg, Austria, *October 18-19.*

4th INTERNATIONAL FAIR OF NORTHERN ARGENTINA—Cooperative venture of private enterprises, the Government of the Province of Salta, and others; held to promote foreign trade relations; Salta, Argentina, *October 18-28.*

4TH INTERNATIONAL CONFERENCE ON ASBESTOS—Will cover economic geology, geology and mineralogy, chemistry and physics, mining, recovery and refining, industrial uses, quality control and environmental aspects; Torino, Italy; *May 26-30, 1980.*

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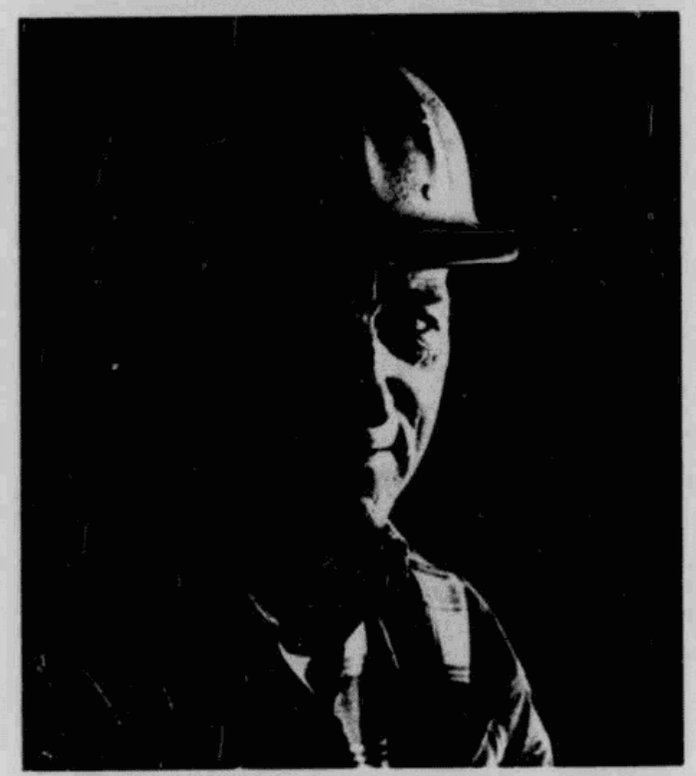
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