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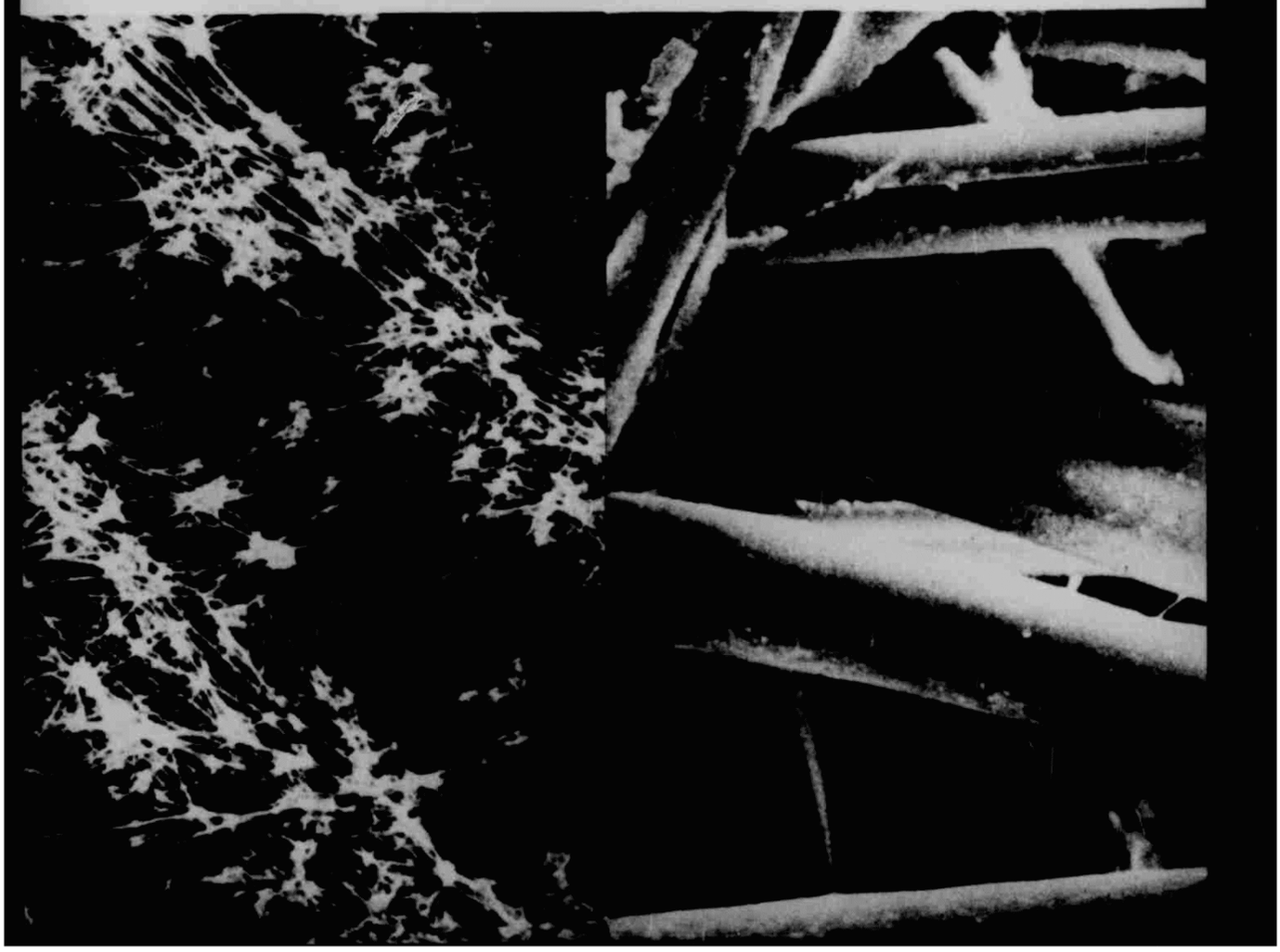
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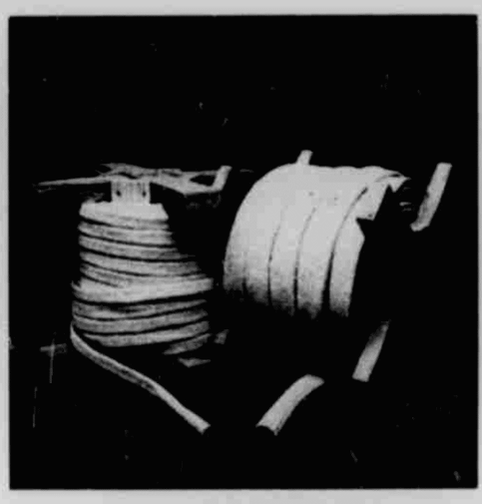
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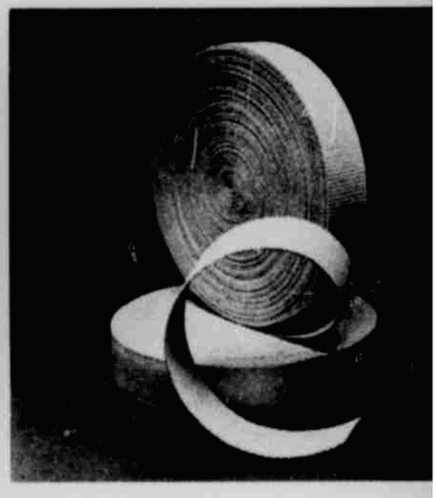
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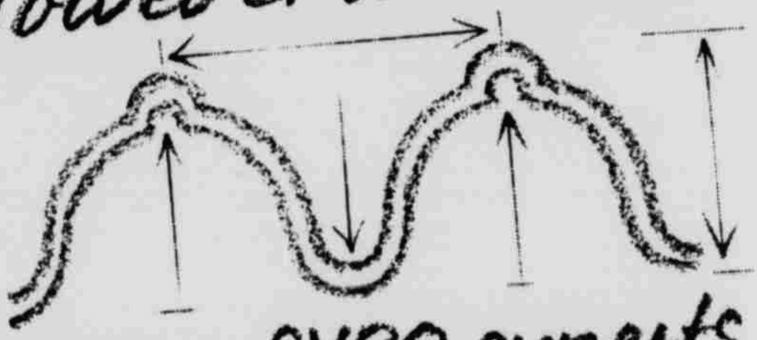


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ASBESTOS

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PTFE MEMBRANES IMPROVE FILTER BAGS

Recent years have witnessed tremendous growth in the use of high volume air filtration systems for removing particulates from in-plant air and for prevention of particulate discharges into the surrounding atmosphere. Many such systems involve the use of baghouses—arrangements of fabric or felt bags through which the air is forced, trapping particulates on the dirty air surface of the bags and discharging cleaned air through the bag walls.

Because of the many variables involved, there is no simple way to express the efficiency of any such system. However, there are several factors which obviously affect the costs of operation and which, if changed for the better, can result in operational cost savings with no adverse effect on the desired function of the system.

For example, a typical fabric or felt filter material will have many interstices considerably larger than the smallest particle it is intended to remove from the airstream. However, the arrangement of these interstices is such that most particles will be trapped instead of passing through the material. After a short period in service, this entrapment will cause a build-up of particles within and on the surface of the material and prevent further escape of even very tiny particles. While this entrapment and build-up increases the efficiency of the material as a filter, it also impedes the flow of air through the material and hence decreases the volume filtering capacity of the system. When the build-up increases to a certain point, it must be removed to permit sufficient airflow for proper functioning of the system. At this point, some particulates such as asbestos fibers will have formed a rather dense, clinging cake which can be broken up and dislodged only by rather severe mechanical shaking or by other means which can result in shortened bag life. After such cleaning, there will be a period of clean-bag operation during which *some* particulates will pass through the filter, resulting in a slightly contaminated discharge. This undesirable condition will prevail until formation of a new cake reaches the point where the desired degree of filtration is achieved.

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Attempts to improve the efficiency of baghouse filter systems have necessarily involved much effort to develop bag materials which will provide superior filtration with a minimum resistance to air flow and which will maintain these properties over extended periods by minimizing the build-up of cake on the filter surface.

One of the most promising of these developments to date involves the employment of a microporous membrane with a felt or fabric backing. The success achieved is largely due to the unique characteristics of the GORE-TEX® membrane, an expanded polytetrafluoroethylene (PTFE) produced by W. L. Gore & Associates, Inc., of Elkton, Maryland.

Ordinary PTFE is chemically inert, nonflammable, non-aging, weather durable, has a low coefficient of friction and is useful at temperatures from −450°F to 550°F. The expansion process retains all these basic properties and can be controlled to provide a desired degree of porosity (0% to 95%) and pore size. The expanded membrane is hydrophobic, air permeable, has low cold flow and shrinkage, minimal creep, high strength and a relatively smooth and slippery surface.

The GORE-TEX membrane is bonded to the dirty air side of a typical polyester, Nomex® or acrylic filter felt or glass fabric which acts as a carrier or strength member. In operation, the tiny size of the pores in the membrane causes filtration to take place on the surface of the membrane with build-up of only a very thin layer of particulate. Due to the excellent release properties of the PTFE, any build-up beyond a certain thickness will fall off of its own weight, rendering the filter practically self-cleaning. Hence, such a filter can operate for extended periods at near clean bag conditions.

Figure 1 shows an oblique section of a GORE-TEX membrane bonded to a polyester felt bag and used in collection of alumina dust. Note the uniform layer of dust on the surface of the membrane and the absence of dust in the interstices of the felt. *Figure*

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Nomex® —DuPont Registered Trademark

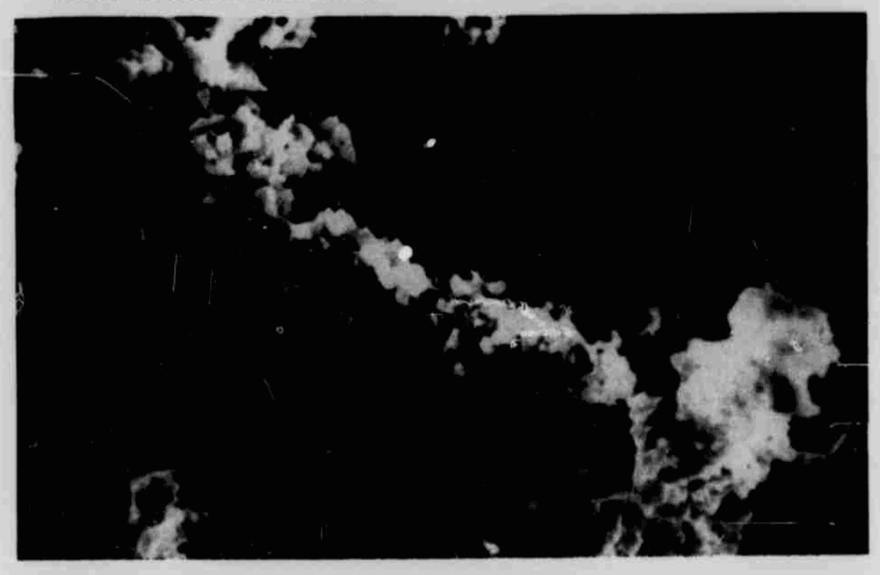
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CROSS SECTIONS OF A GORE-TEX MEMBRANE FILTER BAG AND A TYPICAL POLYESTER FELT FILTER BAG IN ALUMINA DUST COLLECTION

—Figure 1—
GORE-TEX MEMBRANE POLYESTER FELT
700X OBLIQUE SECTION



—Figure 2—
TYPICAL POLYESTER FELT
700X CROSS SECTION



2 shows a cross section of a plain polyester felt bag used in the same application. Note the amount of dust present and the depth to which it has penetrated before being trapped.

GORE-TEX filter bags have been in service for extended periods in certain asbestos plants with notable success. For example, in a collector at Evers, France, conventional bags, after a short time in service, showed a pressure drop of 250 mm of H_2O across the filter whereas GORE-TEX bags, after some 1½ years service in the same collector, showed a pressure drop of only 150 mm of H_2O with a discharge to employee work areas of 0.6 fibrils/cm³.

In another of the largest processors of asbestos in France, pressure drop with the GORE-TEX bags stabilized at 100 mm of H_2O versus a drop of 280 mm of H_2O registered with conventional bags. Total discharges are on the order of 0.3 mg/m³ as compared to the previous 50 mg/m³.

In the United States, in one carding operation application, GORE-TEX bags are still operating satisfactorily after 18 months service whereas the life of conventional bags in the same collector was from 3 to 4 months.

Additional data are being compiled for other actual installations but, in many cases, final figures are not available since the GORE-TEX bags have not yet reached the end of their useful life. In general, however, it is already known that pressure drops have been reduced by from 20% to 50% (and much more in certain cases) and that bag life increases, on the order of ten times, are not unusual.

It, therefore, appears that the expanded PTFE membrane filter bag represents a substantial advance in the state of the art and should lead to economies of equipment and operating costs in many of the more severe baghouse applications.

THE COVER: *Structure of the GORE-TEX Membrane (left) vs. that of Polyester Felt (right), magnified 1000x.*

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FOR AND ABOUT COMPANIES

REPORT ON SMALL BUSINESS

According to the Committee on Small Business, U.S. House of Representatives, *small business is in serious decline* and unless direct and concerted action is taken now to reverse this trend, the decline will have disastrous consequences for the American economy. The committee recommends tougher antitrust enforcement, a two-tier regulatory system and extensive tax law changes. It is urged that the Federal Trade Commission and the Department of Justice develop, for submission to Congress, *affirmative legislative proposals to stop and reverse the continuing decline.* All government agencies are called on to begin or increase efforts to prevent regulations from having a disproportionate economic impact on small business and to reduce the paperwork burden. The federal agencies are directed to help small business achieve a greater share of federal procurement contracts and to develop tax legislation which further graduates the corporate tax rate and specifically targets small business to receive preferential capital gains treatment. According to economists who testified before the committee, from ⅓ to ½ of the U.S. economy is controlled by monopolistic or oligopolistic industries and the concentration is heaviest in the manufacturing sector where 162 firms control 55% of all manufacturing assets. Small business is credited with accounting for over 98% of the net job growth in the private sector between 1969 and 1976. A copy of the full report, at $2.00, is available from the Small Business Legislative Council, 1604 K Street, N.W., Washington, D.C. 20006.

EPA "BUY AMERICAN" PLAN

The Municpal Construction Division of the U.S. Environmental Protection Agency has issued a draft guidance document to assist Regional Water Division Directors and their staffs to implement the *"Buy American" provisions of the Clean Water Act.* One of the requirements in the Act is that preference be given to the use of U.S. products in wastewater treatment plant and related construction. The provision requires that domestic construction material preferences may be given up to a cost differential of 6% of the bid price (including delivery and duty) of foreign materials. A construction material would be considered domestic only if: (1) it has been manufactured in the United States; (2) it has been made substantially from articles, materials or supplies mined, produced or manufactured in the U.S.; and (3) the cost of its U.S. components exceeds 50% of all component costs. The requirement could be waived if Regional Administrators determine that necessary proj-

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ect materials or product components are not available in commercial quantities and of a satisfactory quality in the U.S. About a year ago, the *Association of Asbestos Cement Pipe Producers* questioned the applicability of the requirements to asbestos-cement pipe products. At that time, it was the interpretation of EPA Headquarters that, because of the relatively expensive, foreign-supplied asbestos component, a/c sewer pipe would be exempt from the 50% U.S. component cost formula and would be eligible as a domestic construction material. The proposed guidance document goes one step further by specifically isolating asbestos as a component that is domestically unavailable, and thus one which would be treated as a component made in the United States. [AACPP HEGA Report]

RAYBESTOS FIGHTS INFLATION

Raybestos Manhattan Industrial Products Company, North Charleston, South Carolina, a division company of Raybestos-Manhattan, Inc., has initiated a program committed to the fight against inflation. Consequently, RMIPCo is concentrating its efforts on cost reduction programs, not on passing through the next price increase; and is beginning to say "no" to suppliers whose services and products contribute to higher costs but do not provide an increase in value.

BELL ENGINEERING MACHINES IN THAILAND

Bell Engineering Works Ltd., Kriens, Switzerland, a member of the Sulzer Group, recently received an order from the *Siam Fibre Cement Company,* Bangkok, Thailand, for the delivery, assembly and start-up of three plants for the manufacture of corrugated, asbestos-cement, facade and roofing sheets. The fully-automated production units permit a total annual output of 12,000 metric tonnes.

DON NEGOTIATES WITH FRAS-LE

Don International Ltd., a member of the Cape Group of Companies, has entered into a £500,000 licensing agreement with *Fras-le S.A.,* Caxias do Sul, a leading friction materials manufacturer in Brazil. Fras-le employs some 900 people and produces a full range of original equipment and replacement products for passenger cars and commercial vehicles. The venture is happening at a time when several international automotive vehicle manufacturers are establishing assembly plants in Brazil. This is Don International's 18th licensing or manufacturing agreement and the first such pact negotiated by Don in South America. Further

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licensing agreements are being negotiated in various strategic areas of the world.

JAMES HARDIE ACQUIRES REED CONSOLIDATED

Last October, *James Hardie Asbestos Ltd.* acquired *Reed Consolidated Industries Ltd.*, thereby creating one of the largest diversified groups in Australia. Both companies have been in the building and pipeline businesses for several years and RCI's offshore activities fit in well with Hardie's overseas development plans. Areas of diverse interests include friction materials, paper and packaging, brake service and leisure and pleasure products and services. A brochure entitled "In Company," available from James Hardie Asbestos, explains Hardie/RCI's current capabilities and products and indicates the direction in which future development will proceed.

PRODUCT SAFETY GUIDELINES

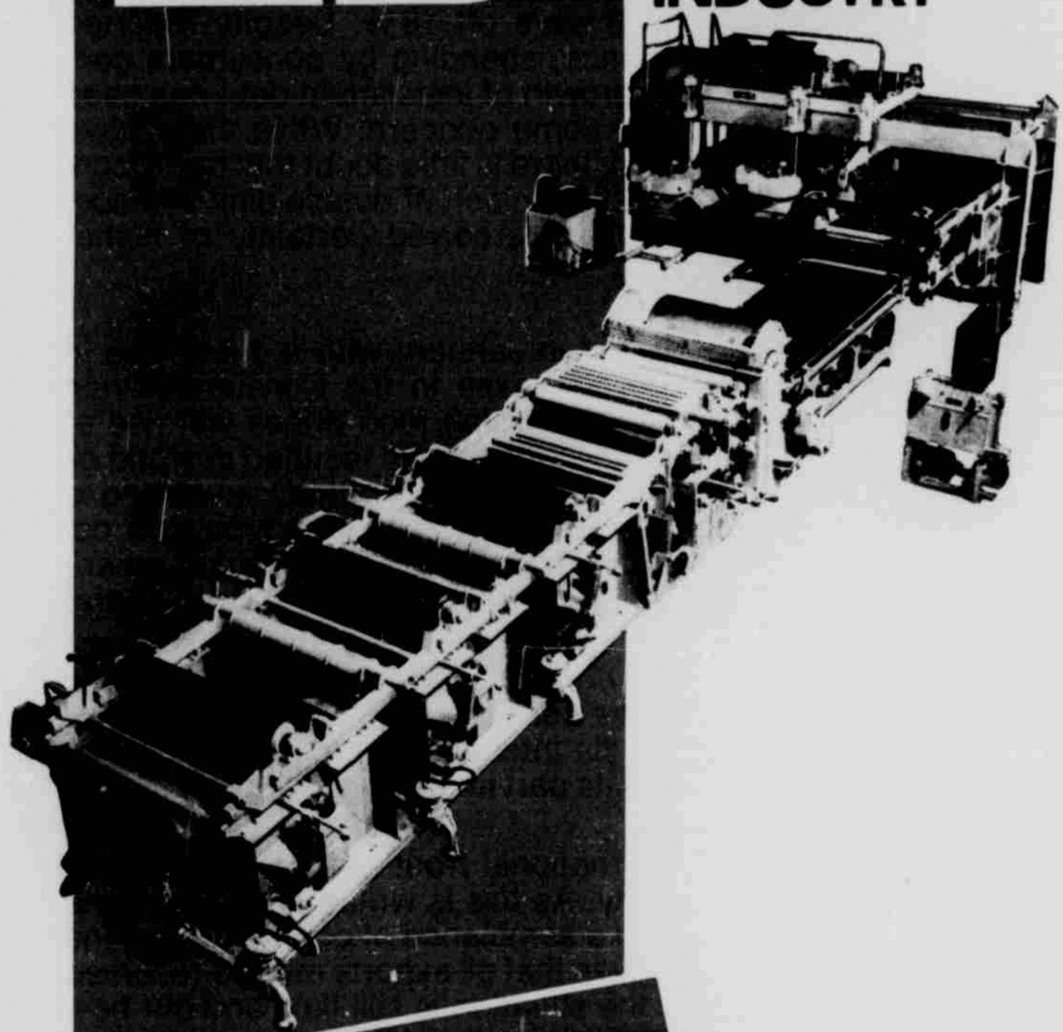
Guidelines intended to assist manufacturers organize programs to improve the safety of their products have been revised by the *Consumer Council* and published by the *American National Standards Institute.* The new edition of the 1972 publication expands the checklist of product safety elements recommended for consideration in planning adequate safety management. It covers policy, organization and staffing, planning, communications, records and reports, design, production, sales, service, use and insurance. A copy of "Guidelines for Organizing a Product Safety Program," ANSI Consumer Publication 2, is obtainable, at $1.25, from the ANSI Sales Department, 1430 Broadway, New York, New York 10018.

KEYSTONE SALE TO LONE STAR TERMINATED

The proposed sale by *Keystone Portland Cement Company* of all its assets to *Lone Star Industries, Inc.*, has been terminated at the initiation of Lone Star. The decision followed notification by the U.S. Federal Trade Commission that it had initiated imminent legal action to prevent the sale. Keystone, which will continue as an independent operating company, owns and operates a cement plant at Bath, Pennsylvania, and has executive offices in Allentown, Pennsylvania. Lone Star, headquartered at Greenwich, Connecticut, is a major U.S. cement producer and a leading distributor of building materials through retail home care centers.

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MARKET CONDITIONS

GENERAL BUSINESS

General business has held up quite well through the first two months but final figures for January indicate a slowing in the economy may already be underway. Employment rose in January and unemployment declined slightly to a level of 5.8%. However, personal income rose only 0.4% compared to 1% rises in the two preceding months, housing starts dropped 20% to a 1,656,000 annual rate and housing permits were off 18%. Despite reported declines in consumer confidence, spending by consumers continues at a high level and the growth of installment debt has been so rapid as to be a cause for some concern. While there have been no signs of a buying panic, there is little doubt that many consumers, beginning to really feel the pinch of double-digit inflation, are buying now to counter their perceived certainty of higher prices in the near future.

Inflation continued unabated in January with a 1.4% rise in wholesale prices and a 0.9% increase in the Consumer Price Index. Present indications are that retail food prices will rise at least 10% this year. The Iranian situation has resulted in world oil prices substantially higher than the official OPEC level and a number of domestic refiners have taken steps to reduce their deliveries of refined petroleum products to the U.S. market where prices of gasoline and home heating oil have already risen appreciably.

The level of interest rates remains high and the Federal Reserve Board has indicated its intention to further restrict the growth of the money supply as its part in the fight against inflation.

Developments on the international front are over-shadowing those in the domestic economy. As this is written, it appears the Khomeini regime has achieved a semblance of control of Iran and some indications have been given that oil exports may be resumed about mid-March. However, the situation is still fluid and our best hope is that the spread of instability to other Mideast countries can be avoided. Meanwhile, Chinese forces are pushing further into Vietnam and China has indicated its intention of permanently occupying certain borderlands which have been in dispute for some time. As in the case of the Mideast, the one best hope at present is that the dispute will not lead to the involvement of any other countries.

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HOUSING & CONSTRUCTION

YEAR 1978—"Strong and steady" describes the way the construction industry finished 1978, according to the F. W. Dodge Division of McGraw-Hill Information Systems Company. December contracts for new construction totaled $10.2-billion, bringing the annual value of newly-started construction projects of all kinds to $158.4-billion, a gain of 13% over the 1977 amount. After adjustment for last year's "double digit" inflation, however, the physical volume of construction contracting in 1978 increased only between 2% and 3%. The seasonally-adjusted Dodge Index (1967 = 100) recorded 303 in December, compared with 285 in November and 319 in October. The yearly average was 287.

Nonresidential building contracts for the year were valued at a record $44.4-billion, topping the 1977 amount by 26%. A gain of better than 50% in contracting for commercial and industrial building was the source of all the expansion in 1978 in this category. *Residential building contracts*, for the year as a whole, gained 20% in value at $74.5-billion for newly-started housing. Due to a sharp cutback in nuclear power plant construction last year the 1978 total of all *nonbuilding construction* declined to $39.5-billion, down 7% from the 1977 peak. Sewer and water construction showed a solid gain last year, while highway contracting advanced only nominally.

George A. Christie, Dodge Vice President and Chief Economist, pointed out that "in 1979 employment and output of the construction industry will remain strong, as the near record number of projects started in 1978 are brought to completion. Contracting for new work, however, is bound to weaken in this year's restrictive environment."

MOTOR VEHICLE FACTORY SALES

YEAR 1978—Motor vehicle factory sales from plants in the *United States* totaled 12,871,429 during the year 1978 compared with 12,642,370 in 1977. The breakdown for the latest annual period is 9,165,190 passenger cars (down 35,659) and 3,706,239 trucks and buses (up 264,718).

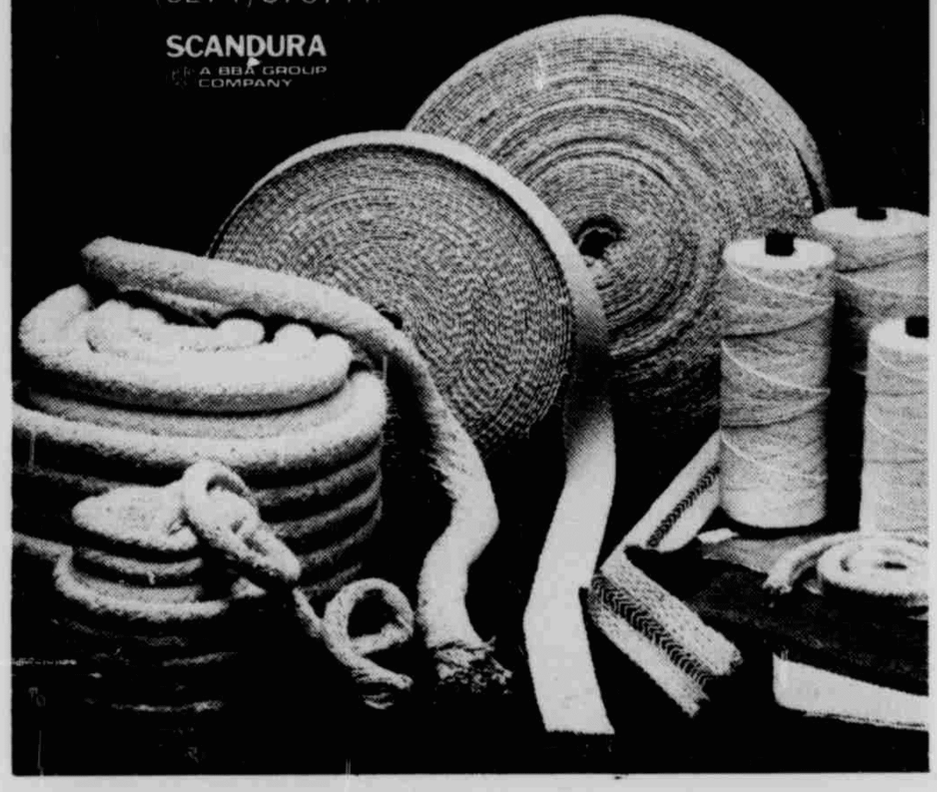
Factory sales from plants in *Canada* reached 1,789,872 in 1978 compared with 1,761,185 the prior year. [Motor Vehicle Manufacturers Association of the United States, Inc.]

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PRODUCTION—IMPORTS—EXPORTS

AUSTRALIAN IMPORTS & EXPORTS

For the *Six Months Ended December 1978*, Australia *imported* 19,521 metric tonnes of asbestos valued at A$8,593,969, down 40% in quantity and 43.4% in value from the like half-year to December 1977. The breakdown by variety of asbestos for the latest period (with comparative year-earlier figures in parentheses) is: Chrysotile, 11,456 tonnes valued at $5,229,584 (13,271 tonnes, $6,357,898); Amosite, 5,567 tonnes valued at $2,338,981 (9,579 tonnes, $4,412,110); Other, 2,498 tonnes valued at $1,025,404 (9,875 tonnes, $4,423,325). Total quantities for the prior like six-month periods are: 32,725 tonnes valued at $15,193,333 to December 1977; 31,059 tonnes valued at $11.7-million to December 1976; 26,085 tonnes valued at $8.1-million to December 1975 and 26,452 tonnes valued at $4.8-million to December 1974. . . . *Exports* of all types of asbestos for the half-year to December 1978 reached 16,237 tonnes valued at $6,612,898, an increase of 43.8% in quantity from the comparable 1977 period but a decrease of 32.4% in value. Exports for past like periods are: 11,289 tonnes valued at $9,789,021 to December 1977; 16,377 tonnes valued at $5.9-million to December 1976; 14,200 tonnes valued at $5.5-million to December 1975 and 9,196 tonnes valued at $1.5-million to December 1974. [Commonwealth Bureau of Census and Statistics, Canberra]

CANADA'S FLOOR TILE OUTPUT

Production of vinyl-asbestos floor tile by Canadian manufacturers for the *Year 1978* reached 39,815 metric tonnes, compared with 40,521 tonnes in 1977, 48,133 tonnes in 1976 and 43,111 tonnes in 1975. *Shipments* totaled 38,716 tonnes in 1978 against 40,394 tonnes in 1977, 44,636 tonnes in 1976 and 46,032 tonnes in 1975. The list of reporting firms include American Biltrite Rubber Co. (Canada) Ltd., Sherbrooke, Quebec; Armstrong Cork Canada Ltd., Montreal, Quebec; Domco Industries Ltd., Farnham, Quebec; and The Flintkote Co. of Canada Ltd., Toronto, Ontario. [Statistics Canada, Ottawa]

FELT SHIPMENTS FROM CANADA

Canadian shipments of asbestos, cotton and synthetic dryer felts and fabrics for the *Year 1978* totaled 511,236 square meters, valued at C$18,181,496. This compares with 460,375 sm valued at $15.4-million in 1977 and 429,682 sm valued at $12.5-million in 1976. Shipments of woven and/or needled wet felts and jackets (including felts used in asbestos-cement pipe or sheet-forming operations) reached 985,679 kilograms in 1978, valued at $37,904,678. Prior shipments were 988,115 kg valued at $33.4-million in 1977 and 287,700 kg valued at $8.7-million in 1976. Reporting firms for the year 1978 (one in Nova Scotia, four in Ontario and eight in Quebec) were Albany Felt of Canada Ltd. (including Capital Wire),

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Asten-Hill Ltd., Ayers Ltd., Drytex Ltd., Huyck Canada Ltd., Johnson Wires, Lockport Felts Ltd., Niagara Quebec Wires, Porritts & Spencer (Canada) Ltd., Scapa Dryers (Canada) Ltd. and SNA International [Statistics Canada,Ottawa]

CANADIAN ASBESTOS FIBER SHIPMENTS

According to Statistics Canada, Ottawa, *shipments* of asbestos by primary Canadian producers (including tonnage for own use) amounted to 142,731 short tons in *December 1978* vs. 132,710 tons in December 1977. Shipments for the *Year 1978* totaled 1,567,514 tons valued at an estimated C$601,631,000, down 6.3% in quantity but up 6.8% in value compared with the year 1977. Beginning with the year 1978, these figures include concentrate shipped from Asbestos Hill, Quebec. A breakdown by grade and origin for the past five years is as follows:

PRIMARY CANADIAN ASBESTOS PRODUCERS' SHIPMENTS

	Year 1978	Year 1977	Year 1976	Year 1975	Year 1974
Quebec Plants—					
Crudes 1 & 2 and Group 3—Spinning	15,472	14,956	22,006	10,039	32,432
Group 4—Shingle Fiber	406,727	406,800	321,337	208,929	351,804
Group 5—Paper Fiber	163,933	158,748	146,505	74,133	202,320
Group 6—Stucco Fiber	224,233	235,030	250,137	162,464	274,387
Group 7—Refuse	582,557	566,049	633,814	428,342	675,313
Group 8—Sand	20	2	25	116	315
	1,392,942	1,381,585	1,373,824	884,023	1,536,571
Plants in Newfoundland Ontario, British Columbia & the Yukon	174,572	291,018	319,426	279,651	274,093
Total Short Tons	1,567,514	1,672,603	1,693,250	1,163,674	1,810,664
Total Metric Tonnes	1,422,024	1,517,360	1,536,091	1,055,667	1,642,589
Total Value (C$)	602-million	564-million	452-million	267-million	302-million

CANALISATION
UNDERGROUND
TIEFBAU

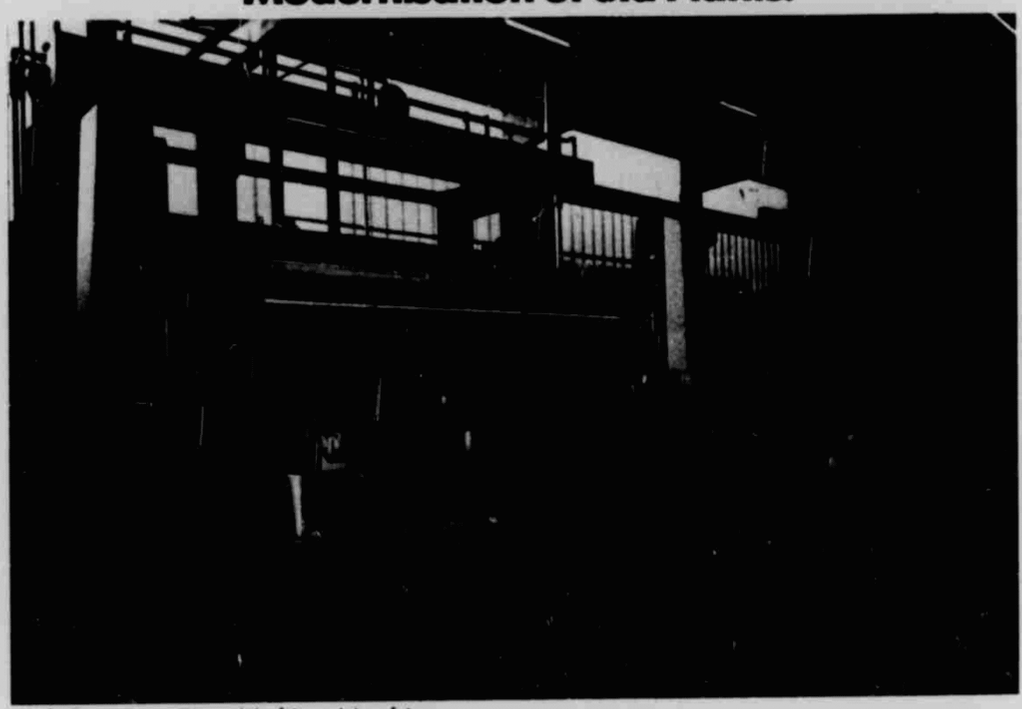
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EXPORTS FROM CANADA

From: Statistics Canada

NOVEMBER 1978

Short Tons

UNMANUFACTURED ASBESTOS	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	532	36,875	17,365
Eastern Europe	..	100	2,290	..
Middle East	..	..	1,985	119
Africa	..	..	1,475	158
Asia	..	174	9,981	11,253
Oceania	..	..	779	153
So. & Cen. America & Antilles	..	142	8,220	6,268
United States	1	565	9,547	47,581
	1	1,513	71,152	82,897

The total amount of unmanufactured asbestos exported in *November 1978* was 155,563 short tons, valued at C$55,303,000.

MANUFACTURED ASBESTOS PRODUCTS

Asbestos cloth, dryer felts & sheets	C$	794,000
Asbestos brake linings & facings		332,000
Asbestos-Cement building materials		1,681,000
Other basic asbestos products		431,000
	C$	3,238,000

JANUARY-NOVEMBER 1978

UNMANUFACTURED ASBESTOS	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	5,844	279,464	137,516
Eastern Europe	..	2,875	32,795	2,056
Middle East	..	140	17,431	2,132
Africa	..	6	9,893	1,265
Asia	..	2,570	94,620	105,821
Oceania	..	10	34,159	2,125
So. & Cen. America & Antilles	..	2,182	95,651	43,088
United States	1	8,155	121,143	417,809
	1	21,782	685,156	711,812

The total amount of unmanufactured asbestos exported in *January-November 1978* was 1,418,751 short tons, valued at C$523,831,000.

MANUFACTURED ASBESTOS PRODUCTS

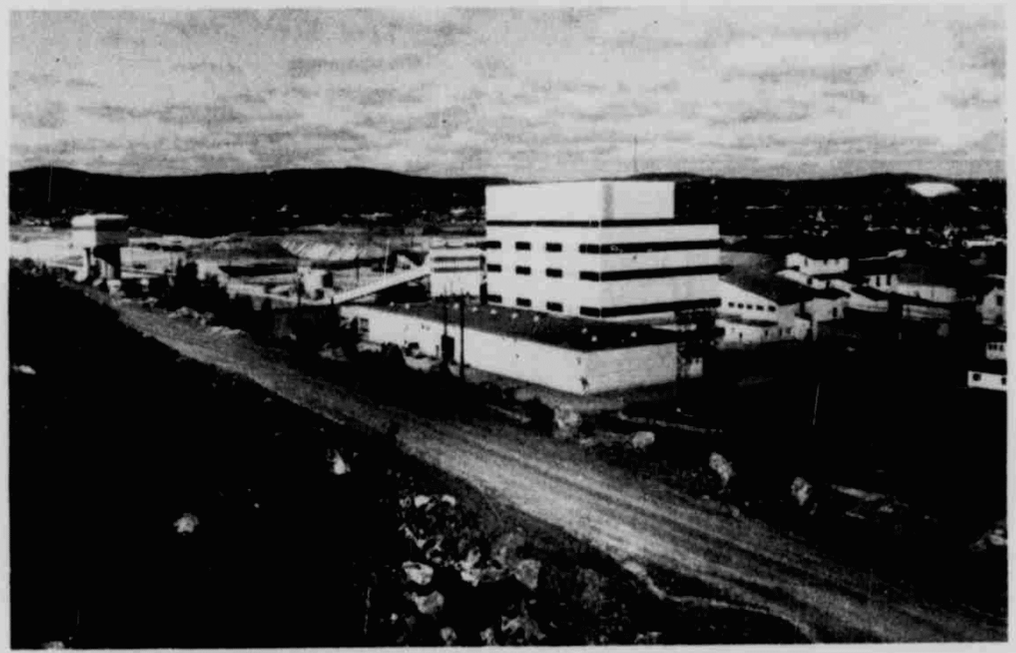
Asbestos cloth, dryer felts & sheets	$	3,635,000
Asbestos brake linings & facings		3,157,000
Asbestos-Cement building materials		13,221,000
Other basic asbestos products		4,985,000
	C$	24,998,000

January-November 1977: Canadian exports of unmanufactured asbestos totaled 1,390,633 short tons, valued at C$479,468,000; exports of manufactured asbestos products were valued at C$22,143,000.

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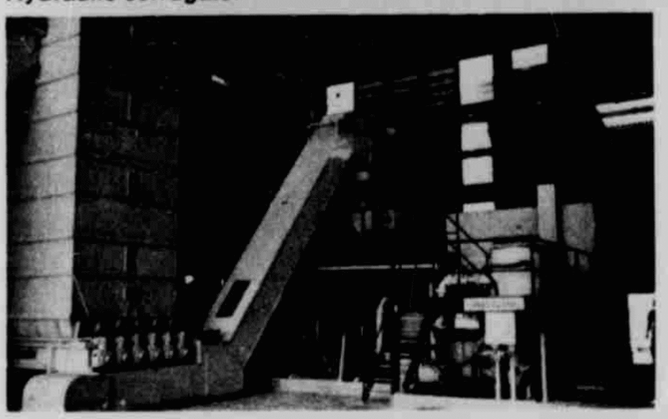
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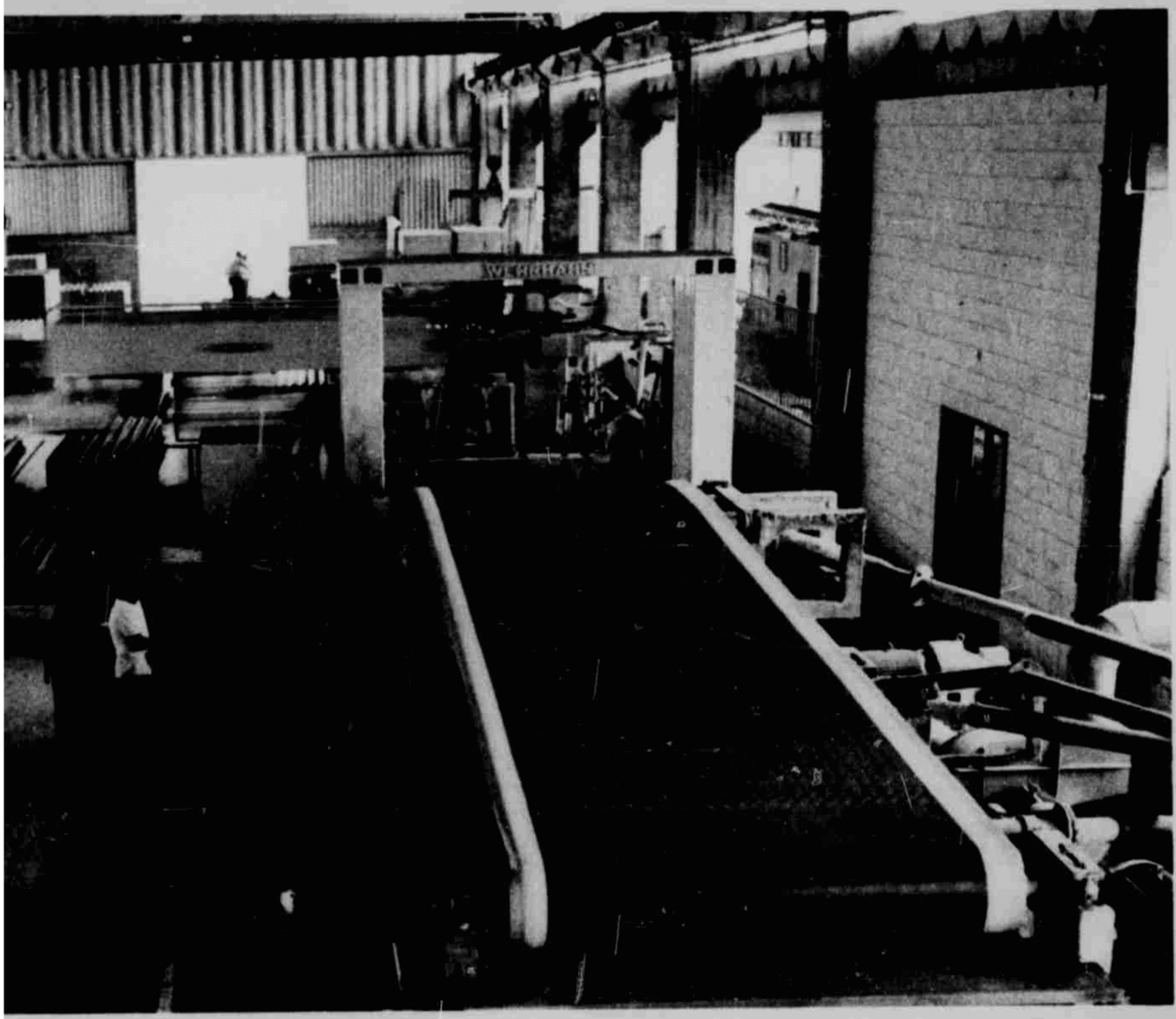
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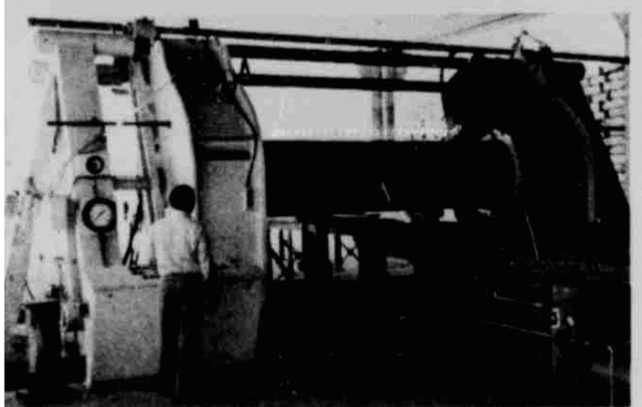


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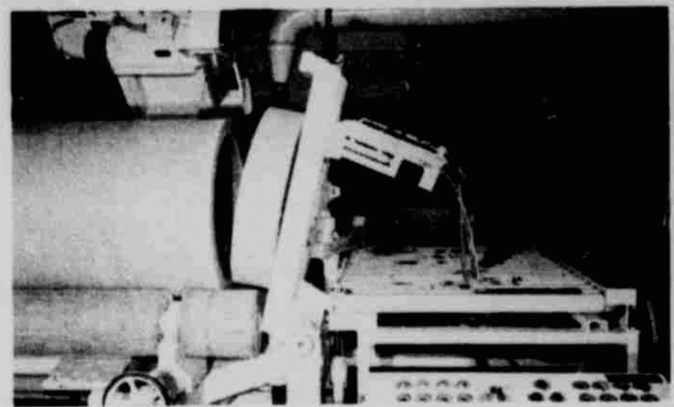
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CURRENT ASBESTOS PRICES

QUEBEC

As of January 1, 1979

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

No. 2 Crude	$2295
No. 3 Spinning Fiber	$1032—$1606
No. 4 Asbestos Cement Fiber	687— 1011
No. 5 Paper Fiber	388— 537
No. 6 Paper and Shingle Fiber	330— 332
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

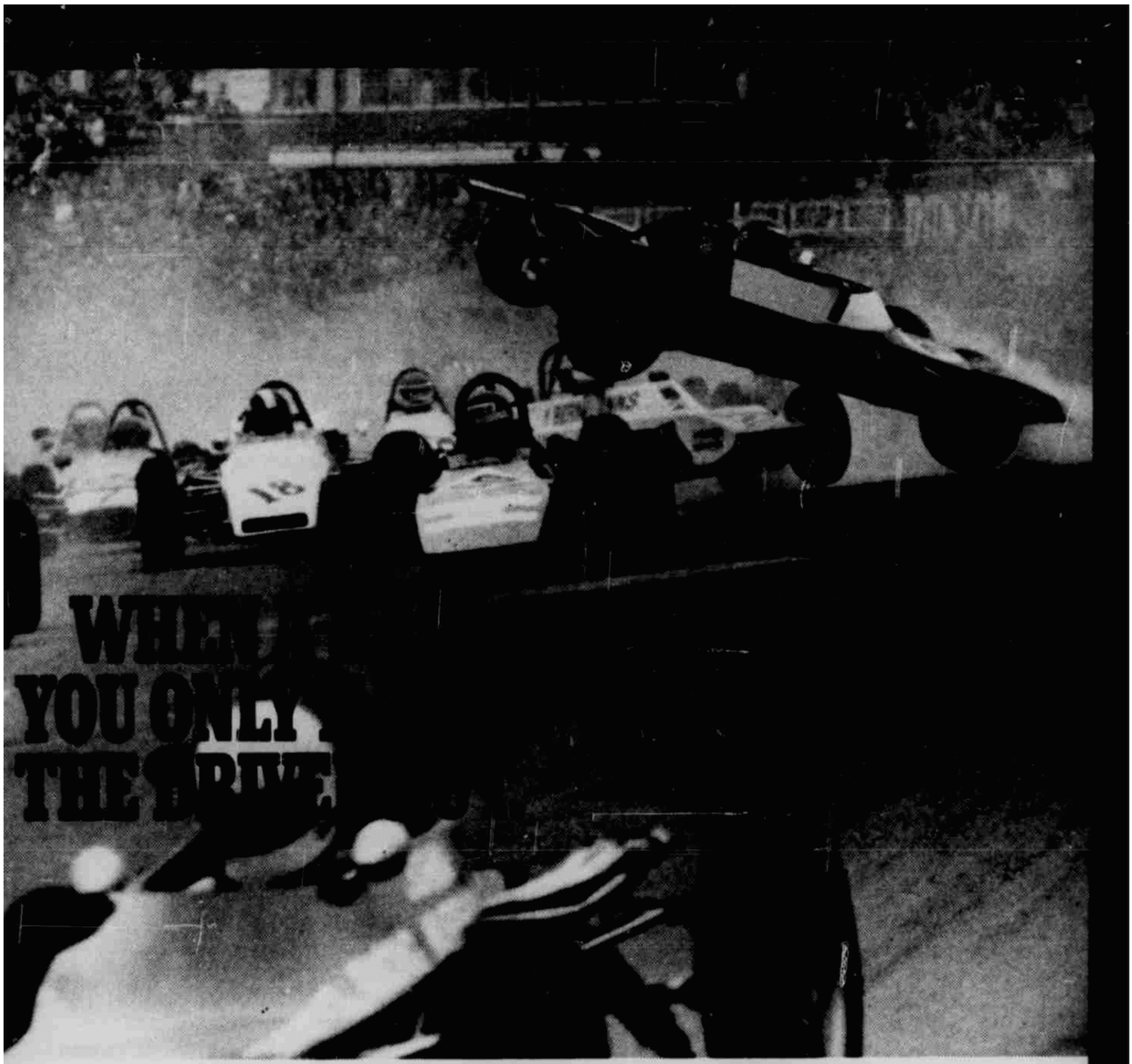
ARIZONA

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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And only one material can protect the man who gets him out. At every race track there is a fireman wearing special protective clothing at all times.

Obviously this suit is made of aluminized asbestos because only asbestos can protect the wearer in temperatures that make magnesium wheels go off like flash guns and causes chassis to melt. As a matter of fact, asbestos is the only woven material that can make this claim and without it, race drivers, firemen and others who work in these environments would be defenseless.

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

ASBESTOS

When life depends on it, you use asbestos.

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C. L. Zimmerman Co.,
N 203 Cincinnati Union Terminal, Cincinnati, Ohio 45203, **U.S.A.**
Other representatives world-wide.

THE ASBESTOS MINING SCENE

ASBESTOS / A SOUND CORPORATION

In a letter to shareholders dated February 21, 1979, M. E. Taschereau, President and Chief Executive Officer, reports that *Asbestos Corporation Ltd.*, Montreal, Quebec, is in sound financial shape with excellent business prospects for the future. *Net income* in 1978 was $15.6-million, or $5.51 per share, compared with $21-million, or $7.40 per share, in 1977. Earnings were affected by currency exchange translation losses caused by the decreasing value of the Canadian dollar, increased costs due to the reactivation of the King-Beaver open pit and ore preparation plant, cost increases due to inflation and the oversupply situation in the first half of the year. *Dividends* totaling $2.40 per share were paid in 1978, compared with $1.60 per share the previous year. *Sales* in 1978 were $147.1-million, against $145.3-million in 1977.

Earlier forecasts indicating an *improvement in demand for asbestos-cement grade fibers* are proving to be correct in that fourth quarter sales, at $45.6-million were the highest ever attained. Market research indicates that long-term demand for asbestos will be strong and that a shortage of good a-c fiber is likely to develop in the second half of 1979. Over 85% of Asbestos Corporation's production is suitable for the a-c sector.

Concerning Bill 121, tabled in the Quebec National Assembly December 15, 1978, Mr. Taschereau said that if it had been passed into law, it would have given the Quebec government the *right to expropriate*, upon simple notice, "property of any kind that is owned" by the company. In mid-February, the government announced its agreement to not proceed with the expropriation bill in order to create a more conciliatory atmosphere for its negotiations with General Dynamics Corporation for acquisition of its 54.6% controlling interest in Asbestos Corporation (ACL). The bill could become law if it is reintroduced and passed during the current session of the Assembly, which began March 6, 1979. (It is understood the acquisition would only involve the company's asbestos operations in Quebec, although Provincial Finance Minister Jacques Parizeau said the government might offer to purchase the asbestos processing plant at Nordenham, West Germany, in a separate transaction.) According to Provincial spokesmen, the tabling of the bill was necessary because of the wide discrepancy between the values placed on the assets of ACL by the consultants for the government and for General Dynamics. Shares at $99.75 each were established by Lazard Freres & Co., General Dynamics consultants. Kidder, Peabody & Co. Inc., the government's consultants, concluded that ACL shares are worth in the range of $41-$44 per share.

Mr. Taschereau states there are several areas in which the *Kidder, Peabody report is inconsistent* or deviates from accepted analysis techniques. For instance, real increases in the price of fiber were not recognized in determining the company's future earnings and although ACL has established ore reserves, plants, markets and a proven record of good cash generation, it was considered by Kidder, Peabody as a "high risk" in-

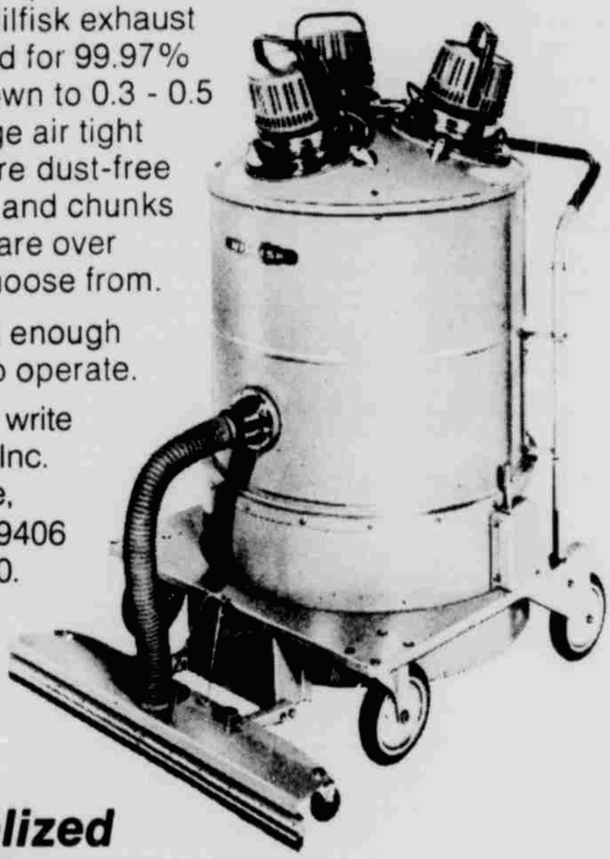
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To meet clean air standards you not only need a centralized dust collector, you also need a decentralized dust collector.

Clean air standards being what they are, you may not be meeting them even with a central dust collector. And this year, standards are being tightened even further.

So you ought to look at the Nilfisk GA 73 portable industrial vacuum cleaner. It picks up where central systems leave off. And it does that with Nilfisk's exclusive multi-stage filtration system. The oversize main filter resists early dust clogging, and can be shaken and cleaned at all times without exposing the operator.

In addition special Nilfisk exhaust filters can be installed for 99.97% average retention down to 0.3 - 0.5 microns. Heavy gauge air tight container liners insure dust-free disposal of fine dust and chunks of debris. And there are over 50 attachments to choose from.



Yet the GA 73 is light enough for a single person to operate.

For more information, write to Nilfisk of America, Inc. 201 King Manor Drive, King of Prussia, PA 19406 or call (215) 277-3900.

NILFISK GA 73.

The decentralized dust collector.

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vestment requiring a discount rate of the order of magnitude regularly used to evaluate new, still uncertain mining ventures.

In urging shareholders to protest the move toward expropriation, Mr. Taschereau said the contemplated expropriation is unwise and unwarranted and even on a negotiated basis, Quebec's proposed acquisition of ACL would seriously affect the Province's future investment climate.

As a matter of interest, shares of Asbestos Corporation Ltd. were selling at around C$25.00 in November 1976, $37.00 in November 1977, $45.75 in November 1978—and closed at $49.75 on February 20, 1979.

STRIKE SETTLED AT CASSIAR

Some 550 workers at the asbestos mine of *Cassiar Asbestos Corporation Ltd.*, in northern British Columbia, voted 91% in favor of accepting a new agreement and ending the four-month strike which began mid-September 1978. The workers, who are represented by the United Steelworkers of America, struck to protest a company proposal to freeze the wages of 71 office and technical employees and to reduce the starting rates of new office workers.

USGS CELEBRATES 100 YEARS

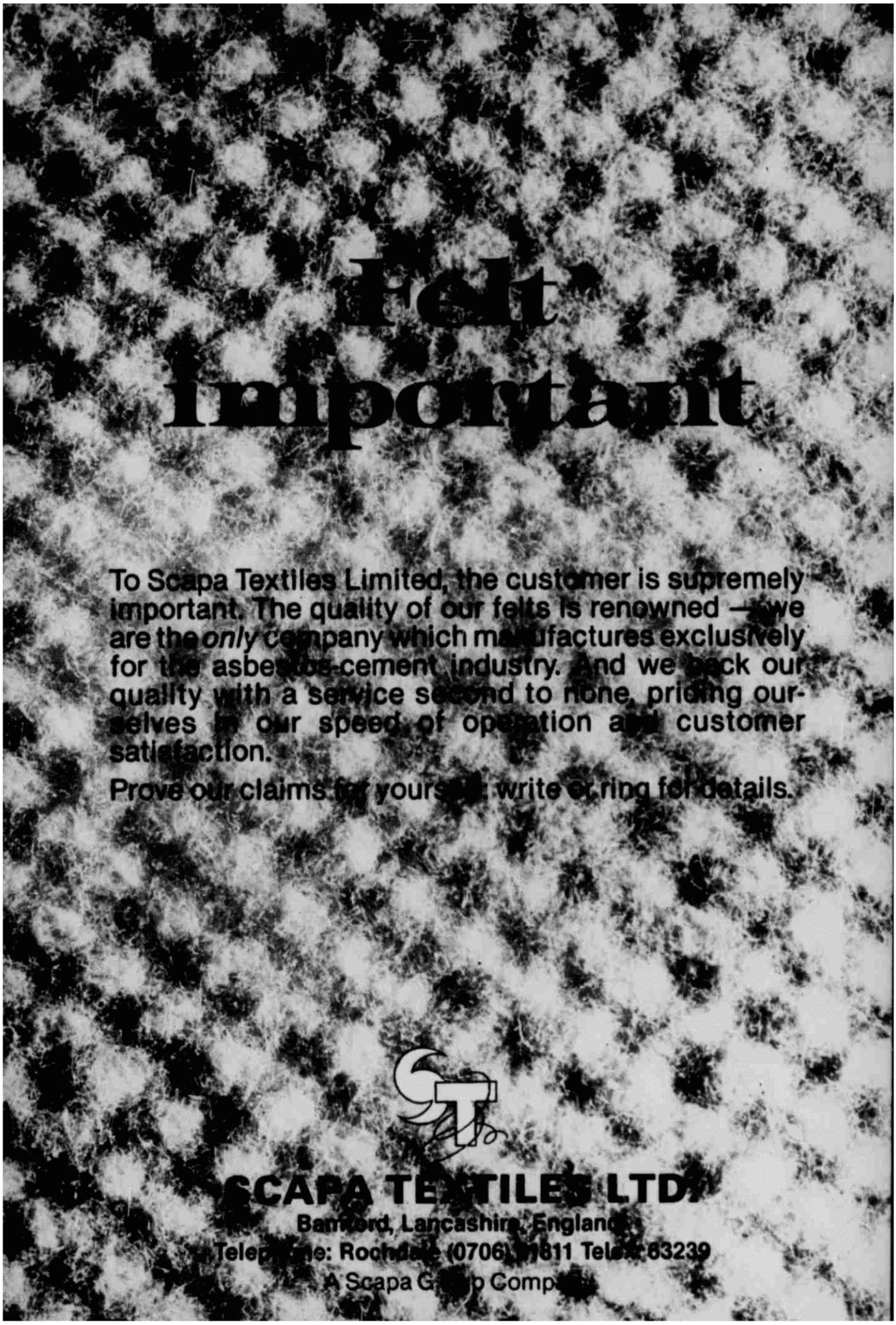
The *U.S. Geological Survey* observed its centennial birthday early this month at its National Center in Reston, Virginia. Established March 3, 1879, USGS is the U.S. government's largest earth science research agency. The event provided an opportunity to reflect on the Survey's past contributions, but also focused on burgeoning natural resource and environmental problems now being faced.

MARCEL LÉVECQUE—1922-1979

CERTAINTEED CORPORATION

We regret to report the sudden demise of *Marcel Lévecque*, President and Chief Executive Officer of CertainTeed Corporation, Valley Forge, Pennsylvania. Mr. Lévecque died of a heart attack February 22, 1979, in Méribel, France, while vacationing with his family. He had been a member of the CertainTeed Board of Directors since 1972. Prior to being elected Senior Vice President of CertainTeed in 1976, he had been Technical Director-Insulation & Textile for Saint-Gobain Industries, a wholly-owned subsidiary of Saint-Gobain-Pont-a-Mousson (the French firm which owns about 54% of CertainTeed stock). He also served as Chairman of the Operating Committee for CertainTeed and had been President and Chief Executive Officer since June 1978, having succeeded Donald E. Meads who had resigned from the company, reportedly due to a difference in management philosophies from those of the French Directors.

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MEN ON THE MOVE

CAPE INDUSTRIES LTD.

Recent appointments at Cape Insulation Ltd. include *David Conning* as Sales and Marketing Director and *David Johnson* as Commercial Director. Mr. Johnson had been Sales Manager U.K. for the Cape subsidiary.

CAREY-CANADIAN MINES LTD.

Olaf Mohn has joined this Jim Walter company as Export Sales Representative. He will headquarter at Carey-Canadian Mines' offices at East Broughton Station, Quebec. Mr. Mohn's past experience includes 4 years with an import-export firm in Hamburg, Germany; one year with a London bank; 13 years in South Africa with two asbestos fiber producers; 4 years with United Asbestos Inc., Montreal; and 1½ years with the asbestos industry in South Africa.

CASSIAR ASBESTOS CORPORATION LTD.

N. Gritzuk, Chairman of the Board of Cassiar Asbestos Corporation, announced the appointments of *Anthony T. Kana* as Vice President-Finance and Administration and *Brian G. Pewsey* as Vice President-Operations. Mr. Kana remains Secretary for the company. Mr. Pewsey had been General Manager-Operations.

HAZEMAG (CANADA) LTD.

David F. Hawker has been named Regional Sales Manager for Ontario, it was announced by *Dr. Karl V. Lindell*, Executive Vice President for Hazemag (Canada). Mr. Hawker previously represented various Canadian manufacturers of grinding mills and refractory products.

JOHNS-MANVILLE CORPORATION

The Board of Directors of Johns-Manville has elected *John A. McKinney*, Chairman and Chief Executive Officer; *Fred L. Pundsack*, President and Chief Operating Officer; and *Francis H. May, Jr.*, Vice Chairman. The promotion of Mr. McKinney, formerly President and Chief Executive Officer, re-established the position of Chairman of the Board as the top executive of the corporation. Mr. Pundsack, who had been Executive Vice President-Operations, is now responsible for the management of all production, technology, mining, marketing, sales, administration, transportation and business logistics operations. The duties of Mr. May, formerly Executive Vice President-Finance and Administration, include health, safety and environment, data processing and corporate growth planning and development.

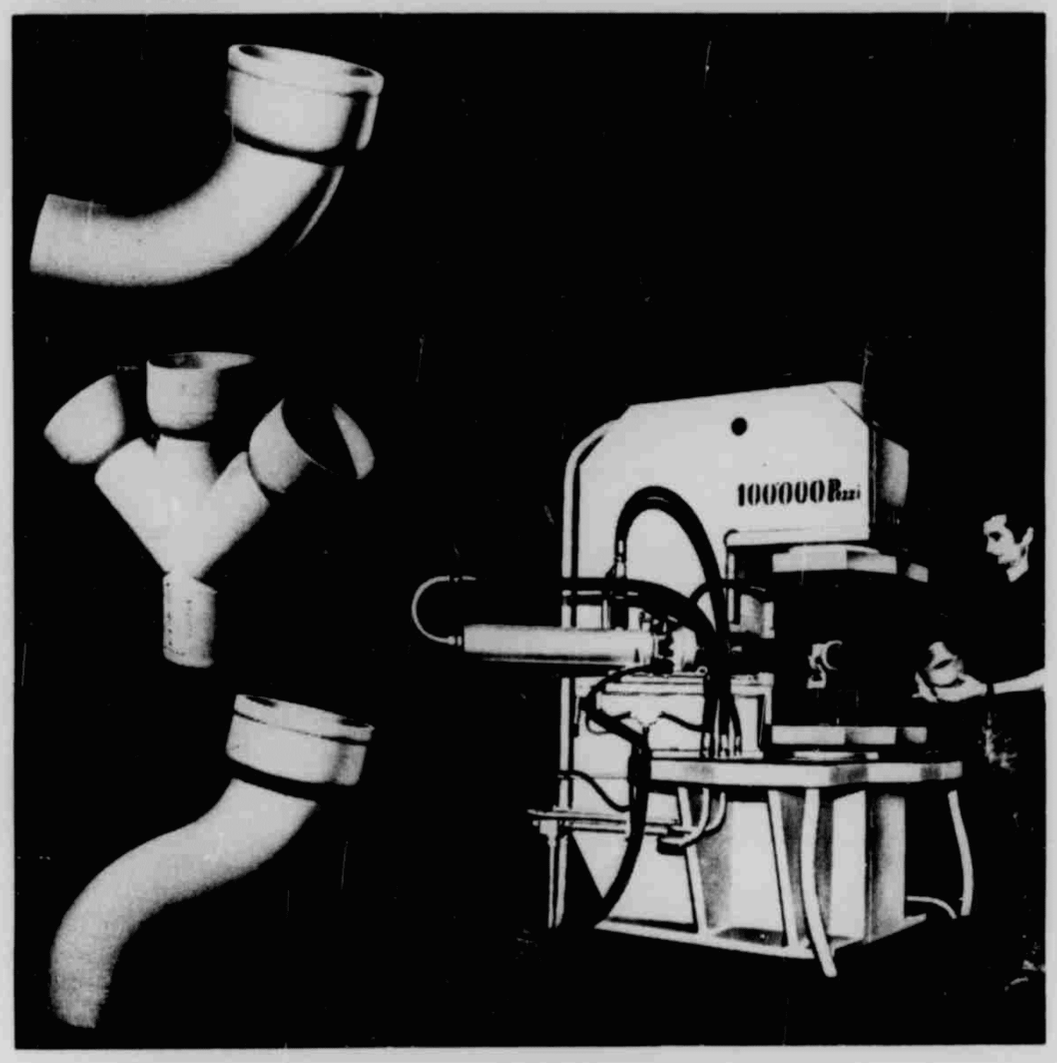
TURNER & NEWALL LTD.

B. H. Ross, a Director of Ferodo Ltd., has been appointed a Director of Engineering Components Ltd. and General Manager of ECL's Filtration Division. Both Ferodo & ECL are subsidiaries of Turner & Newall.

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

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BIRTHDAY GREETINGS to . . .

H. D. S. Hardie, Personnel & External Relations Director, Turner & Newall Ltd., Manchester, England, April 15.

Harold U. Zerbe, a Director, Hedman Mines Ltd., Bethlehem, Pennsylvania, April 15.

Denis M. Kelleher, Marketing Manager, Asbestos Fiber Division, Johns-Manville Sales Corporation, Denver, Colorado, April 16.

Jean Marc Leblond, Manager-Marketing, Bell Asbestos Mines Ltd., Thetford Mines, Quebec, April 16.

Philip A. Meyer, Consultant, Nicolet, Inc., Short Hills, New Jersey, April 16.

Adi K. Patell, Sales Administrator, Carey-Canadian Mines Ltd., East Broughton Station, Quebec, April 16.

G. A. Higham, Managing Director & Group Chief Executive, Cape Industries Ltd., London, England, April 17.

Robert A. Matthews, Vice President, Supradur Manufacturing Corporation, & President, Precast/Schokbeton, Inc., Kalamazoo, Michigan, April 18.

Kerry A. Rickert, General Superintendent of Manufacturing, Cement Asbestos Products Company, Van Buren, Arkansas, April 18.

Robert A. Clifton, Physicist & Asbestos Specialist, Division of Nonmetallic Minerals, U.S. Bureau of Mines, Washington , D.C., April 20.

Donald L. Davidson, Director of Marketing & Sales for Transportation/Industrial/Aerospace Products, Raybestos Manhattan Industrial Products Company, Detroit, Michigan, April 21.

Neal B. Norris, Market Manager (Felt), Asbestos Fiber Division, Johns-Manville Sales Corporation, Denver, Colorado, April 21.

William T. Cavanaugh, Managing Director, American Society for Testing and Materials, Philadelphia, Pennsylvania, April 24.

R. D. Armstrong, Chairman & Chief Executive Officer, Rio Algom Ltd., Toronto, Ontario, April 25.

Lawrence R. Blair, Vice President, International Operations, Johns-Manville Corporation, Denver, Colorado, April 26.

G. C. Clark, Joint Managing Director, Engineering Components Ltd., Slough, England, April 26.

P. W. C. Griffith, Chairman, Turner & Newall Ltd., Manchester, England, April 26.

W. A. Burgess, a Director & General Manager, Engineering Materials Division, TAC Construction Materials Ltd., Trafford Park, Manchester, England, April 27.

Robert A. DeWitt, Vice President & Group Executive, Jim Walter Corporation, Tampa, Florida, April 27.

W. Jerry Rooney, Vice President of Marketing, Ambler Division, Nicolet, Inc., Ambler, Pennsylvania, April 28.

Calvin M. Edwards, Manager of Manufacturing, Southern Textile Corporation, Charlotte, North Carolina, April 29.

Wayne Gallant, Vice President-Finance & Secretary-Treasurer, Atlas Asbestos Co. Ltd., Montreal, Quebec, April 30.

Richard H. Jaffer, President, York Insulation Company, Inc., Hillside, New Jersey, May 1.

Edmond P. Bertheaud, a Corporate Vice President, Treasurer & a Director, Nicolet, Inc., Ambler, Pennsylvania, May 3.

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Guy G. Gabrielson, Jr., Chairman of the Board, Nicolet, Inc., Ambler, Pennsylvania, May 4.

E. C. Hildebrandt, Secretary, MacArthur Company, St. Paul, Minnesota, May 4.

Hans Thoeni, Deputy Chairman & Managing Director, Everite Ltd., Braamfontein, Johannesburg, Republic of South Africa, May 4.

J. Randall Plummer, Vice President, Pars Manufacturing Company, Ambler, Pennsylvania, May 6.

Dr. James T. Trainor, Director-Research & Development, Raybestos Friction Materials Company, Trumbull, Connecticut, May 7.

John P. Hayes, President & Chief Operating Officer, National Gypsum Company, Dallas, Texas, May 9.

R. J. Lambson, General Manager, Everite Ltd., Braamfontein, Johannesburg, Republic of South Africa, May 10.

C. R. Elliott, a Director, Cassiar Asbestos Corporation Ltd., Bowmanville, Ontario, May 11.

H. A. Hudson, a Director, James Hardie Asbestos Ltd., Sydney, New South Wales, Australia, May 11.

P. N. Stockton, Joint Managing Director, Engineering Components Ltd., Slough, England, May 11.

R. B. Todd, Vice President-Manufacturing, Atlas Asbestos Company Ltd., Montreal, Quebec, May 11.

G. J. Leathley, General Mine Superintendent, Cassiar Mine, Cassiar Asbestos Corporation Ltd., Cassiar, British Columbia, May 13.

Robert J. Muth, Esq., Vice President, Asarco Inc., New York City, May 13.

POLYREZ COMPANY, INC.



PHENOLIC & CASHEW RESINS FOR FRICTION MATERIALS

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ANNUAL REPORTS—1978

JIM WALTER CORPORATION

Jim Walter Corporation, Tampa, Florida, produces a broad line of building materials and industrial products, has significant natural resource operations and builds and finances partially-finished homes in the southern area of the United States. The company's balanced product line, along with generally strong economic activity, produced the eighth consecutive year of record profits and earnings per share, as well as the highest sales and revenues in its history. Net income for the year ended August 31, 1978, totaled $87.8-million, an increase of 10% over the $79.4-million reported a year earlier. Sales and revenues increased 21% to $1.735-billion, reflecting gains in virtually all product lines. The acquisition of Graham Paper Company early in the year contributed to increased paper product sales. In estimating the percentage of contribution to sales and revenues by major market, Jim Walter calculates 18% from new residential construction, 18% from renovation and remodeling, 13% from industrial, 12% from water and sewage distribution, 11% from partially-finished homes, 11% from new nonresidential construction and 17% from other markets.

Record sales and income notwithstanding, Jim Walter's ratio of net income to sales and revenues slipped slightly to 5.1% in 1978 from 5.5% in the previous year. The decrease in profit margins is attributable to higher outlays for energy, increased litigation related costs, increased taxes and generally higher costs of materials, goods and services purchased by the company—all of which could not be fully offset by higher pricing for the company's products. Profits were also affected by three major strikes at operations in Alabama, Illinois and Quebec—and by costs (approximately $8.1-million) incurred in the settlement of litigation.

More than $5.3-million were spent in 1978 on research and development activities, principally on projects related to building materials. Major progress was made in the development of electric melting techniques and improved processing to increase Jim Walter Resources' production of processed mineral fibers (PMF), a relatively new and profitable operation. PMF is used in many products which formerly contained asbestos, such as friction materials, and as a reinforcing filler in a variety of plastics.

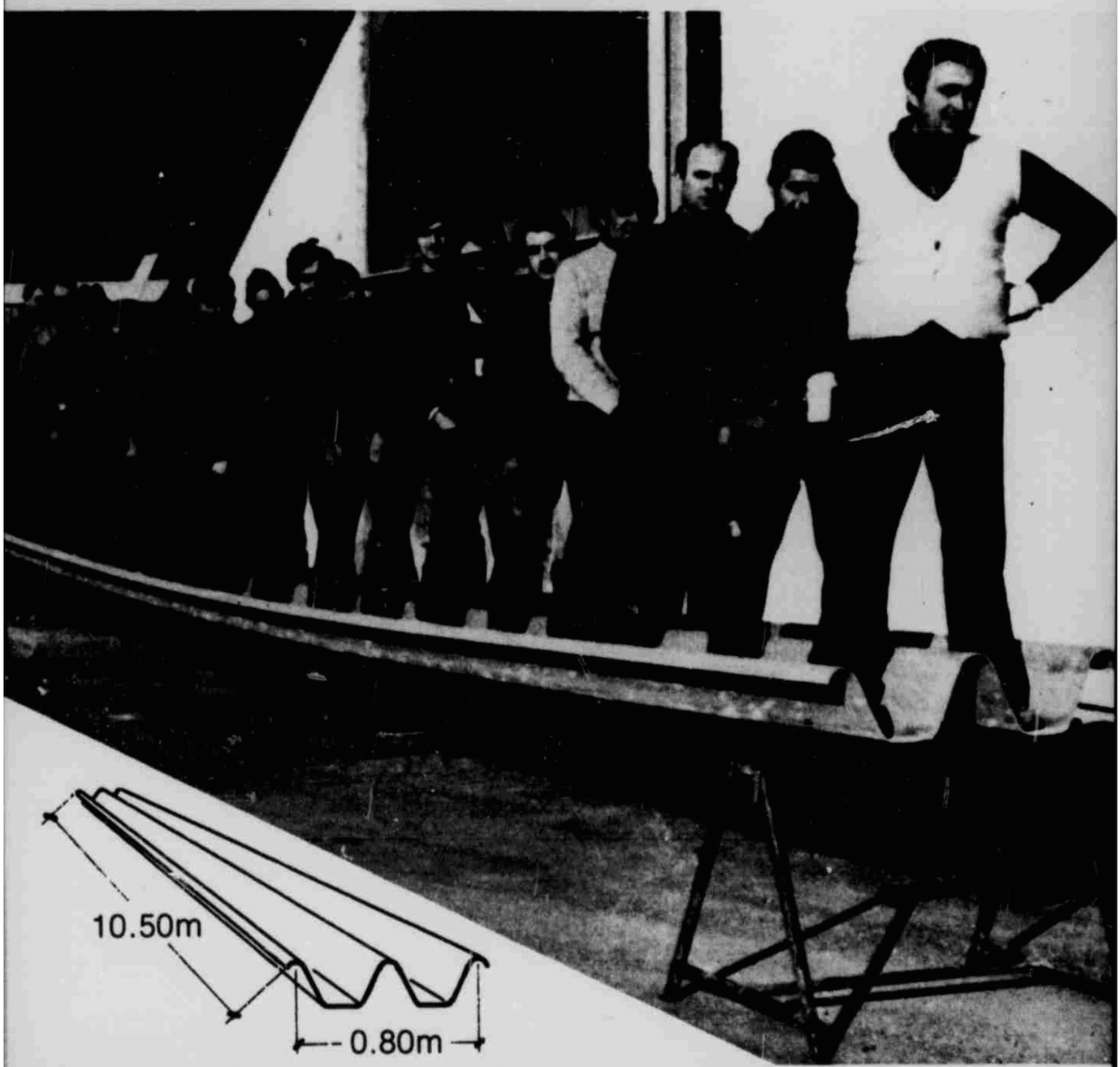
In August 1974, the U.S. Federal Trade Commission (FTC) filed a complaint alleging the 1972 acquisition of Panacon Corporation by Celotex violated Section 7 of the Clayton Act and requested divestiture of all Panacon operations. In May 1976, an FTC Administrative Law Judge filed an Initial Decision and Order finding the acquisition of Panacon in violation of Section 7 and ordering divestiture of all of the assets of the former Philip Carey Division of Panacon and imposing a ten-year restriction against the acquisition of similar assets. In January 1978 the FTC affirmed the Initial Decision and Order and, in addition, expanded the divestiture order to include Carey-Canadian Mines. Jim Walter is seeking review of this decision in the Fifth Circuit Court of Appeals.

Asbestos Magazine, 1979, March 1979
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steel
+ asbestos
+ cement

NEW!

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Paderno Dugnano - Milano - Italy

Mineral and Fiber Products—This group includes the Roofing Products, Building Products and Industrial Products Divisions of Celotex; Carey-Canadian Mines; Majestic Carpet Mills; and Celotex Ltd., London, England. Sales and revenues amounted to $597-million in 1978 and income contribution was $65.7-million. . . . *Carey-Canadian Mines*—Expectations for a record year at Carey-Canadian Mines disappeared in the wake of a four-month work stoppage at the asbestos operation at Thetford Mines, Quebec. Carey-Canadian entered 1978 on a high note, responding to strong market demand with high short-fiber grade production coupled with ongoing development of a new mining zone which is expected to increase medium and long fiber capacity by 50% before 1982. Demand for asbestos from a previously diminishing U.S. market took an upward turn in 1978 as foreign market demands bowed to lower economic activity. Although U.S. consumption of asbestos materials is expected to decrease due to continuing concern for the possible effects of asbestos on health, projections call for a 3%-4% annual increase in world tonnage shipped based on an anticipated resurgence of world consumption and accompanying shortages.

With demand for virtually all building materials expected to remain stable well into fiscal 1979, Jim Walter anticipates its operations should continue at a healthy rate throughout the year.

ASBESTOS STOCK QUOTATIONS

Close—February 20, 1979

Abitibi Asbestos	C$.75
Advocate Mines	Bid C$2.95
	Asked C$3.00
Armstrong Cork	16⅝
Armst. Cork (pfd 3.75)	44
Asarco	19⅜
Asbestos Corporation	C$49.75
Bendix	38¼
Carlisle	30¾
Cassiar Asbestos	C$10.00
CertainTeed	17
Charter Conso.	pence 150
Colt Industries	36½
Colt Ind. (pfd 1.60)	28½
Colt Ind. (pfd 4.25)	77¾
Conwest	C$6.50
Flintkote	30½
GAF Corporation	12¾
GAF (pfd 1.20)	17⅛
Gulf & Western	14¾
G&W (pfd 2.50)	32¾
G&W (pfd 3.87)	70⅛
IC Industries	26
IC Ind (pfd 3.50)	41¾
Jim Walter Corporation	27⅛
Jim Walter (pfd 1)	10
Jim Walter (pfd 1.60)	28½
Johns-Manville	23¼
Johns-Manville (pfd 5.40)	61⅞
Kennecott Copper	24½
Lear Siegler	18¼
Lear Siegler (pfd 2.25)	45
Maremont	20⅞
McAdam Mining	C$.27
National Gypsum	16⅞
Pathfinder	C$.26
Raybestos-Manhattan	32¼
Rio Algom	C$37.50
Rio Algom (pfd 5.80)	C$78.625
Supradur	Bid 4½; Asked 5¼
Union Carbide	36½
*United Asbestos	C$3.15
Woodsreef Minerals	C$.385

*Close—February 9, 1979

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New. The Durafab BestoShield Coverall.



[illegible] designed [illegible] and other carcinogens.

[illegible]'s BestoShield coveralls have outstanding barrier qualities because they're made of DuPont's Tyvek™, a spun-bonded olefin with a Frazier Air Permeability of .01.

The BestoShield coverall can help reduce the health hazards in asbestos mining, shipyards, boiler rooms, insulation work, or any place where asbestos or other carcinogens are involved.

These special coveralls are available in a variety of styles and materials. With or without shoe covers, attached hoods, sealed seams and other features. From conventional styles to totally enclosed coveralls.

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VALUABLE LITERATURE

ORDERS FOR THE FOLLOWING BOOKS MAY BE PLACED THROUGH ASBESTOS MAGAZINE. PLEASE INCLUDE REMITTANCE WITH ORDER AND SPECIFY MARCH 1979 AS DATE OF LISTING. ALL CHECKS MUST BE ISSUED IN U.S. FUNDS ON A U.S. BANK.

PREVENTION AND DEFENSE OF MANUFACTURERS' PRODUCTS LIABILITY—Course Handbook Series No. 121, by K. Ross; details methods which can be employed by manufacturers before and after an accident occurs to help prevent or minimize liability; analyzes areas of contractual liability, developments in products liability law, current trends and reforms, and inter-relationships between corporate personnel, insurance carriers and defense counsel. [Practising Law Institute, 933 pages; $20.75]

AN INTRODUCTION TO MICROSCOPY BY MEANS OF LIGHT, ELECTRONS, IONS, X-RAYS AND ULTRASOUND—By T. G. Rochow, of North Carolina State University, and E. G. Rochow, of Harvard University; deals with instrumentation, preparation and magnification; highlights the effects on imaging due to specimen changes during preparation and examination; demonstrates the use and importance of standardized terminology; emphasizes the interpretative use of microscopy. [Plenum Publishing Corporation; 350 pages; $29.50]

PROCEEDINGS OF THE THIRD INDUSTRIAL MINERALS INTERNATIONAL CONGRESS—Includes the 20 papers presented and resultant discussions at the event held March 1978 in Paris, France; among the topics covered are regional planning and the exploiting of industrial minerals, ocean transportation in relation to industrial minerals, and industrial minerals to the year 2000. [Metal Bulletin Congresses Ltd.; 175 pages; $52.50]

**PART 16/1978 ANNUAL BOOK OF ASTM STANDARDS*—Contains 113 standards concerned with chemical-resistant, nonmetallic materials, clay and concrete pipe and tile, masonry mortars and units and asbestos-cement products; new standards include a test for the chemical resistance of protective linings and the specification for asbestos-cement conduit and fittings. [American Society for Testing and Materials; 575 pages; *$17.00]

**PART 33/1978 ANNUAL BOOK OF ASTM STANDARDS*—Contains 111 standards involving textiles, fibers and zippers and high modulus fibers; includes standards and specifications for asbestos textiles. [American Society for Testing and Materials; 856 pages; *$25.00]

UNIT OPERATIONS FOR TREATMENT OF HAZARDOUS INDUSTRIAL WASTES 1978—Pollution Technology Review No. 47, edited by D. J. De Renzo; describes ways of combating pollution from hazardous waste materials through the use of basic unit operations common to chemical engineering processes. [Noyes Data Corporation; 920 pages; $42.00]

WRITING REPORTS THAT WORK—A 9-hour, self-instruction program which provides a model to follow when writing reports; instructions are given in small, easily digestible steps toward building one skill upon another in a logical structure. [AMACOM—A Division of American Management Associations; looseleaf; $35.00]

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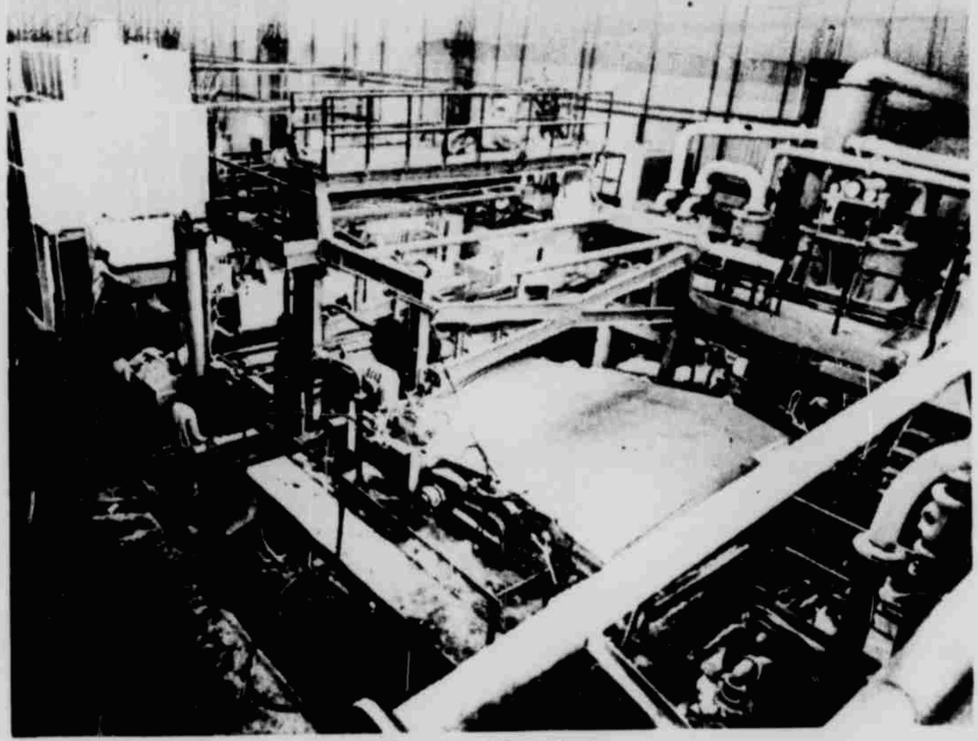
HYDERABAD ASBESTOS India's largest manufacturers of Asbestos Cement Products with over 30 years of experience, offer a comprehensive package of turn-key service—individual plants and know-how to set up a new A. C. products manufacturing plant or expand the existing one.

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CALENDAR OF EVENTS

MINERAL PROCESSING SYSTEMS—Series of lectures on basic economics, laboratory testing, experimental design, comminution-crushing, grinding, classification, gravity and magnetic mineral separation-flotation, solid/liquid separation and instrumentation; McGill University, Montreal, Quebec, *March 26-April 6.*

AMERICAN NATIONAL METRIC COUNCIL—5th Annual Conference; will cover implementation of the metric conversion process in U.S. industry; Hyatt Regency Hotel, Washington, D.C., *April 1-4.*

ASBESTOS IDENTIFICATION AND MEASUREMENT—Symposium of the American Conference of Governmental Industrial Hygienists, Inc.; featured speaker will be Dr. W. C. McCrone of the McCrone Research Institute; OSHA Training Institute, Des Plaines, Illinois, *April 9.*

INDUSTRIAL AIR/WATER POLLUTION CONTROL—9th Annual Seminar cosponsored by the American Institute of Plant Engineers and Rossnagel & Associates, Inc.; Sheraton Poste Inn, Cherry Hill, New Jersey, *April 10.*

NATURAL HYDRAULIC FRACTURING—Seminar jointly sponsored by the Department of Geology and the School of Graduate Studies; University of Toronto; Toronto, Ontario, *April 11.*

NOISE CONTROL—Courses by Bolt Beranek and Newman Inc. include: Management of Noise Control Programs for OSHA Compliance, *April 17* at Cambridge, Massachusetts, and *May 18* at Kansas City, Missouri; Noise Control Techniques for Industrial and Manufacturing Plants, *April 23-26* at Cambridge and *May 29-June 1* at Kansas City.

ROOFING TECHNOLOGY—5th National Conference sponsored by the U.S. National Bureau of Standards and the National Roofing Contractors Association; NBS Headquarters, Gaithersburg, Maryland, *April 19-20.*

CANADIAN INSTITUTE OF MINING AND METALLURGY—81st Annual General Meeting; Montreal, Quebec, *April 22-25.*

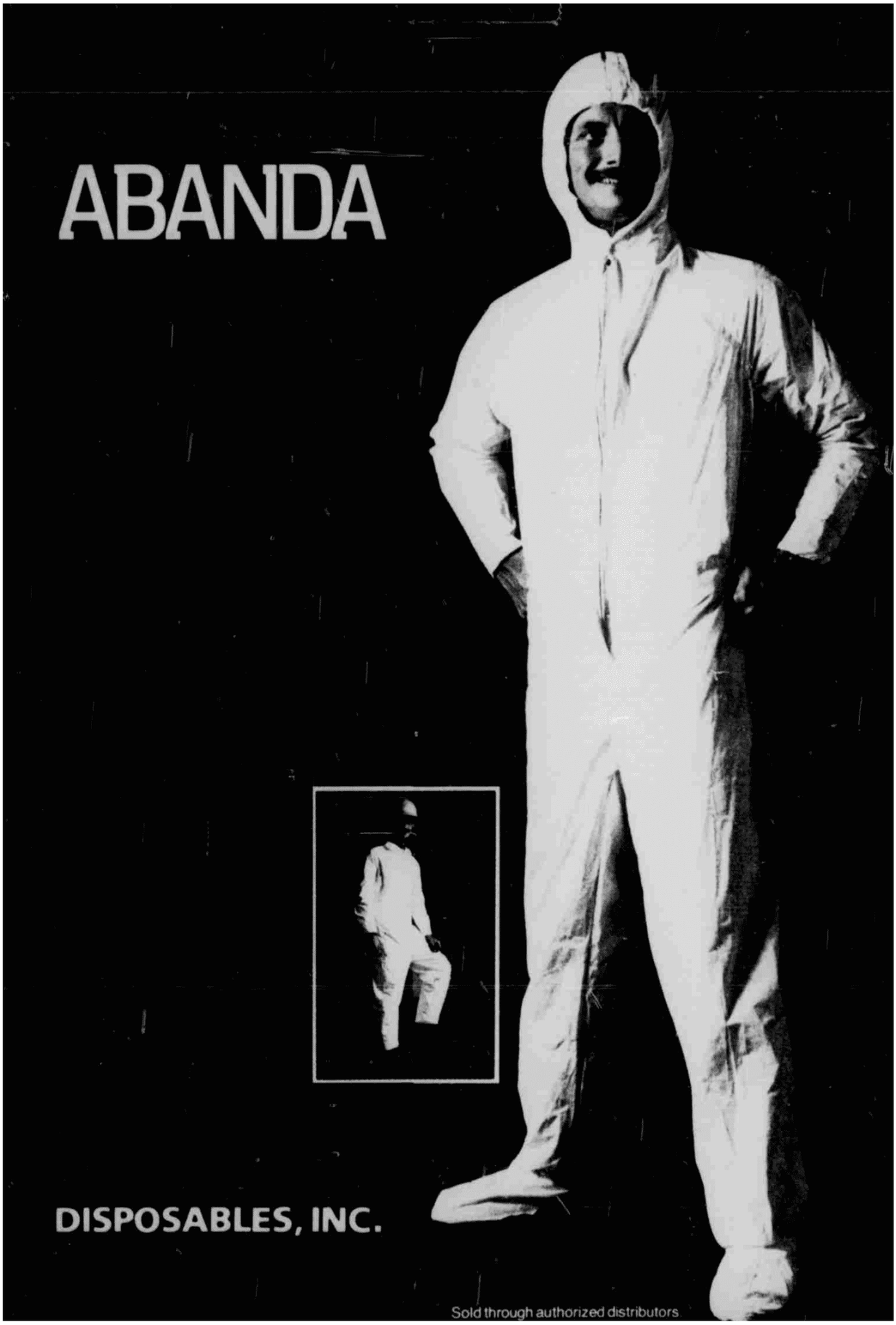
FTC TRADE REGULATION—Survey program of the Practising Law Institute; will discuss major federal income tax considerations relevant to domestic and international licensing of technology; *April 26-27* at New York City; *May 17-18* at San Francisco, California.

INSULATION CONTRACTORS ASSOCIATIONS—Coming meetings include: NYSICA Spring Meeting, *April 26-28* at Syracuse, New York; EASICA Spring Meeting, *May 3-4* at Philadelphia, Pennsylvania; SWICA Convention, *May 20-23* at Shangrila, Oklahoma; MICA Spring Meeting, *May 23-26* at Fontana, Wisconsin.

PACIFIC NORTHWEST METALS & MINERALS CONFERENCE—Sponsored by the American Society for Metals and the Columbia, Oregon and North Pacific Sections of the American Institute of Mining, Metallurgical and Petroleum Engineers; Ridpath Hotel, Spokane, Washington, *April 26-28.*

ASSOCIATION OF ASBESTOS CEMENT PIPE PRODUCERS—7th Annual Meeting & Industry Conference; Bayshore Inn, Vancouver, British Columbia, *April 29-May 2.*

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NOISE-CON 79—1979 National Conference on Noise Control Engineering sponsored jointly by the Institute of Noise Control Engineering and R. W. Herrick Laboratories; Purdue University, West Lafayette, Indiana, *April 30-May 2.*

FIRE TRAINING—A general industry school conducted by The Ansul Company; The Ansul Fire School, Marinette, Wisconsin, *May 1-3, May 22-24, July 24-26, August 20-22, September 25-27, October 16-18.*

BUILDING RESEARCH—4th event held every five years; organized by the National Building Research Institute of the Council for Scientific and Industrial Research; Good Hope Centre, Cape Town, South Africa, *May 8-10.*

ENVIRONMENTAL ENGINEERING—International symposium and exhibition of the Society of Environmental Engineers; Wembley Conference Centre, London, England, *May 9-11.*

MINERALOGICAL TECHNIQUES OF ASBESTOS DETERMINATION—A short course of the Mineralogical Association of Canada; Laval University, Quebec City, Quebec, *May 20-22.*

4TH INTERNATIONAL CONFERENCE ON ASBESTOS—Sponsored by several international organizations; will cover economic geology, geology and mineralogy, chemistry and physics, mining, recovery and refining, industrial uses, quality control and environmental aspects; will include a medical "round table" workshop on the health aspects of asbestos; Torino, Italy, *May 26-30, 1980 (note change in dates).*

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Remember When?

(February 1929 ASBESTOS)

This issue contained an article on the growing use of molded brake lining. While such lining had been used experimentally since 1918, it was not until 1924, with the appearance of four-wheel internal brakes, that first volume production took place. Since then, of course, with the universal adoption of internal brakes for motor vehicles, the molded product has completely displaced woven linings for automotive use.

A short article told of the activities of Sir Edmund Davis, Chairman and Managing Director of Rhodesian and General Asbestos Corporation Ltd., owners of the famous Shabanie Mine. Sir Edmund first went to the Union of South Africa in 1879 and, shortly thereafter, acquired an interest in a gold mine. He later became active in the mining of chrome ore, asbestos and other minerals. As a result of his work in developing the mineral resources of the British Empire, he was knighted by the King in 1927.

Richard V. Mattison announced he had acquired all the capital stock of Keasbey & Mattison Company and Bell Asbestos Mines, making him sole owner of both companies.

(March 1929 ASBESTOS)

New Advertiser: The Nippon Asbestos Co. Ltd., Osaka, Japan

It was announced that a new Delaware corporation known as The Thermoid Company had been formed to acquire all outstanding stock of Thermoid Rubber Company and Stokes Asbestos Company, both of Trenton, New Jersey. Officers were Robert J. Stokes, President, and Joseph O. Baur, Secretary-Treasurer, who occupied the same offices in both predecessor companies. Thermoid Rubber was one of the largest U.S. manufacturers of brake lining and allied products and Stokes Asbestos made asbestos textiles, chiefly for use in Thermoid products.

The sudden death of Theodore Frelinghuysen Merseles, President of Johns-Manville, was announced. Mr. Merseles was 65 and died after an illness of only a few days. He was known as one of the country's outstanding business leaders, having been President of Montgomery Ward & Company prior to his association with J-M.

Operation of the new mill at the Regal Mine in Arizona had started and was pronounced a complete success. This was the first Arizona producer to eliminate the hand cobbing of asbestos crudes extracted from its mine.

A summary of the development of the mine and mill of The Vermont Asbestos Corporation, near Hyde Park, Vermont, was published in this issue. After some 25 years of sporadic efforts to make the asbestos deposit profitable, an infusion of capital from substantial Boston interests was resulting in a viable operation which was planning to process 1,000 tons of rock per day.

Asbestos Magazine, 1979, March 1979
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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.

— Production of special sheets up to 9 mt length.

— Auxiliary machines for special sheet profiles.

— Complete plants with high production for pressure and sewage pipes.

— Special plants for preparation of wet and dry Asbestos.

— Machines for finishing pipes.

— Complete projects, know-how, technical assistance for sheet and pipe lines.



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BAZZI

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 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.

For example, we package asbestos in pulpable bags that are added directly to the mix where they disperse along with

In shipping, we utilize damage-free bulkhead rail cars and shrink-wrapped palletized units to help prevent damage during shipment and storage. We're also developing new methods of shipping such as high-density fiber blocks and other innovations that will help maintain dust-free environments and make it easier to handle asbestos safely.

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.

JM

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Carey-Canadian has this young man's future in mine.



He may grow up to be a doctor. Or he may work on a construction gang. Whatever he becomes, asbestos from Carey-Canadian will somehow touch his life.

You see, Carey-Canadian has been mining the rich fibrous Chrysotile Asbestos of Quebec since 1918. We mill and refine the ore into over 30 grades to be used in thousands of products, including paint, brake linings, acetylene cylinders and water pipes. The list is endless... and it seems that our reserves are endless, too, with proven resources for at least 50 more years. Give your Carey-Canadian man a call today.

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

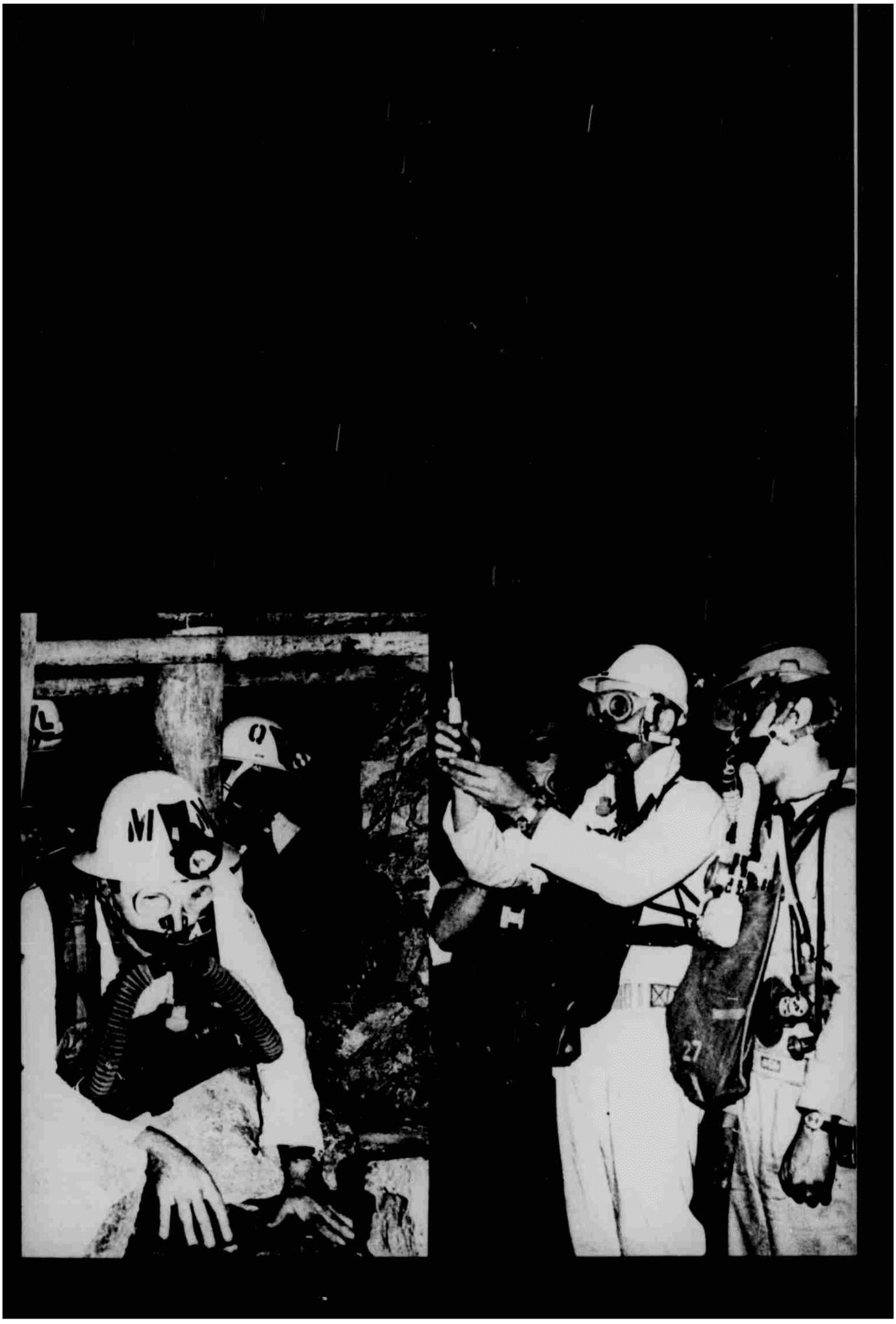
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We're helping industry appreciate the "locked in" benefits of asbestos with ads like this one.

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.*

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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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