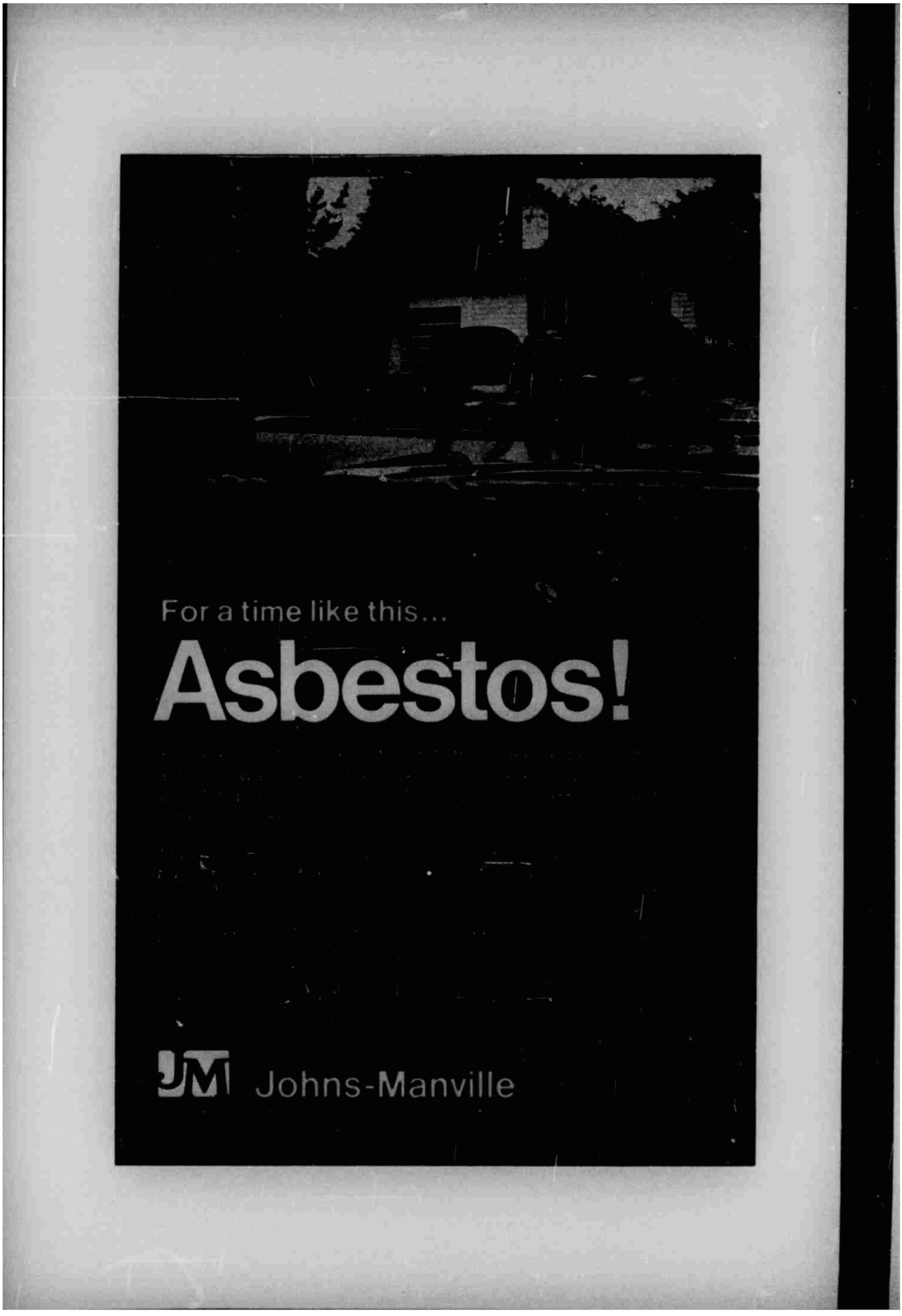
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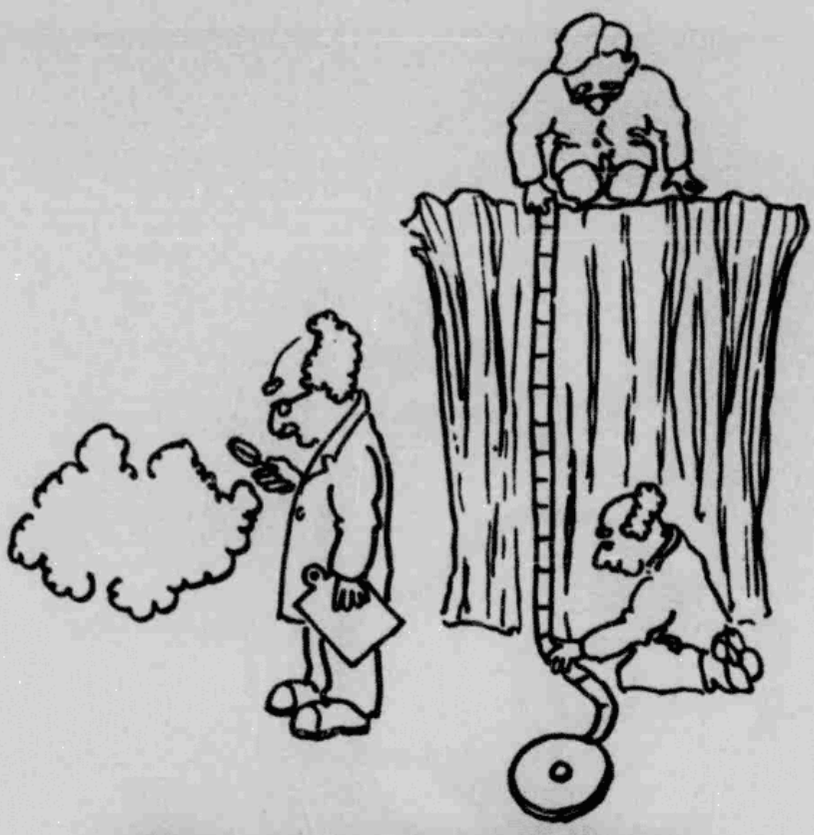
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VIBRANETICS DISCHARGERS SOLVE PROBLEM FOR JOHNS-MANVILLE

April 1977

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JM Johns-Manville



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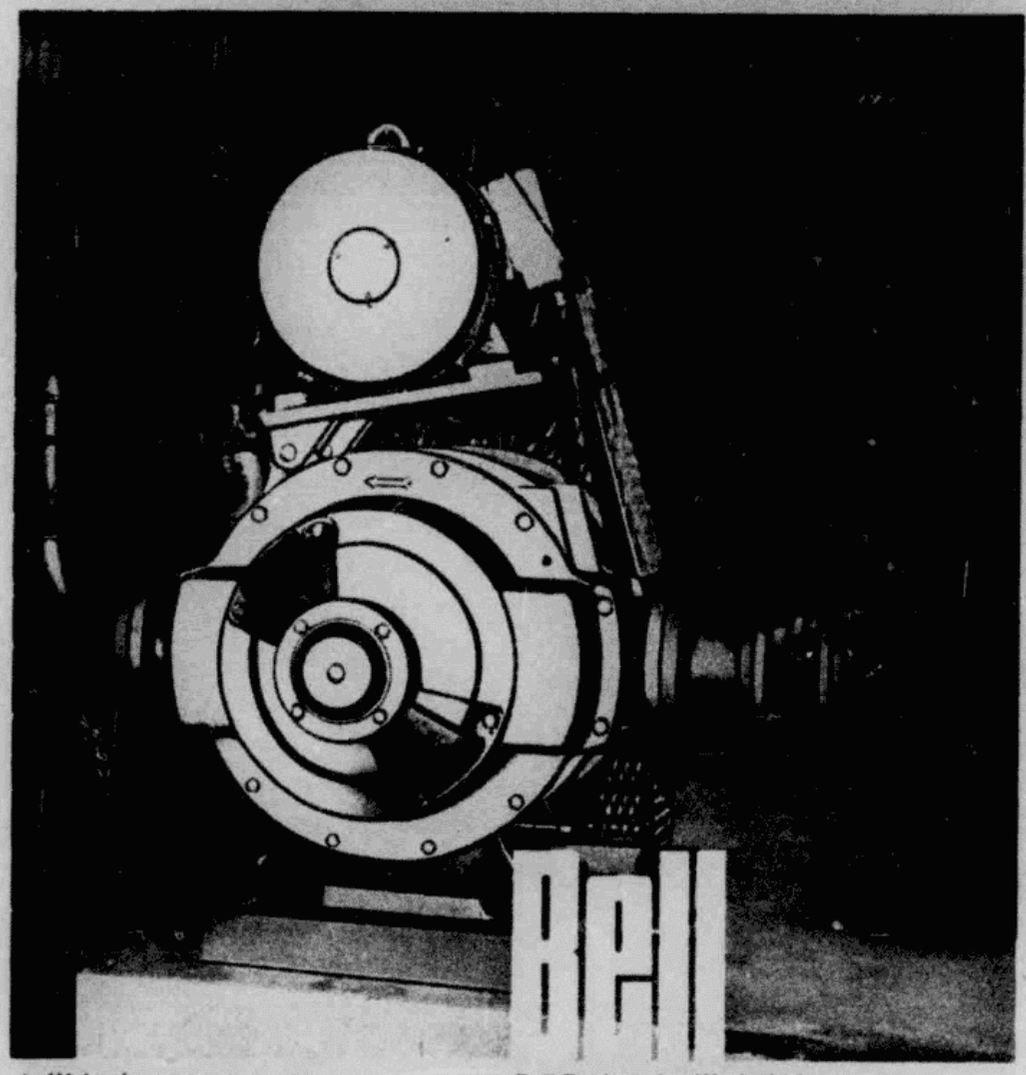
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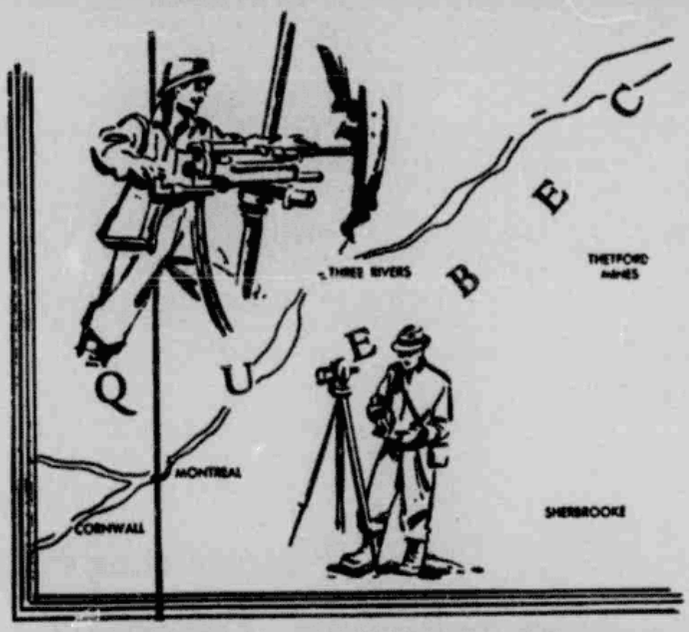
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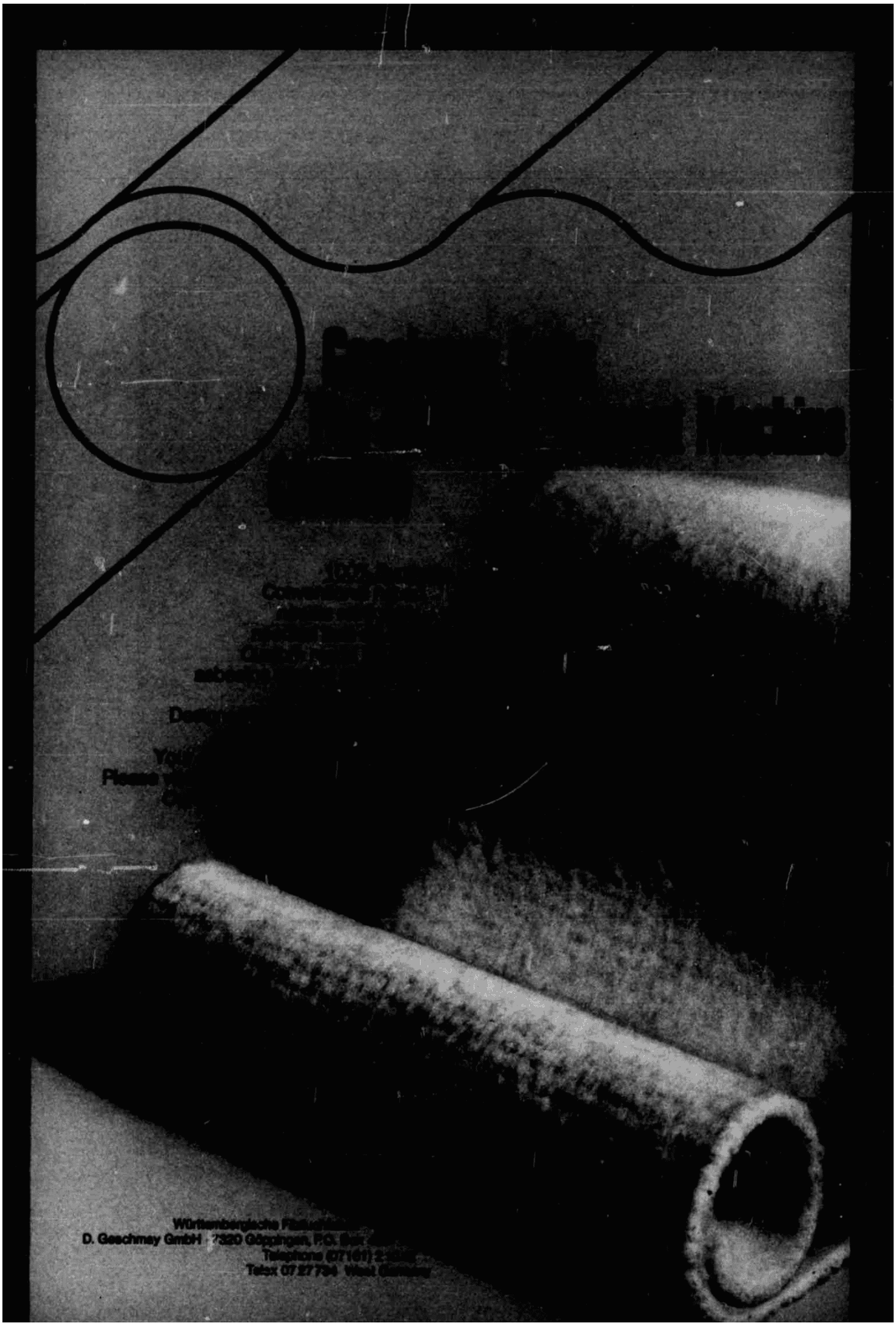
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ASBESTOS

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CONTENTS

VIBRANETICS DISCHARGERS SOLVE J-M PROBLEM 6
OTHER MATERIALS HANDLING & PROCESSING NEWS 7
MARKET CONDITIONS: GENERAL BUSINESS 10
ASBESTOS FIBER DEMAND 12
MOTOR VEHICLE SALES 12
AN ENVIRONMENTAL TOUR THRU THE U.S. 14
PRODUCTION—IMPORTS—EXPORTS 22
CURRENT ASBESTOS PRICES 30
THE MINING SCENE 32
1976 ANNUAL REPORTS: RAYBESTOS-MANHATTAN, INC. 36
ASARCO INCORPORATED 38
THE FLINTKOTE COMPANY & GAF CORPORATION 40
ASBESTOS STOCK QUOTATIONS 42
MEN ON THE MOVE 44
BIRTHDAY GREETINGS 46
NEW ASBESTOS PATENTS 48
VALUABLE LITERATURE 50
CALENDAR OF EVENTS 52

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Asbestos Magazine, 1977, April 1977
ACL Doc 12696 · Page 7 of 61
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MATERIALS HANDLING & PROCESSING

VIBRANETICS DISCHARGERS SOLVE PROBLEM FOR JOHNS-MANVILLE

At its plant in Nashua, New Hampshire, Johns-Manville Corporation manufactures Colorlith, a sheet product made from a mixture of cement, silica and asbestos fibers with an approximate 30% moisture content. The mix can be stored in a hopper for up to eight hours before being used.

Getting this cement mixture to flow smoothly and consistently is a sticky problem and the longer it sets the more unmanageable it becomes. After exploring and discarding several possibilities, Johns-Manville plant engineers concluded the most promising solution was to use vibrating bin dischargers.

Two 10-foot-diameter bin dischargers, made by Vibranetics, Inc., Louisville, Kentucky, were installed directly beneath the storage bins. The units induce a steady, even flow of cement mix from the bins into a rotary pump, after which the mix enters into the production sequence.

The dischargers are cycled by a timer which energizes them for a few seconds and then turns off the power for a few seconds. The on-off cycling initiates momentary vibrations which cause the cement mix in the bins to collapse and slough into the flow stream, thereby avoiding the packing which would clog the outlet and interrupt the flow if the vibrating action were continuous. Cycling was indicated for this particular application because of the nature of the material being handled; the volume being stored, sometimes for relatively long periods; and the rate of discharge. Vibranetics tuned the dischargers to deliver an even flow of material during both the on and the off cycles.

The bin dischargers were installed quickly with the aid of adapter rings which were bolted directly to flanges on the cement bins. A black neoprene inlet seal, held in place with 304 stainless-steel drawbands, connects each adapter ring to the inlet of its discharger. Vibranetics supplied all the components of the assemblies. As an added precaution against separation, each inlet seal was secured with bead rings, on both the adapter ring and the inlet of the dischargers.

The dischargers have a capacity to handle 180 pounds of mixture per minute. They are operated at the J-M plant at controlled rates of between 60 pounds (2 cubic feet) and 180 pounds (6 cubic feet) a minute. Each unit requires a 3hp motor, producing a one-eighth inch stroke at 1800 cycles a minute with a motor force output of 13,000 pounds.

Asbestos Magazine, 1977, April 1977
ACL Doc 12696 · Page 8 of 61
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Johns-Manville reports that the Vibranetics bin dischargers are so effective that the stubborn cement mixture flows readily and smoothly from the hoppers, even after setting for as long as four days.

BENCH SCALE REACTORS

The Bench Scale Equipment Company, Dayton, Ohio, recently released a product bulletin describing its line of *standard reactors* for the complete research and process development spectrum from bench top through pilot plant. Mini-reactors are available in volumes of 1 and 2 liters with interchangeable glass or alloy vessels. These fulfill the needs of basic research and allow accurate scale-up data to be obtained during the research stage. The standard reactors are available in various sizes between 1 and 100-gallon units. They are designed with a choice of turbine or helix agitation systems for mixing viscosities from 1 to 2-million centipoises.

CHASE MARKETS PERTWEE BAG

A *woven polypropylene bag* which holds one ton of any dry, free-flowing material for bulk handling and storage, yet weighs just five pounds, is now being marketed in the United States. It is said that utilization of the bag eliminates the need for pallets, increases efficiency and reduces waste and labor. The bags are woven from 2000 denier strands and are available in four sizes and with one loop for a single-hook crane or with four lifting loops for the two arms on a forklift. In lift tests the bag lifting straps actually held until a load of 5.7 tons was applied. The re-usable bag, called the *mini BULK™*, was recently introduced in the U.S. by Pertwee Industrial Ltd., of Colchester, England. Sales and service in the U.S. are handled by Chase Bag Company, Greenwich, Connecticut.

LEEDS & NORTHRUP ANALYSIS

Leeds & Northrup Company, North Wales, Pennsylvania, advises its *MICROTRAC Particle Size Analysis Instrumentation* provides a practical, field-proven method for continuous monitoring of particle size for process control as well as a precise tool for rapid analysis of the size and distribution of particles. In the

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quality-control or product-development laboratory, the analyzer measures and reports precise distribution data for different samples every two minutes or less. Dry or wet samples can be accommodated and no recalibration or orifice changing is required between samples. In the plant, the unit continuously monitors the process and provides particle-size distribution data on-line, through automatic sampling and sample conditioning. Monitor outputs include signals for recording and alarm needed for operator intervention as well as electrical signals for direct closed-loop control.

PEABODY PRECIPITATORS

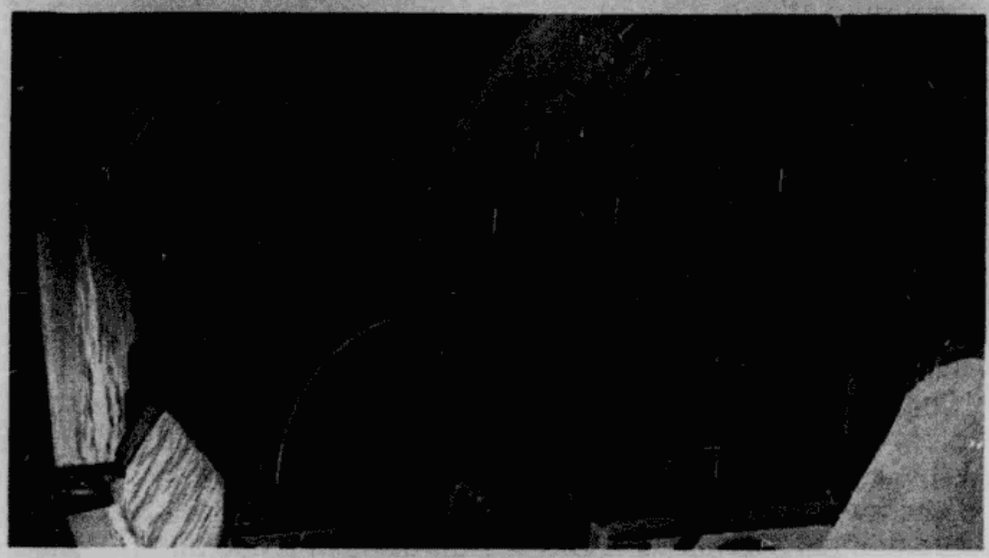
The Peabody line of *dry and wet type electrostatic precipitators* is featured in an 8-page brochure issued by Peabody Air Resources Equipment Company, Princeton, New Jersey, a part of Peabody International Corporation. The literature illustrates various precipitator installations and, via a detailed cutaway drawing, shows the unique rigid discharge electrode frame and the rugged discharge and collector electrode rapping arrangements.

TAYLOR-STILES ROTARY MILLS & BALE OPENERS

Newly-designed Taylor-Stiles *rotary mills* have been added to the line of size reduction equipment being built and marketed by *Day Mixing*, Cincinnati, Ohio. A spokesman for the company says the stainless-steel, high-speed mills have found wide application in a variety of industries where a material must be reduced in size by impact and/or attrition. The heart of a Taylor-Stiles mill is a large diameter rotor with fixed hammers or knives mounted on its circumference which rotate at peripheral speeds reaching 20,000 feet per minute and which reduce the size of fed materials. Each mill is individually engineered for the type of material being processed and the particle size required. . . . Another product of interest to our readers is the Taylor-Stiles *bale opener*, developed to provide a semi-automatic process which increases the number of bales processed per hour and reduces the necessary manpower to one or two operators. The machine receives the bales on a platform where the wires, ropes or hogsheads are normally cut or removed. The bales are then conveyed to a toothed rotor which proceeds to tear the bale apart, casting the fibers out a chute or onto a conveyor for the cutting, shredding or pulverizing operation.

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MARKET CONDITIONS

GENERAL BUSINESS

The anticipated upturn in general business started in February and continued through March although the snapback from January's low levels was not as strong as had been hoped for. As of the end of March, Congress was still debating the Administration's proposed economic stimulus program and had not yet voted affirmatively on any part of it. Every day that passes gives rise to stronger doubts as to whether any stimulus at all is needed but Mr. Carter is now so firmly committed to the program that there seems to be no way he can pull back.

As the haggling continues, the public in general and businessmen in particular await with much interest and not a little foreboding the unveiling of the promised comprehensive energy policy as well as a more recently promised program for fighting inflation.

Considering the tremendous importance of the energy problem and widespread misconceptions as to its causes and possible cures, it is surprising that so little effort has been made to convince the man in the street that the problem is real and that everyone must eventually share the burdens of its solution. If the President's proposals are as drastic as he has hinted they will be, we predict the general public reaction will be one of shocked disbelief. Nevertheless, it will be a great step forward if the facts are presented in such a way that substantially greater numbers of people are made fully aware of the gravity of the problem and of the necessity of promptly arriving at sensible, long-term solutions.

So far as inflation is concerned, latest statistics indicate it is far from dead. Prices continue their upward trend and the pace of increase seems to be accelerating. The proposed economic stimulus (read "spending") program must, by its very nature, contribute to inflation and, thus far, we have seen no concrete proposals for anti-inflationary government policies. It seems the height of naivete to believe that voluntary wage-price restraints, or even mandatory controls, will ever *cure* inflation. At this point in history, the root causes of inflation should be pretty well known. Until we are prepared to attack them and accept the rather bitter medicine which will accompany such action, we have no alternative but to live as best we can with an inflation rate which, judged by experiences of the past, can only be

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termed "unacceptable."

Based chiefly on growing fears of inflation and further nurtured by the fact that capital spending has not yet recovered to the level thought desirable at this point in the economic recovery, the stock market has continued the slow but steady decline which started in January. It seems obvious that there is a lack of confidence in the business community which, unfortunately, the Administration has been unable to overcome. The present image of government in Washington is one of uncertainty in matters both large and small and this is not conducive to the long-range business planning we need to assure a healthy economy a few years down the road.

ASBESTOS FIBER DEMAND

Demand continues strong for Grades 4, 5 and 6 asbestos fibers. Unofficial figures show Canadian shipments of asbestos for the year 1976 totaled 1,685,211 short tons vs. 1,611,406 short tons in 1975. The lower 1975 tonnage figure reflects the seven-month strike at Thetford Mines, Quebec, in 1975.

The unusually severe winter in the eastern half of the United States has adversely affected the sale of fiber to the U.S. market. This trend should reverse with the return of better weather and the resumption of normal industrial production.

Shipments to overseas countries, where large quantities of asbestos-cement grades are consumed, remain relatively strong and should continue so through 1977.

MOTOR VEHICLE SALES

Year 1976—Motor vehicle factory sales from plants in the *United States* totaled 11,476,652 for the year 1976 against 8,985,012 in 1975. The breakdown for the latest year is 8,497,603 passenger cars (up 1,784,751) and 2,979,049 trucks and buses (up 706,889).

Factory sales from plants in *Canada* reached 1,632,558 in 1976 against 1,433,310 in 1975. [Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, Michigan]

NEXT ISSUE—THE SEARCH FOR ASBESTOS SUBSTITUTES

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ENVIRONMENTAL TOUR THRU THE U.S.

BINGHAM CONFIRMED TO HEAD OSHA

Dr. Eula Bingham, Associate Director, Department of Health, University of Cincinnati School of Medicine, was nominated by President Carter to head the Occupational Safety and Health Administration. The nomination was confirmed by the U.S. Senate on March 18, 1977. Dr. Bingham has served as Chairperson of the OSHA Standards Advisory Committee on Coke Oven Emissions and the OSHA Advisory Comrnittee on Carcinogens and with the NIOSH Safety and Occupational Health Study Section. A former analytical chemist in the private sector, she has performed extensive research into environmental carcinogenesis.

During confirmation hearings, Dr. Bingham emphasized hiring the first occupational physicians for OSHA and highly-trained and experienced industrial hygienists as top priority concerns. She outlined safety and health educational programs, stressing "breaking the log jam" of health standards and simplifying their language.

At the Environmental Cancer Conference held last month by the Urban Environment Conference, Dr. Bingham discussed various approaches to control carcinogens, stating that banning the use of substances to control exposure would not be necessary under proper administration of the Toxic Substances Control Act. Viable substitutes must be found before considering banning.

NEW EPA ADMINISTRATOR

On March 4, 1977, the U.S. Senate unanimously confirmed Douglas M. Costle as Administrator of the Environmental Protection Agency. Appropriately, Mr. Costle headed the 1969-70 task force which recommended the creation of EPA. A 37-year-old attorney with broad experience in Federal and State environmental matters, he is former Commissioner of Connecticut's Department of Environmental Protection and recent Assistant Director for Natural Resources and Commerce for the Congressional Budget Office.

During confirmation hearings, Mr. Costle said that America needs economic growth but it must be accompanied by a continuing, effective program of pollution control. "The costs of pollution control are substantial, but the record since 1970—and estimates of future impact—clearly show that the costs are tolerable and sustainable for our economy," he said. Mr. Costle

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further stated that sources not yet meeting pollution control requirements must be brought into compliance and that non-compliance fees may be an effective incentive.

IMPACT OF ASBESTOS LITIGATION

Since 1975 more than 400 asbestos workers have sued the U.S. Government, claiming the Department of Health, Education and Welfare failed to warn them of the disabling lung disease called asbestosis. HEW said it issued a "timely" warning in 1971. Departmental lawyers fear if the courts rule against the Government, "the effect would be to set up a judicial workmen's compensation scheme for every industry in which the Federal Government had studied the health hazards involved." In an HEW memorandum it was stated, "It is not unlikely this rationale could be extended to include every industry in which the Federal Government should have studied the health hazards."

ASBESTOS COMPENSATION BILL

U.S. Representative Millicent Fenwick (R-NJ) and her staff have been working with industry, labor and the medical community on a bill to provide compensation to workers having disease causally related to asbestos exposure. Under the present draft concept, compensation would be derived from general Federal revenues for the first two years, after which industry-financed funds would be the source of payments.

THE DIAGNOSIS WAS WRONG!

As a result of a pediatrician's diagnosis that a young boy's respiratory illness might be the result of inhaling asbestos particles that had flaked from the ceilings in his school, six elementary schools in Howell Township, New Jersey, were closed for a month while the asbestos-sprayed ceilings were removed and replaced at a cost of $60,000. As parental concern grew, many other schools in the State commenced the taking of dust counts to determine the asbestos fiber levels in their classrooms. After the spending of a good deal of time and money, and upsetting the education of some 3300 children, the student's physician ultimately announced the sickness as mononucleosis, not related in any way to asbestos exposure.

As often occurs when emotions run high, common sense does not always prevail and the concern soon spread throughout the nation. Administrators of school systems in California, Connecticut, Illinois, Massachusetts, New York, North Carolina, Oklahoma, Oregon, Texas and Washington, to name a few,

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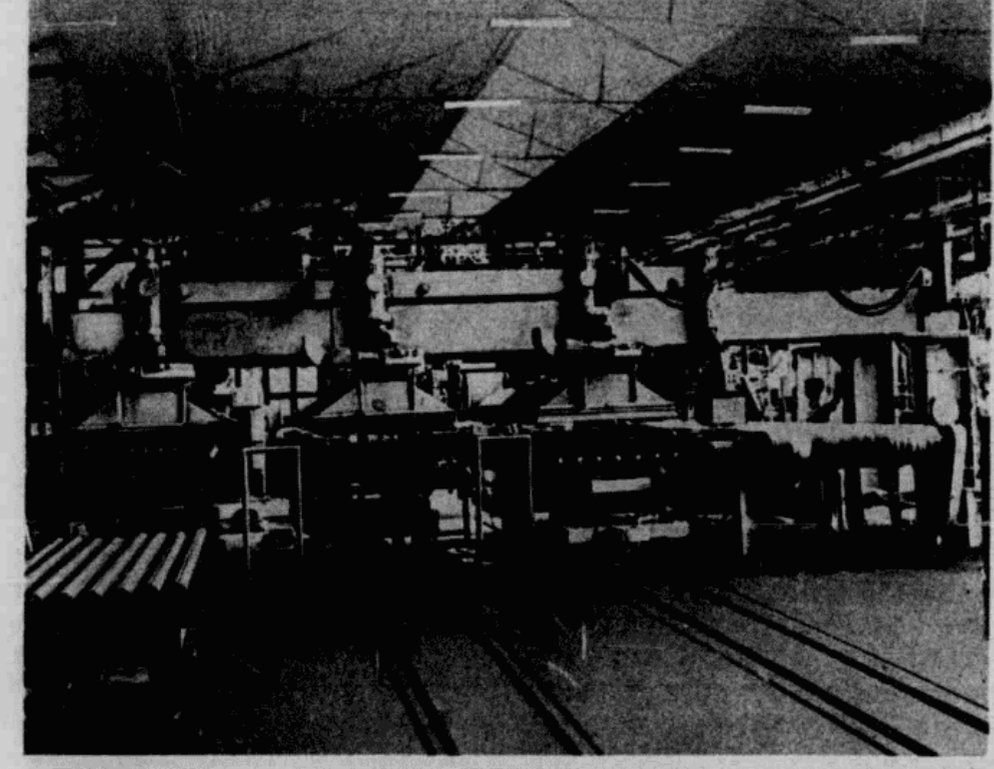
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directed their maintenance staffs to check air concentrations of asbestos fiber, to look for "flaking ceilings" and to search back records to determine if asbestos-sprayed materials had been used in the original construction of the school buildings.

Rossnagel & Associates, Inc., the engineering and testing consultants hired by the New Jersey Department of Environmental Protection to conduct the air tests in the Howell Township schools, have recommended an alternative to complete ceiling removal and replacement which makes good sense to us. Where an asbestos-sprayed ceiling is high enough to preclude deliberate damaging by vandalism, R&A suggests the consolidation of the asbestos substrate by application of a hydrophobic polyguard asbestos treatment which dries in two hours, has no odor and can be applied for a reasonable cost. The consulting firm repeated the findings of medical experts at Mt. Sinai Hospital, i.e., that an asbestos ceiling which is not being vandalized or otherwise disturbed and is not flaking or powdering, is considered safe. If in doubt, additional testing should take place before too-quick and unnecessary action is taken.

TYLER ASBESTOS WORKERS PROGRAM

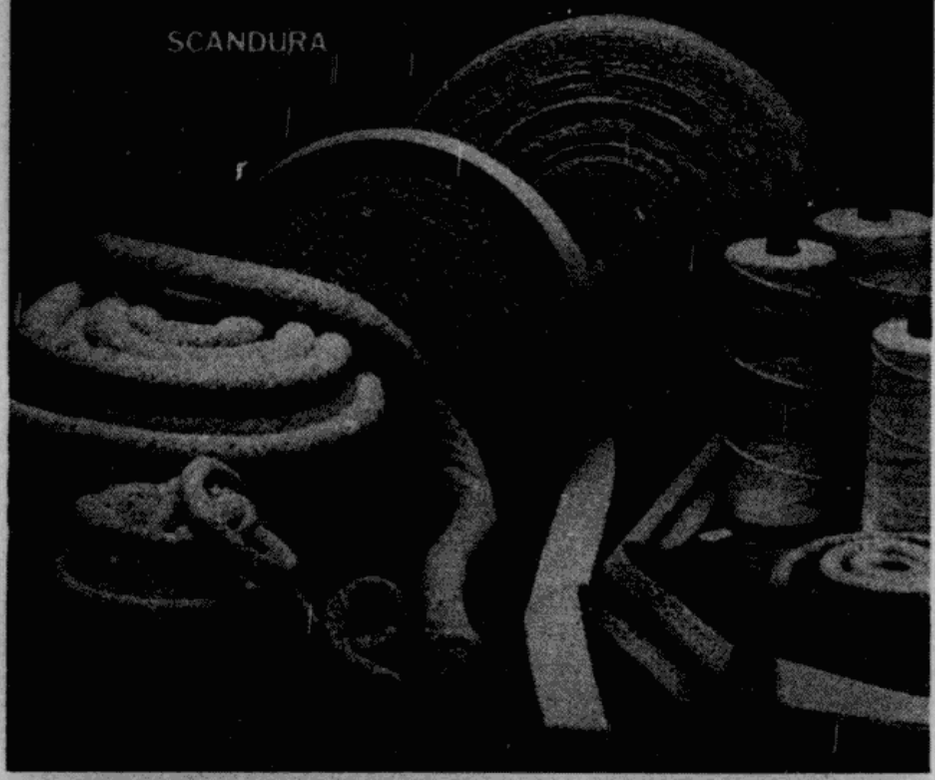
An innovative cancer control program in Tyler, Texas, has hospitalized, for lung-related problems, 116 of approximately 672 former workers at an asbestos pipe insulation plant, it was announced by The University of Texas System Cancer Center. The Tyler Asbestos Workers Program (TAWP) is located at the East Texas Chest Hospital, where past workers of the plant formerly operated by Pittsburgh-Corning Corporation are semi-annually undergoing complete physical examinations. The plant was closed in 1972. TAWP is funded by a contract from the National Cancer Institute to the Texas Chest Foundation.

When a former worker reports for a check-up, he is introduced to an interviewer who records his medical history. The medical portion of the visit includes a sputum sample from the lungs, a blood sample, a breathing test to evaluate lung function, a chest x-ray and an electrocardiogram. The sputum examination is used to detect the presence of malignant or pre-malignant cell changes; thus, lung cancer may be detected at a stage when it is too small to be visible on an x-ray and, as a result, treatment can begin much earlier and the survival rate enhanced appreciably. If a medical problem appears, the worker is notified to seek treatment from his private physician or is referred to the outpatient clinic of the East Texas Chest Hospital. More than 178 of the former workers have visited the clinic for lung-related problems since the program began in 1974.

Working in conjunction with TAWP, the Smoking and Health

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Information Program (SHIP) encourages current smokers to abandon or modify smoking habits and discourages others from initiating or resuming the habit. Evidence exists which indicates that when former asbestos workers stop smoking, the death rate from lung diseases may drop significantly.

AIA/NA OPENS MEMBERSHIP

The Asbestos Information Association/North America recently revised its By-Laws to provide for the addition of an Associate Membership classification, thereby encouraging participation in its work by broader representation within the asbestos-using industrial community. Regular Membership is open to companies located or doing business in North America which are involved in a primary asbestos industry. Associate Membership is available to companies which continue the manufacturing process and to consumer industries. To date the response has been good, with a number of firms having been processed for membership. Interested parties should address their enquiries to AIA/NA, 1835 K Street, N.W., Washington, D. C. 20006.

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PRODUCTION—IMPORTS—EXPORTS

IMPORTS INTO THE UNITED STATES

From: U.S. Bureau of the Census

		DECEMBER 1976	
UNMANUFACTURED ASBESTOS:			
Amosite, Republic of South Africa	s.tons	210	$ 117,280
Crocidolite (Blue), South Africa	s.tons	2,223	1,211,327
Chrysotile Crudes, Canada	s.tons	82	35,551
Rhodesia	s.tons	1,395	306,499
South Africa	s.tons	613	357,627
Chrysotile Spinning Fibers, Canada	s.tons	314	311,066
Chrysotile, Other, Canada	s.tons	47,174	9,635,100
Mexico	s.tons	4	807
Other Crudes & Fibers, Canada	s.tons	1,090	171,559
Mexico	s.tons	1,000	115,539
South Africa	s.tons	296	149,295
USSR	s.tons	2,414	419,446
		56,815	$ 12,831,096
MANUFACTURED ASBESTOS PRODUCTS:			
Asbestos yarn, cloth, tape, etc.	Lb	781,416	$ 1,077,235
A-C pipes, tubes & fittings	Lb	1,048,493	103,520
Other asbestos-cement articles	Lb	969,854	176,965
Other asbestos articles		..	553,653
			$ 1,911,373
		YEAR 1976	
UNMANUFACTURED ASBESTOS:			
Amosite, Canada	s.tons	20	$ 469
South Africa	s.tons	1,554	716,568
Crocidolite (Blue), Australia	s.tons	99	46,498
South Africa	s.tons	10,177	5,193,615
Chrysotile Crudes, Canada	s.tons	635	271,525
Mexico	s.tons	378	208,862
Rhodesia	s.tons	3,451	2,099,351
South Africa	s.tons	1,745	1,020,886
United Kingdom	s.tons	564	282,238
Chrysotile Spinning Fibers, Canada	s.tons	5,872	4,613,418
Rhodesia	s.tons	247	207,888
South Africa	s.tons	61	37,510
Chrysotile, Other, Canada	s.tons	592,671	118,929,252
Germany, West	s.tons	1,086	202,826
Mexico	s.tons	39	9,141
South Africa	s.tons	423	240,020
Other Crudes & Fibers, Canada	s.tons	18,397	3,047,870
Germany, West	s.tons	823	179,840
Hong Kong	s.tons	2	345
Mexico	s.tons	1,052	137,163
South Africa	s.tons	6,134	2,376,359
USSR	s.tons	12,421	2,323,372
		657,851	$142,145,016

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U.S. IMPORTS—CONTINUED

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	7,618,846	$ 10,501,826
A-C pipes, tubes & fittings	Lb	11,011,045	1,094,265
Other asbestos-cement articles	Lb	19,033,319	3,024,348
Other asbestos articles		..	6,095,488
			$ 20,715,927

AUSTRALIAN A/C SHEET PRODUCTION

Production in Australia of flat, corrugated, molded and grooved asbestos-cement sheets for the *Quarter Ended September 1976* totaled 11,844,000 square meters, 1613 square meters more than in the quarter to September 1975 but 733 square meters less than during the three months ended September 1974. [Australian Bureau of Statistics]

CANADIAN FIBER SHIPMENTS

Shipments of asbestos by primary Canadian producers (including tonnage for own use) amounted to 121,856 short tons in *January 1977*, 331 tons less than in January 1976 but 7692 tons more than in the initial month of 1975. The breakdown for January 1977 was 97,824 tons from Quebec plants and 24,032 tons from plants in Newfoundland, Ontario, British Columbia and the Yukon. [Statistics Canada]

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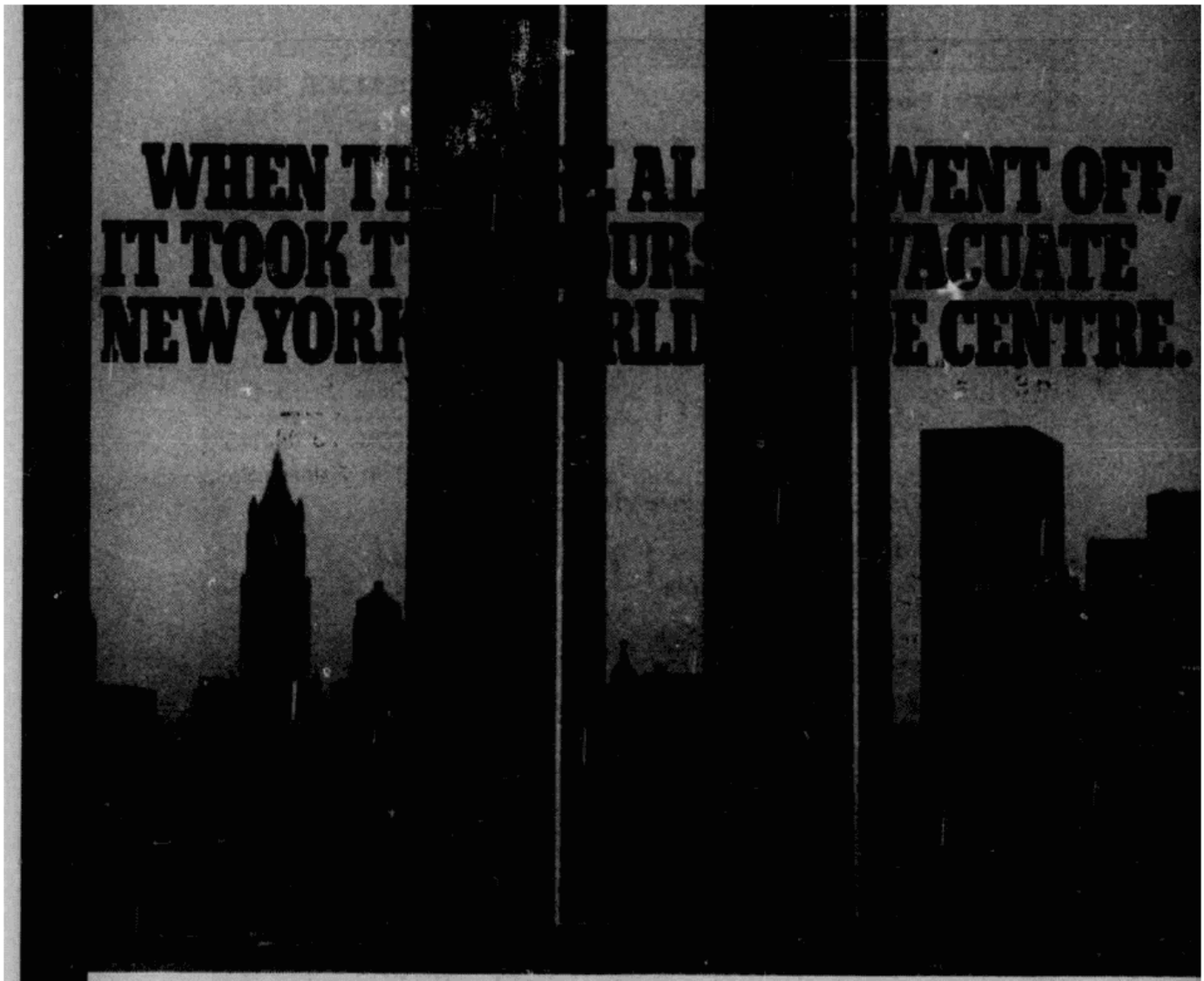
EXPORTS FROM THE UNITED STATES

From: U.S. Bureau of the Census

UNMANUFACTURED ASBESTOS:		DECEMBER 1976	
Fibers not further processed than beaten, washed or graded to length	s.tons	948	$ 436,046
Waste and refuse	s.tons	1,948	342,542
		2,896	$ 778,588
MANUFACTURED ASBESTOS PRODUCTS:			
A-C shingles & clapboard	Lb	300,860	$ 45,324
Other a-c fiber-cement articles	Lb	6,286,778	1,551,303
Gaskets	Lb	36,631	103,068
Packing	Lb	401,609	1,056,481
Heat or sound insulation		..	382,560
Textiles & yarns	Lb	1,031,246	902,914
Protective clothing		..	87,040
Mfrs. other than friction materials		..	938,613
Clutch facings & linings for auto. use	No	34,632	70,048
Other clutch facings & linings	No	19,819	33,074
Brake linings for automotive use	Lb	723,209	710,422
Other brake linings	Lb	146,443	264,770
			$ 6,145,617

UNMANUFACTURED ASBESTOS:		YEAR 1976	
Fibers not further processed than beaten, washed or graded to length	s.tons	21,470	$ 7,178,951
Waste and refuse	s.tons	24,847	5,461,094
		46,317	$12,640,045
MANUFACTURED ASBESTOS PRODUCTS:			
A-C shingles & clapboard	Lb	21,219,260	$ 3,546,550
Other a-c fiber-cement articles	Lb	30,302,153	6,325,886
Gaskets	Lb	658,591	1,675,035
Packing	Lb	4,261,065	9,654,905
Heat or sound insulation		..	4,818,702
Textiles & yarns	Lb	15,043,951	7,906,509
Protective clothing		..	897,516
Mfrs. other than friction materials		..	12,252,755
Clutch facings & linings for auto. use	No	690,921	1,293,145
Other clutch facings & linings	No	316,630	367,400
Brake linings for automotive use	Lb	10,087,912	8,555,509
Other brake linings	Lb	2,390,311	2,979,736
			$60,273,648

Asbestos Magazine, 1977, April 1977
ACL Doc 12696 · Page 25 of 61
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P.O. Box 1367, Auckland, **N.Z.**
Other representatives world-wide.

EXPORTS FROM CANADA

From: Statistics Canada

DECEMBER 1976
Short Tons

UNMANUFACTURED ASBESTOS:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	1,360	31,212	13,963
Eastern Europe	..	..	800	420
Middle East	..	..	907	286
Africa	..	..	2,110	1,866
Asia	..	968	10,371	13,593
Oceania	..	..	5,041	529
So. & Cen. America & Antilles	..	218	9,616	2,979
United States	..	641	8,963	39,409
	..	3,187	69,020	73,045

The total amount of unmanufactured asbestos exported in *December 1976* was 145,252 short tons, valued at $45,559,000.

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos cloth, dryer felts & sheets	$ 80,000
Asbestos brake linings & facings	300,000
Asbestos-Cement building materials	595,000
Other basic asbestos products	261,000
	$1,236,000

YEAR 1976

UNMANUFACTURED ASBESTOS:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	64	12,482	329,953	170,480
Eastern Europe	..	714	13,244	3,277
Middle East	..	215	15,805	7,479
Africa	..	..	13,673	7,453
Asia	3	2,973	101,229	142,361
Oceania	..	7	52,919	6,653
So. & Cen. America & Antilles	..	2,012	85,728	34,969
United States	46	7,723	135,818	469,852
	113	26,126	748,369	842,524

The total amount of unmanufactured asbestos exported in *the Year 1976* was 1,617,132 short tons, valued at $472,705,000.

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos cloth, dryer felts & sheets	$ 2,423,000
Asbestos brake linings & facings	1,740,000
Asbestos-Cement building materials	8,067,000
Other basic asbestos products	2,644,000
	$14,874,000

Asbestos Magazine, 1977, April 1977
ACL Doc 12696 · Page 27 of 61
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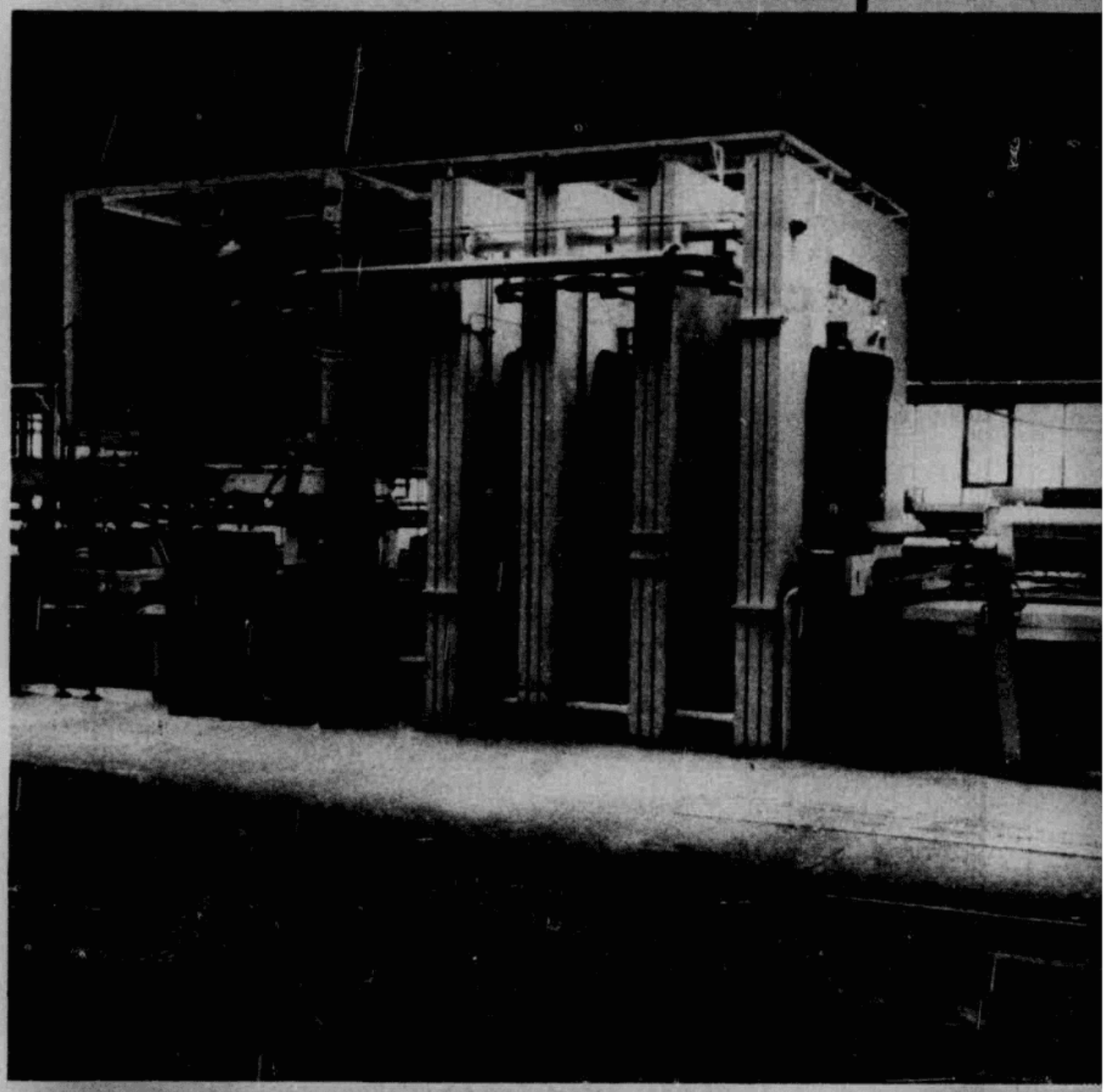
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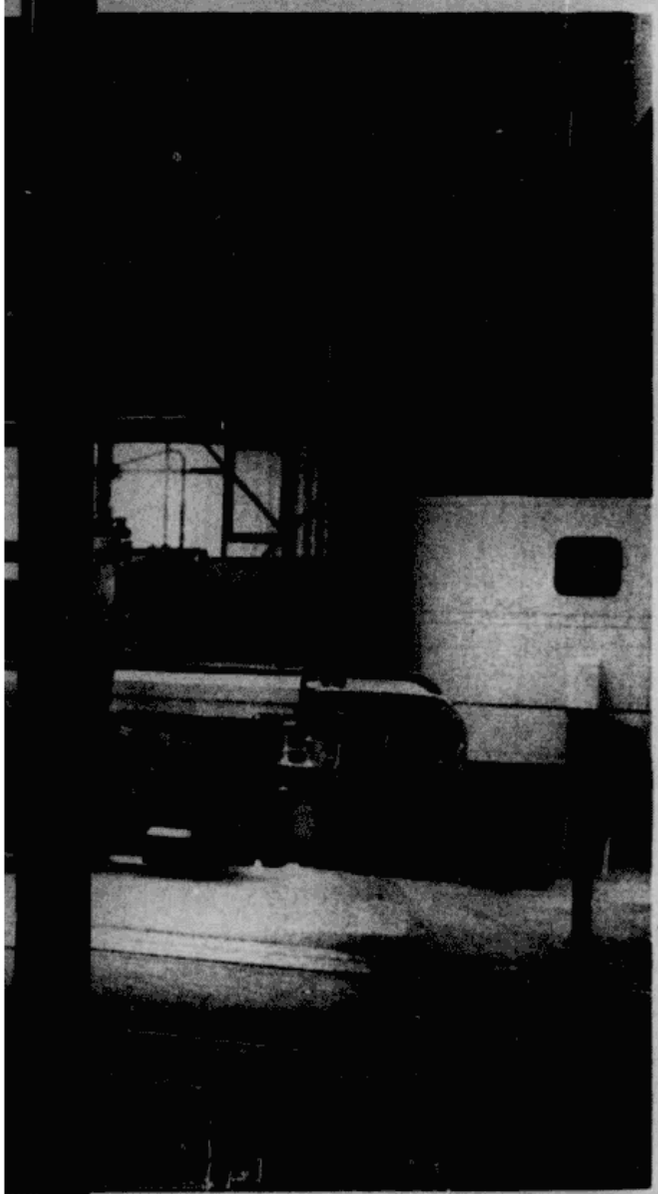


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flat and corrugated asbestos-cement sheets
asbestos-cement pipes



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CURRENT ASBESTOS PRICES

ARIZONA *Per Ton of 2000 Lbs., F.O.B. Globe, Arizona*
As of July 1, 1976 *U.S. Dollars*

No. 1 Crude (Soft)	$ ..	$3000.00
No. 2 Crude (Soft)	..	1800.00
AAA	..	1300.00
Group No. 3—Nonferrous Filtering—Plastic	750.00—	840.00
Group No. 4—Nonferrous Filtering—Plastic	750.00—	840.00
Group No. 7—White Shorts	100.00—	200.00

QUEBEC *Per Ton of 2000 Lbs., F.O.B. Mine*
As of January 1, 1977 *Canadian Dollars*

No. 1—Crude	$3300.00—	$4000.00
No. 2—Crude	1800.00—	2175.00
No. 3—Spinning Fiber	850.00—	1700.00
No. 4—Asbestos Cement Fiber	465.00—	950.00
No. 5—Paper Fiber	315.00—	435.00
No. 6—Paper and Shingle Fiber	230.00—	275.00
No. 7—Shorts	85.00—	200.00

CASSIAR *Per ton of 2000 Lbs., F.O.B. North Vancouver, B.C.*
As of December 1, 1976 *Canadian Dollars*

Cassiar Mine

C-1	—No. 1 Crude	$3621.00
AAA	—Nonferrous Spinning Fiber/Canadian Group 3	2093.00
AA	—Nonferrous Spinning Fiber/Canadian Group 3	1664.00
A	—Nonferrous Spinning Fiber/Canadian Group 3	1267.00
AC	—Nonferrous Spinning Fiber/Canadian Group 3	913.00
AK	—Asbestos Cement Fiber/Canadian Group 4	651.00
AS	—Asbestos Cement Fiber/Canadian Group 4	563.00
AX	—Asbestos Cement Fiber/Canadian Group 5	516.00
AY	—Asbestos Cement Fiber/Canadian Group 5	362.00
AZ	—Asbestos Cement Fiber/Canadian Group 6	268.00

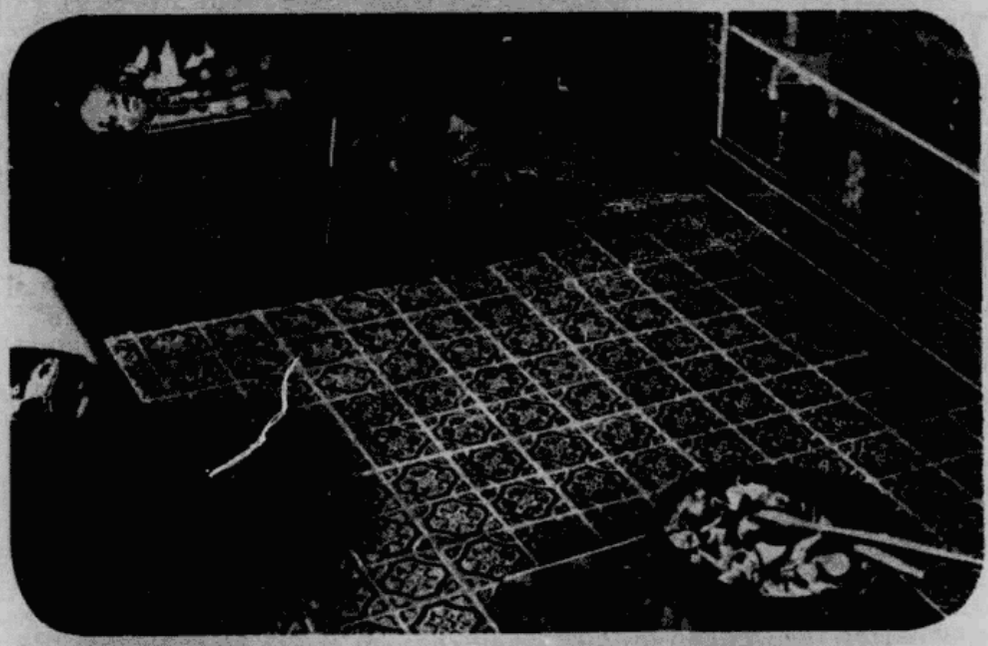
Clinton Mine

CP	—Asbestos Cement Fiber/Canadian Group 4	611.00
CT	—Asbestos Cement Fiber/Canadian Group 4	553.00
CY	—Asbestos Cement Fiber/Canadian Group 5	362.00
CZ	—Asbestos Cement Fiber/Canadian Group 6	268.00

VERMONT *Per Ton of 2000 Lbs., F.O.B. Morrisville, Vermont*
As of January 1, 1977 *U.S. Dollars*

Grade 4T—Fiber	$ ..—	$ 477.00
Grades 5D thru 5R—Fiber	314.00—	369.00
Grade 6D—Waste	..—	228.00
Grades 7D thru 7T—Shorts	95.00—	182.00
Grade 7TF—Floats (Shorts)	..—	82.00
Grade 8S—Shorts	..—	62.00
Hooker No. 1—in 50-lb. woven polypropylene bags		1110.00
Hooker No. 2—in 100-lb. woven polypropylene bags		555.00

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Asbestos Magazine, 1977, April 1977
ACL Doc 12696 · Page 32 of 61
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THE MINING SCENE

WOODSREEF OFFERS OPTIONS

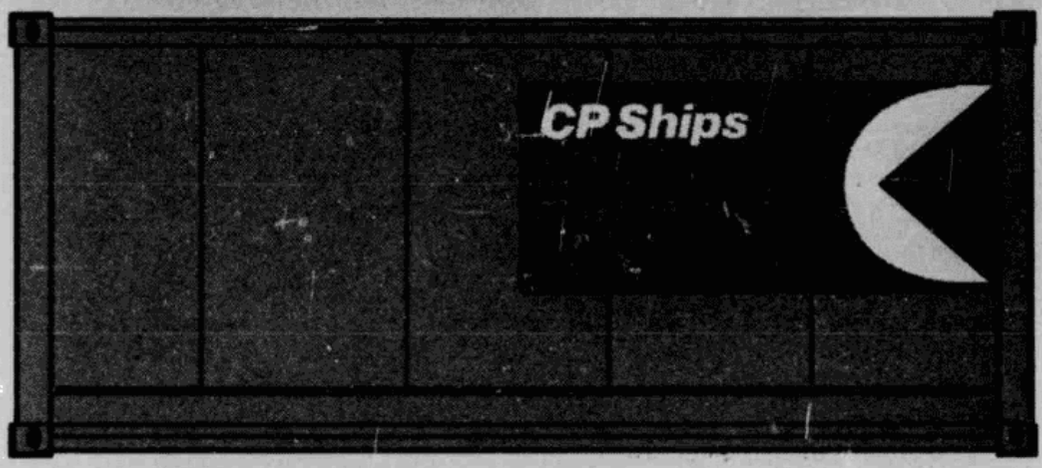
In August 1976 Woodsreef Minerals Ltd., the Canadian parent company of *Woodsreef Mines Ltd.*, near Barraba, N.S.W., Australia, offered The Commercial Bank of Australia Ltd. options to purchase 13,711,521 shares in the Australian firm which, at present, are owned by Woodsreef Minerals. If the options are exercised it would reduce the parent firm's holding in Woodsreef Mines to 50%. Under the terms of the options, which were formally approved by The Toronto Stock Exchange on January 25, 1977, the Bank may purchase 7,152,857 shares at 14¢ and a further 6,568,664 shares at 30c. Both options will be conditional on the conclusion of fresh arrangements for the future financing of the group in Australia. . . . Production at the asbestos mine near Barraba was 14,196 metric tons in the quarter ended January 31, 1977. Shipments during the same period totaled 12,402 tons. Projections for the remainder of 1977 based on current production levels and forecast ore values indicate the company should operate profitably from March onwards. The name "Yulgilbar Exploration Ltd.," a wholly-owned subsidiary of Woodsreef Mines, was officially changed to "Clarence River Exploration." The diamond drilling program being carried out at Baryulgil, 66 kilometers northwest of Grafton, N.S.W., is continuing. Because of the company's extensive commitments at Baryulgil, three of the exploration license areas held by Chrysotile Corporation of Australia Pty. Ltd. have been surrendered as the company would not be able to meet adequately the financial requirements of the N.S.W. Department of Mines. A fourth exploration license area near Manilla, N.S.W., is under investigation with the initial features considered significant in the localization of Chrysotile asbestos. This exploration license is located some 25 kilometers south of the Woodsreef Mine.

PROGRESS AT DAFFODIL

Great Northern Pulp & Paper Group Ltd. has appointed the consulting firm of Watts, Griffis and McOuat Ltd. its exclusive agent for further exploration and development of the Daffodil asbestos property, situated six miles southeast of Timmins, Ontario. A considerable amount of interest has recently been shown in the property by several senior mining companies, perhaps due in part to the continued strong pricing structure for all grades of asbestos fiber coupled with the unsettled conditions in the asbestos industry in Quebec. WGM reported that mapping and drilling to date have indicated at least five fiber zones, almost exclusively on two mining claims. The two principal zones to a depth of 500 feet have an inferred reserve of 20-million tons. In the opinion of WGM, the Daffodil asbestos property has "the potential to join

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ACL Doc 12696 · Page 33 of 61
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the ranks of the major producers." The consulting firm recommends a work program in three stages. The first stage would take about four months to complete and would consist of confirmatory diamond drilling and core testing at an estimated cost of $135,000. The second stage would consist of reserve drilling and bulk sampling at a cost of $930,000 over a period of about a year. The third stage would include the completion of studies and the design and costing of the plant and equipment for the planned operation. Directors of Great Northern are hopeful that financing arrangements can be finalized quickly to enable the proposed work program to begin as soon as weather conditions permit.

TURKEY PURCHASES ASBESTOS MILL

Asbestos Grading Equipment Company S.A. (Pty) Ltd., Johannesburg, Republic of South Africa, has sold an asbestos mill to Turkey. Valued at over R1-million, the plant includes mills, screens and cleaning equipment and was designed by R. Bourne, Managing Director of AGE. It will be used to process Chrysotile asbestos for local Turkish use, considerably reducing that country's dependence on imports of the mineral fiber. AGE began operations 25 years ago by specializing in asbestos processing equipment and over the years has established an extensive range of equipment in use at all asbestos mines in South Africa including extraction plants, screening plants and mechanical handling equipment for use in and outside the asbestos industry. For the past 15 years the company has been exporting its asbestos processing equipment to several countries in Europe and the Middle East.

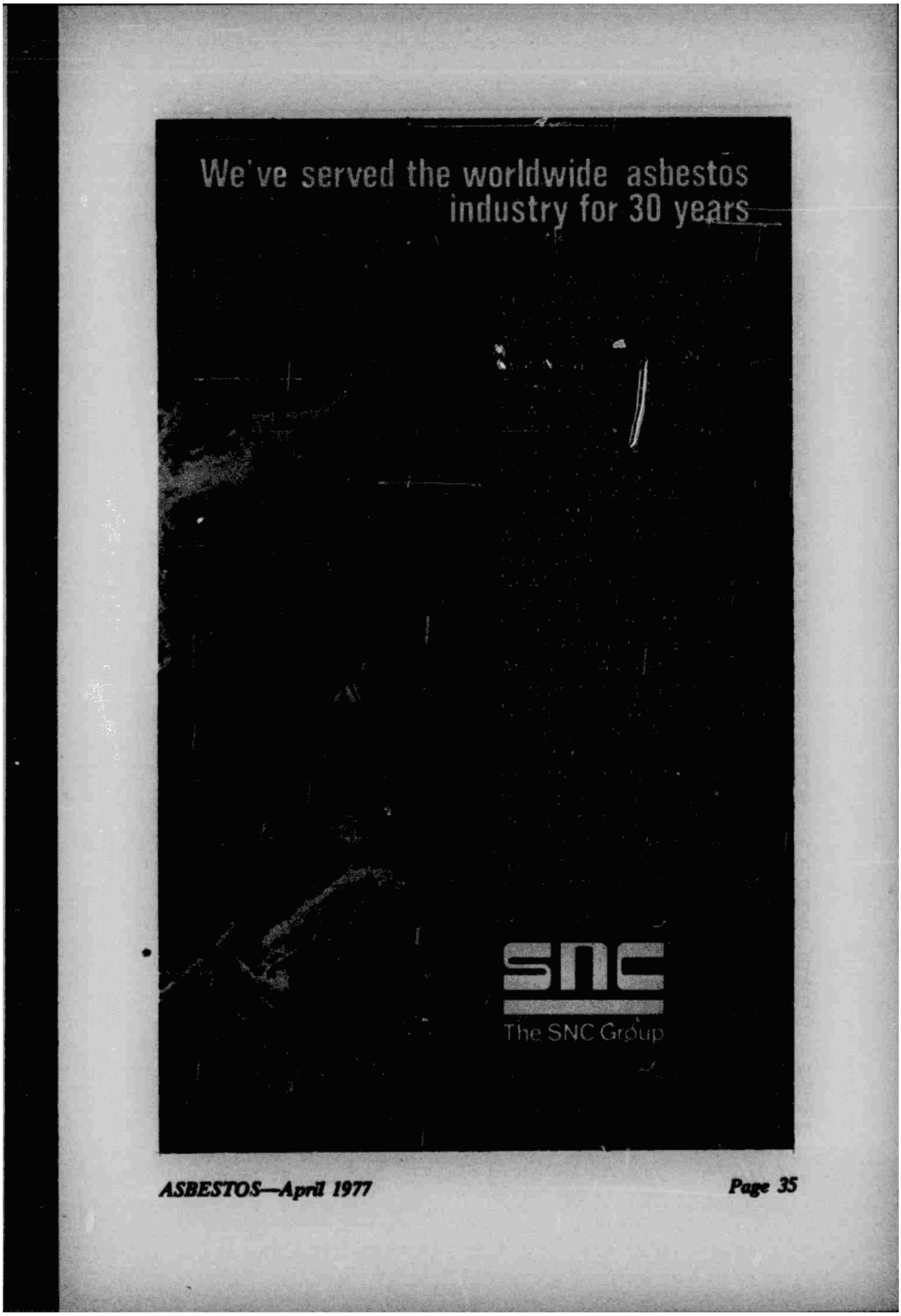
ASBESTOS IN OMAN

In an Economic Trends Report from the U.S. Department of State, it was reported that the *Government of the Sultanate of Oman* is seeking to develop mineral deposits in the northern part of the country. It further stated that asbestos is present in commercially-producible amounts and would be used for local industry.

METAL RECOVERY FROM ASBESTOS TAILINGS

The *Quebec Department of Natural Resources* is to undertake a pilot project to recover nickel-bearing iron ore from asbestos tailings. The project is being done in cooperation with Canadian Johns-Manville Co. Ltd., using test facilities at the C.J-M mill in Asbestos, Quebec, and the Provincial Mineral Research Center. If the experiment is successful it would permit recovery of 80-120 pounds of nickel-bearing ore from each ton of asbestos residue.

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ANNUAL REPORTS—1976

RAYBESTOS-MANHATTAN, INC.

Raybestos-Manhattan, Inc., reported an improvement in operating results during 1976, with most of its separate businesses showing improvement over the previous year. Total sales in 1976 were $238,585,000, representing a 13.2% increase over 1975. Net income after tax was $8,780,000 or $5.38 per share, up 13.2% over 1975. Friction materials sales, which represent 73.7% of the corporation's total sales volume, rose 13.3% to $175,839,000. Rivets and rivet-setting machine sales, which comprise 7.8% of total sales volume, were up 46.8% to $18,569,000. Sales of other industrial products, which amount to 18.5% of R/M's total sales volume and include asbestos textiles, packings, gaskets, seals, expansion joints, elastomer products and rubber coverings for rolls, were $44,177,000 in 1976, an increase of 3.2% over 1975.

Environmental—The outlook for future asbestos regulations is uncertain because OSHA has not taken action on its proposed ruling published October 9, 1975, which calls for a drastic reduction in permissible exposure limits. Expert independent medical and engineering testimony submitted to OSHA indicates the proposed regulations are not warranted by existing scientific knowledge and are neither technically nor economically feasible for important segments of the asbestos products industry. The issue has been further clouded by a recommendation submitted by NIOSH to OSHA in December which calls for a lowering of the permissible exposure limit to a level one-fifth of that proposed by OSHA. Raybestos-Manhattan believes the NIOSH recommendation is so extreme as to be totally unrealistic and impracticable. Although the company is hopeful the OSHA proposal will not be implemented in its original form, it feels it is prudent to anticipate some tightening of existing regulations which will inevitably result in cost increases for the industry.

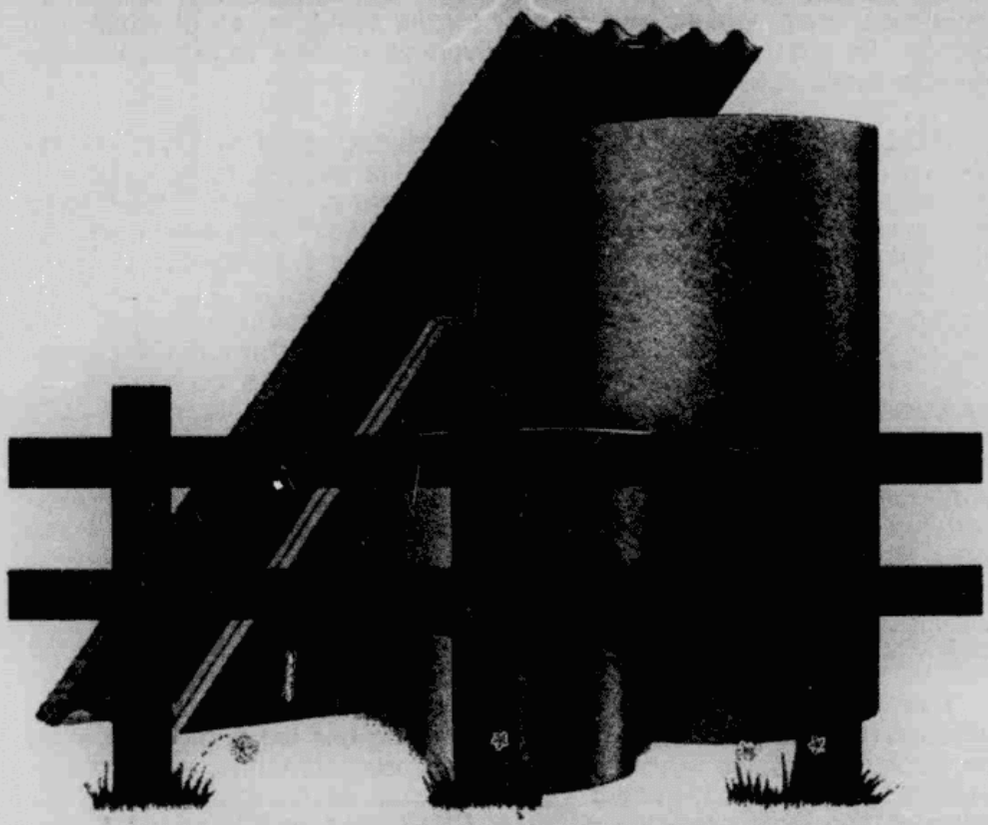
RM Friction Materials Company—This R/M company has commenced a $4.8-million program to expand capacity and modernize manufacturing processes for automatic transmission parts for passenger cars and to introduce new manufacturing technology in the production of "wet friction" components to meet the steadily-increasing demands of the heavy-duty, off-highway market.

New manufacturing processes are under development for asbestos-containing products where a potential exists for excessive airborne asbestos fiber levels. Results achieved to date include a new non-yarn-based clutch facing and new processes for brake blocks and disc brakes.

Raybestos Manhattan Industrial Products Company—The corporation's program for restructuring its asbestos yarn and textile manufacturing operations is proceeding on schedule. The four-year, $11-million undertaking is based on expansion of the proprietary "wet process" system of manufacturing NOVATEX asbestos yarn, which operates

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within OSHA standards for airborne dust concentrations. Under the program, NOVATEX yarn capacity will be increased to the level necessary to replace conventional yarn for most of R/M's textiles, packings and seal products. From a product application standpoint, NOVATEX offers advantages in yarn uniformity, better thermal insulation properties, lower weight and greater tensile strength, all of which will improve its cost/performance attractiveness relative to conventionally manufactured asbestos textiles.

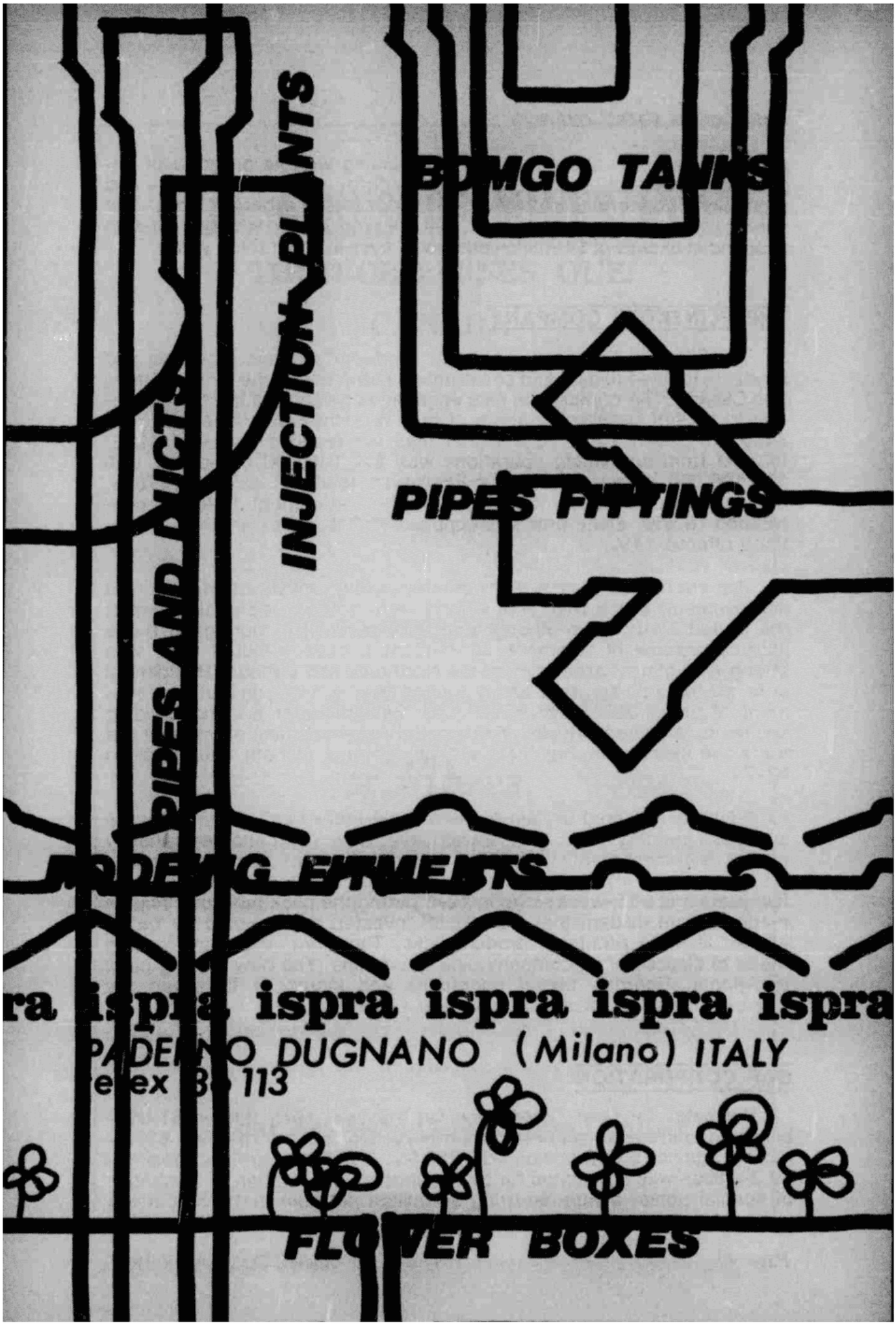
R/M International—The new manufacturing plant at Cork, in the southern portion of the Republic of Ireland, is nearing completion and should be in operation during the second quarter of this year. It will have the capacity to annually produce ten-million disc brake pads, primarily for export to countries in the European Economic Community. The new Daikin-R/M plant at Hokkaido, Japan, which operates as a joint venture, is producing automatic transmission friction discs for original equipment makers of automotive and industrial equipment. Manufacturas Multiples, S.A., Caracas, Venezuela, another joint venture, has completed the substantial installation of an asbestos yarn producing facility. R/M's wholly-owned subsidiary in Radevormwald, West Germany, continues to increase its efficiency in developing and manufacturing products for world-known European manufacturers. The facility in Dandenong, Australia, continues its program of diversification into asbestos textiles and other friction materials.

ASARCO INC.

Asarco Inc. is a major world producer of nonferrous metals, although its expertise in exploration and mining has led to diversification into such nonmetallic minerals as asbestos, coal, ilmenite, sand, gravel and limestone. Wholly-owned Lake Asbestos of Quebec Ltd., which operates two large asbestos mines at Black Lake and Thetford Mines, Quebec, accounts for about 15% of Canadian production of asbestos. Another Asarco subsidiary, Cement Asbestos Products Company, manufactures asbestos-cement pipe at Birmingham & Ragland, Alabama. Asarco reported net earnings for the year ended December 31, 1976, were $42,313,000 or $1.58 per share, compared with $25,438,000 or 95¢ per share in 1975. Sales of products and services for the year 1976 were valued at $1,103,737,000 compared with $1,004,638,000 in 1965.

Lake Asbestos of Quebec Ltd. set new records for production, sales and profits in 1976. Asbestos production totaled 248,000 short tons in 1976 against 90,300 tons in 1975 and 232,400 tons in 1974. Asbestos sales reached 247,000 tons in 1976 compared with 97,900 tons in 1975 and 230,300 tons in 1974. A continuing increase in worldwide use of asbestos plus pent-up demand caused by the seven-month strike in 1975 were prime factors in the strong performance in 1976. The asbestos operations earned $17,298,000 for Asarco, before taxes, compared to a minor loss in 1975 when the mines were severely curtailed by the afore-

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mentioned strike. Lake Asbestos is continuing with its program of improving the workplace environment to conform to new perceptions and regulations concerning safe levels of exposure to asbestos fiber. The mining subsidiary spent $1.6-million on the program in 1976 and expects to spend in excess of $4-million additional over the next three years.

THE FLINTKOTE COMPANY

The Flintkote Company is a major producer of basic materials and products for the building and construction industries in the United States and Canada. The company is also engaged in paving contract construction in certain geographic areas of both countries. Net sales reached $489,900,000 in 1976, 16% higher than the restated figure for 1975. Income from continuing operations was $10,040,000 compared with $13,106,000 a year earlier. Of Flintkote's total net sales for 1976, building products accounted for 50%, lime and cement materials contributed 18.5%, stone products supplied 17.5%, and Canadian operations offered 14%.

The year 1976 was a considerably better construction year but improvements in the volume of activity were not realized in all areas of the United States or in all segments of the industry. During 1976 the physical volume of shipments in Flintkote's major product lines was strong in all market areas except the Northeast and Canada. Residential units for the industry as a whole totaled over 1.5-million, an improvement of about 30% over 1975. The nonresidential and nonbuilding segments remained virtually unchanged throughout most of the year but there are indications that there will be up-turns in both categories in 1977.

Flintkote acquired certain of Penn-Dixie Industries' cement storage and finish grinding facilities at Howes Cave, New York, and permanently closed its cement plant in Ohio. The asbestos-cement pipe operations at Ravenna, Ohio, were not providing a satisfactory return during the past few years and a 15-week strike in 1976 during the peak business season made it more evident that the capital invested there would be better utilized in more profitable product lines. Therefore, the decision was made to dispose of all company pipe operations. The new roofing plant in Atlanta, Georgia, began operations and increases to seven the number of roofing plants operated by Flintkote.

GAF CORPORATION

Net sales for GAF Corporation for the year 1976 totaled $1.061-billion compared with $964-million in 1975. Net income reached $19.7-million against $30.9-million. Of the $11.2-million earnings decline, $9.2-million was accounted for by the unusual conjunction of a number of special items: a non-recurring $4-million net gain in 1975, current

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fluctuations that resulted in an after-tax loss of $3-million in 1976, and the impact of a pre-tax reserve for a silver shortage of approximately $3.5-million. In addition, increased unit manufacturing costs of over $35-million, primarily for raw materials, labor and energy, exceeded price increases by over $10-million. The building materials segment of GAF's business accounted for 39.8% of total net sales, photographic and reproduction sales contributed 35% and the chemical group supplied 25.2%.

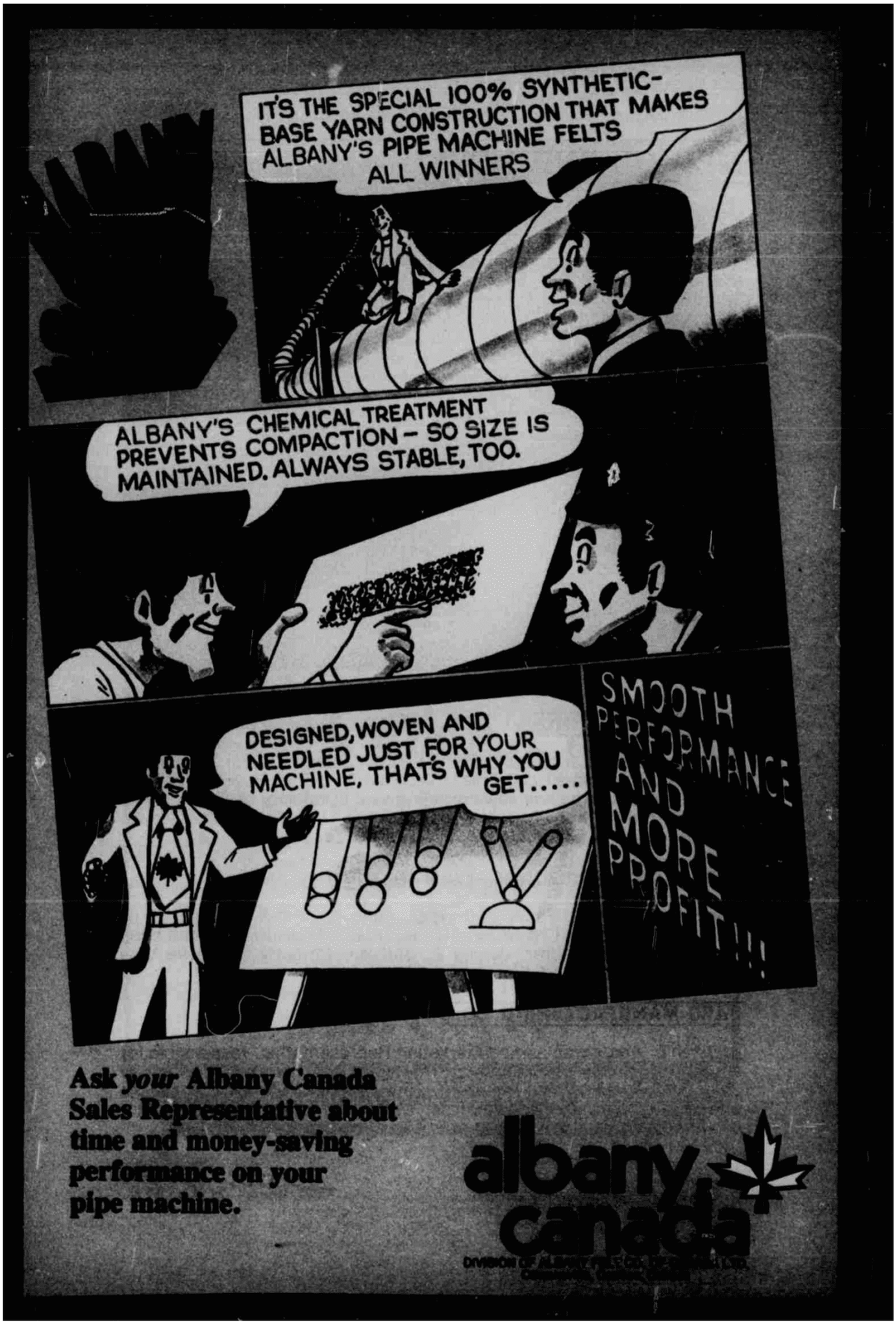
GAF building materials achieved record sales in 1976 although profits were somewhat lower due to cost increases that outpaced unit sales and price increases, and to highly competitive market conditions that precluded price increases on some products. GAF is the largest manufacturer of asphalt shingles in the world and ranks second in the floor tile and third in the sheet vinyl flooring markets. There are almost 60 square feet of vibration and sound deadening paddings in the average new car, and GAF supplies more than one-third of the market. In 1976 GAF signed a major contract to supply mineral fiber-cement products used in cooling towers for power plants.

ASBESTOS STOCK QUOTATIONS

Close—March 15, 1977

Abitibi Asbestos	C$.57	G&W (pfd 3.87)	71
Advocate Mines	C$3.65	G&W (pfd 5.75)	73
Armstrong Cork	24¼	IC Industries	23½
Asarco	20⅝	IC Ind (pfd 6)	101½
Asbestos Corporation	C$22.00	IC Ind (pfd 3.50)	43⅝
Bendix	43⅝	Jim Walter Corporation	34⅝
Carlisle	18	Jim Walter (pfd 1)	11¾
Cassiar Asbestos	C$7.00	Jim Walter (pfd 1.60)	36¾
CertainTeed	25¼	Johns-Manville	31⅞
Charter Conso.	pence 137	Kennecott Copper	28
Colt Industries	51¼	Lear Siegler	14¾
Colt Ind. (pfd 1.60)	27	Lear Siegler (pfd 2.25)	38⅝
Colt Ind. (pfd 4.25)	72¾	Maremont	18⅝
Conwest	C$3.15	McAdam Mining	C$.29
Flintkote	20½	National Gypsum	16½
F-kote (pfd-A 4.50)	81	Pathfinder	C$.21
F-kote (pfd-B 2.25)	40⅝	Porter, H. K. (pfd 5.50)	75½
GAF Corporation	11⅞	Raybestos-Manhattan	31
GAF (pfd 1.20)	18⅜	Rio Algom	C$27.125
Gulf & Western	14¾	Supradur	Bid 5⅝; Asked 6⅛
G&W (warrants)	1¼	Union Carbide	60½
G&W (pfd 2.50)	36⅛	Woodsreef Minerals	C$.68

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MEN ON THE MOVE

ATLAS ASBESTOS CO. LTD.

G. Barge, President, announced the election of *Wayne Gallant* as Vice President-Finance and Secretary-Treasurer for Atlas Asbestos and Secretary-Treasurer for Turners Building Products Ltd. . . . *Joseph R. Ralphs* retired as Atlas Secretary and Treasurer, effective February 28, 1977, after 27 years of service with the company. . . . The newly-formed Corporate Planning Department will be headed by *John Zacharias*, formerly Marketing Manager-A/C Pipes for TAC Construction Materials Ltd. . . . *Douglas Willey* has been transferred to the new Department and *Norman Beaufils* has joined Atlas to serve as Planning Manager.

LAKE ASBESTOS OF QUEBEC LTD.

Edward A. Farrell was appointed Director of Sales for Lake Asbestos of Quebec, it was announced by *Michael J. Messel*, President. Mr. Farrell had been North and South American Sales Manager for the wholly-owned subsidiary of Asarco Inc. since 1965. Prior to joining the Asarco asbestos research program in 1957, he had spent 11 years in research and development activities for Johns-Manville Corporation. . . . *Roland P. Gagnon*, Vice President-Sales, announced the promotion of *Peter Buchholz* to Sales Manager for Lake Asbestos. A native of Strausberg, East Germany, Mr. Buchholz has been a member of the LAQ sales staff since 1971.

LEAR SIEGLER, INC.

John R. Johnson was elected a Senior Vice President of Lear Siegler. He continues as President and Chief Executive Officer of Royal Industries, Inc., a company which is now operating as a subsidiary of Lear Siegler. *Robert C. Sherburne*, who remains as Executive Vice President of Royal, was also named a Corporate Vice President of Lear Siegler.

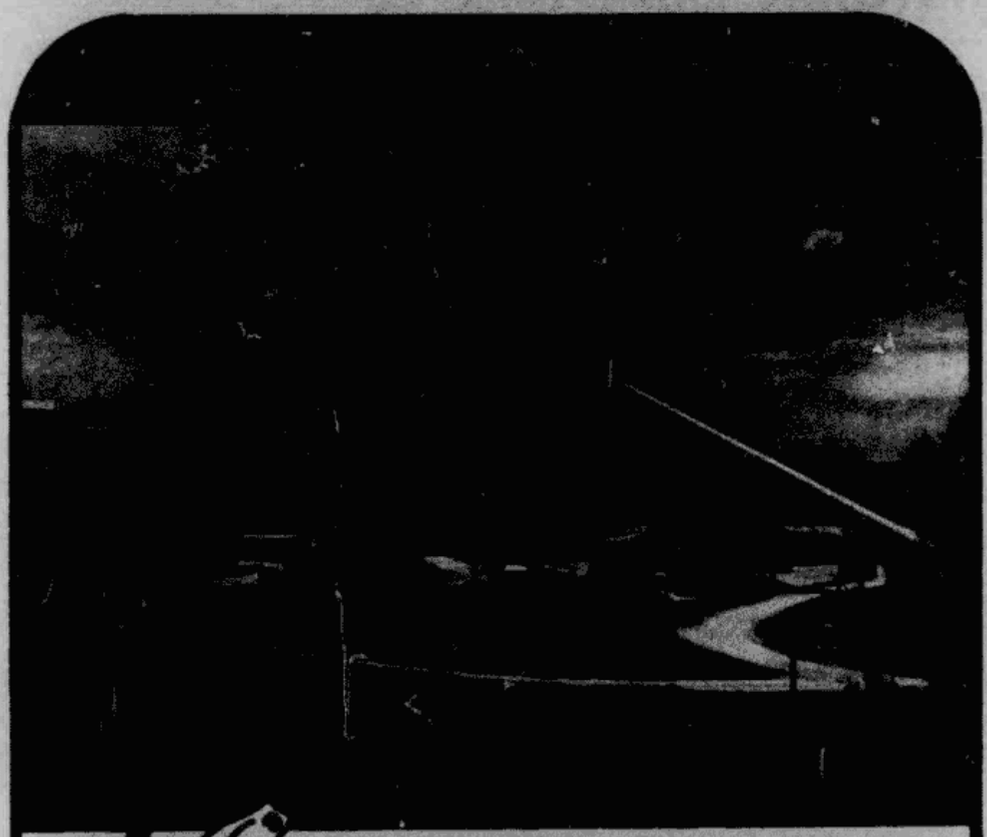
PACOR INC.

Donald L. Andrew, Pacor Secretary, announced the election of *C. Branton Wheatley* as Chairman of the Board and Treasurer. He had been President and Treasurer. *James E. Sullivan*, formerly Executive Vice President, was named President.

PARS MANUFACTURING CO.

Stephen E. Ames was named Marketing Representative, responsible for advertising, product promotion and management, it was announced by *James H. Plummer, Jr.*, President. Pars is a maker of die-cut gaskets and high-temperature gasket specialties and a distributor and fabricator of various textile specialties.

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BIRTHDAY GREETINGS to . . .

W. Vermeer, Jr., Managing Director, Chemische Productenhandel J. J. van de Vrande, Haarlem, The Netherlands, May 16.

J. R. M. Hutcheson, Chairman of the Board, Canadian Johns-Manville Co. Ltd., Asbestos, Quebec, May 17.

W. J. Clough, a Director and General Manager, Sealing Materials Division, TBA Industrial Products Ltd., Rochdale, Lancashire, England, May 18.

Kurt Schwarz, Senior Vice President, Supradur Manufacturing Corporation, Wind Gap, Pennsylvania, May 19.

M. L. Trepanier, Manager of Engineering, Asbestos Corporation Ltd., Thetford Mines, Quebec, May 19.

R. L. Johnson, Treasurer, MacArthur Company, St. Paul, Minnesota, May 20.

S. E. Cohen, a Director, James Hardie Asbestos Ltd., Sydney, New South Wales, Australia, May 21.

William T. Colborn, Vice President, Pacor Inc., Philadelphia, Pennsylvania, May 21.

Michael C. Mangan, Production Manager, Hedman Mines Ltd., Matheson, Ontario, May 24.

J. M. Atkinson, Deputy Chairman, Havelock Asbestos Mines (Swaziland) Ltd., Manchester, Lancashire, England, May 25.

Dennis F. Lougheed, Plant Superintendent, Hedman Mines Ltd., Matheson, Ontario, May 25.

C. W. Miles, Product Manager for Expansion Joints, Industrial Products Division, Johns-Manville Corporation, Denver, Colorado, May 25.

Edward A. Morris, Sales Manager, Southern District, Amatex Corporation, Columbia, South Carolina, May 25.

J. L. Geddes, Managing Director, Cape Insulation Ltd., Stirling, Scotland, May 27.

A. J. McMullen, Chairman and Chief Executive Officer, Garlock Inc., Rochester, New York, May 27.

Clive V. Eacott, Works Manager, Wunderlich Ltd., Sunshine, Melbourne, Australia, May 29.

Olaf Mohn, Sales Manager, United Asbestos Inc., Montreal, Quebec, May 29.

Lionel C. Pluze, Vice President-Operations and a Director, Lake Asbestos of Quebec Ltd., Black Lake, Quebec, May 30.

Leo J. Bartolanzo, Vice President and Controller, Johns-Manville Corporation, Denver, Colorado, June 3.

Harold F. X. Plate, Vice President-Sales, United Asbestos Inc., Montreal, Quebec, June 3.

J. C. T. Fell, Managing Director, Belaco Ltd., Swanley, Kent, England, June 4.

J. G. Richardson, a Director, Cape Industries Ltd., London, England, June 5.

R. V. Stohr, Manager, Kliprivier Factory, Everite Ltd., Kliprivier, Transvaal, Republic of South Africa, June 6.

William C. Black, a Director, Hedman Mines Ltd., Bethlehem, Pennsylvania, June 7.

Asbestos Magazine, 1977, April 1977
ACL Doc 12696 · Page 47 of 61
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M. A. F. Newton, a Director, Cape Industries Ltd., London, England, June 7.
William Krucke, Director of Environmental Programs, Raybestos Manhattan Industrial Products Company, North Charleston, South Carolina, June 9.
Alan C. Locke, Group Manager, Wunderlich Ltd., Sydney, New South Wales, Australia, June 9.
Alexander Kuzmuk, Vice President and General Manager-Construction Products, Garlock, Inc., Palmyra, New York, June 11.
Ernest C. Bratt, President, Southern Asbestos Company, Charlotte, North Carolina, June 12.
B. C. Winch, Managing Director, Cape Distribution Ltd., Biggleswade, England, June 12.
A. H. Bagenstose, Vice President-Sales and a Director, Carey-Canadian Mines Ltd., East Broughton Station, Quebec, June 14.
A. C. Caron, Assistant Manager of Engineering, Cassiar Asbestos Corporation Ltd., Vancouver, British Columbia, June 14.
John J. Finnegan, President, Ambler Division, a Corporate Vice President and a Director, Nicolet Inc., Ambler, Pa., June 14.
G. R. Smith, Purchasing Agent, Bell Asbestos Mines Ltd., Thetford Mines, Quebec, June 14.
John M. Smith, Plant Manager, Normandie Mine, Asbestos Corporation Ltd., Thetford Mines, Quebec, June 14.

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NEW ASBESTOS PATENTS

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

Canadian 1,002,676—Wood veneer or wood layers are joined using as an adhesive an aqueous mixture of 4-11 parts by weight of processed Grade 7 Chrysotile asbestos having a kerosene retention of at least 4.25 grams per 10 grams of asbestos, 70 parts of phenolic resin, 3.7-7.3 parts of pressure digested lignocellulose, 4 parts of wheat flour and 3.5 parts of aqueous sodium hydroxide; A. Schnabel; assigned to Johns-Manville Corporation, December 28, 1976; 22 pages.

Canadian 1,002,678—To improve the resistance of Chrysotile asbestos-filled polypropylene to heat degradation during processing, there is added to the mixture a reaction product of trimellitic anhydride and dipentaerthyritol; J. H. Kietzman and M. P. Tocci; assigned to Johns-Manville Corporation, December 28, 1976; 22 pages.

U.S. 4,002,004—Packaging of raw, fluffy asbestos fibers into blocks having a density of at least 100 pounds per cubic foot for convenience and economy in shipping; fibers are wetted and partly compacted, the partly compacted masses de-aerated and the de-aerated masses subjected to a final compaction operation; G. L. Lambert; assigned to Johns-Manville Corporation, January 11, 1977; 7 pages.

U.S. 4,002,527—Production of asbestos-reinforced, rubber-based sheets; an aqueous slurry of asbestos is blended with powdered chlorinated natural rubber particles and polychlorprene as a binder, the binder precipitated onto the fiber particles along with the rubber powder, the material formed into sheets and the sheets dried and treated with toluene to cause swelling and smearing of the rubber particles; J. L. Piersol; assigned to Armstrong Cork Company, January 11, 1977; 5 pages.

U.S. 4,002,592—A friction material having a controlled coefficient of friction comprises preferably about 25% by weight of asbestos, 8% of kaolin, 5% of beeswax, 3% of an isomorphous spinel solid solution and the remainder A-state phenol-formaldehyde; Y. Baskin; assigned to Ferro Corporation, January 11, 1977; 6 pages.

U.S. 4,003,866—Low-cost structural products are made by molding or extruding a mixture of preferably 40-60% by weight of sodium silicate-coated asbestos fiber or wood waste, 2-6% of a polyethylene or polypropylene wax, 20-30% of comminuted waste plastics and 10-15% each of polystyrene and low-density polyethylene; R. Paturie; assigned to Ets. Paturie S.A., January 18, 1977; 12 pages.

Asbestos Magazine, 1977, April 1977
ACL Doc 12696 · Page 49 of 61
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VALUABLE LITERATURE

ASBESTOS-CEMENT PRODUCTS—The following articles, written in Russian, appeared in recent issues of "Construction Materials." Photocopies are available from ASBESTOS Magazine at 20c per page: Large-Sized Flat Structural Asbestos-Cement Sheets [2 pages]; Problems from Providing Synthetic Adhesives for Slag Cotton Production [2 pages]; New Asbestos Cement Technology [2 pages]; and Improving Health Conditions of Labor at Enterprises in the Asbestos Industry [2 pages].

ENERGY MANAGEMENT GUIDE FOR LIGHT INDUSTRY AND COMMERCE—Describes some simple methods by which managers of small business can analyze their energy use, determine the areas in which energy savings can be made and estimate the magnitude of possible cost savings; developed by the U.S. National Bureau of Standards and the U.S. Office of Energy Programs. [23 pages; 70c; NBS Handbook 120/SD Catalog Cl3.11:120; order from Superintendent of Documents, U.S. Government Printing Office, Washington, D. C. 20402]

OFFICIAL U.S. AND INTERNATIONAL FINANCING INSTITUTIONS—Published in response to the many requests received by the U.S. Department of Commerce from exporters and investors for information on sources of financing, insurance and procurement for U.S. exports and investments. [15 pages; 35c; Stock No. 003-009-00226-5; order from Superintendent of Documents]

BASIC INDUSTRIAL HYGIENE—Comprehensive training manual on basic industrial hygiene principles and procedures; provides principles, procedures and reference materials on hazard recognition and control as well as fundamental monitoring, testing and inspection techniques; topics include gas, vapor and particulate sampling, noise, calibration of air sampling instruments, ionizing radiation, microwaves, industrial ventilation, heat and cold stress and other potential workplace hazards. [245 pages; $10.75; order from American Industrial Hygiene Association, 66 South Miller Road, Akron, Ohio 44313]

FOREIGN TRADE MARKET PLACE—A subject-classified directory to nearly 5000 companies, consultants and other organizations involved in foreign commerce and a functional handbook offering practical guidance in developing a foreign trade strategy. [a Norback Book edited by G. J. Schultz; 800 pages; $48.00; place orders with Gale Research Company or through ASBESTOS Magazine]

MINING INTERNATIONAL YEAR BOOK, 1977 EDITION—Contains extensive data on over 700 companies and 3000 subsidiaries operating world-wide; lists mining, exploration and development firms by country of operation; includes a buyer's guide and a comprehensive directory of equipment and services. [authored by W. R. Skinner; 700 pages; $33.00 via surface mail; $48.00 via airmail; place orders with The Financial Times Ltd. or through ASBESTOS Magazine]

Asbestos Magazine, 1977, April 1977
ACL Doc 12696 · Page 51 of 61
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STILL AVAILABLE . . .

CHRYSOTILE ASBESTOS TEST MANUAL, 3RD EDITION—Prepared jointly by the Asbestos Textile Institute, Inc., and the Quebec Asbestos Mining Association; provides 34 standard methods for testing the physical and chemical properties of Chrysotile asbestos fiber. [$18.95 to the U.S., Canada and Mexico; $21.95 to all other countries; place orders with ASBESTOS Magazine]

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

RECOMMENDED WORK PRACTICES—Five manuals published by the Asbestos Information Association/North America: Recommended Work Practices for the Fabrication and Use of Asbestos Paper Products; Shop and Field Fabrication of Asbestos Sheet Products; Molding and Fabrication of Asbestos Containing Plastic Products; Fabrication and Use of Asbestos Friction Materials; and Use and Handling of Asbestos Textile Products. [$1.35 each plus postage; order from AIA/NA, 1835 K Street, N.W., Suite 402, Washington, D. C. 20006]



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CALENDAR OF EVENTS

PRACTISING LAW INSTITUTE SEMINARS—Developments in Civil Liabilities under the Federal Securities Laws—*April 28-29* in San Francisco, California, and *June 2-3* in New York City; Protecting the Corporate Officer and Director from Liability—*May 5-6* in New York City and *June 2-3* in Los Angeles, California; SEC Reporting Requirements—*May 5-6* in New York City and *June 30-July 1* in Houston, Texas; and Current Developments in Copyright Law—*May 18-20* in New York City and *June 1-3* in Los Angeles, California.

NIOSH COURSES—Training Courses sponsored by the U.S. National Institute for Occupational Safety and Health include: Recognition, Evaluation and Control of Occupational Hazards, New Orleans, Louisiana, *May 2-6;* Industrial Ventilation, Cincinnati, Ohio, *May 23-27;* Industrial Hygiene Respiratory Protection, Las Vegas, Nevada, *June 21-24;* Recognition of Accident Potential in the Work Place Due to Physical Environmental Factors, Cincinnati, Ohio, *June 27-29;* and Recognition of Accident Potential in the Work Place Due to Human Factors, Cincinnati, Ohio, *June 29-July 1.*

NATIONAL PLANT ENGINEERING AND MAINTENANCE—Conference and Show produced by Clapp & Poliak, Inc.; McCormick Place, Chicago, Illinois, *May 9-12.*

DESIGN ENGINEERING—Show and concurrent ASME Conference; McCormick Place, Chicago, Illinois, *May 9-12.*

CANADIAN ROOFING CONTRACTORS ASSOCIATION—18th Annual Meeting and National Conference; The Queen Elizabeth Hotel, Montreal, Quebec, *May 15-18.*

PRODUCTIVITY WITH QUALITY/TODAY'S CHALLENGE—Theme of the 31st Annual Technical Conference of the American Society for Quality Control; Marriott Hotel, Philadelphia, Pennsylvania, *May 16-18.*

AMERICAN INDUSTRIAL HYGIENE—1977 Conference of the American Industrial Hygiene Association; Fairmont Hotel, New Orleans, Louisiana, *May 22-27.*

THE ECONOMICS OF INTERNATIONAL MINERAL EXPLORATION AND DEVELOPMENT—Short Course at the Colorado School of Mines, Golden, Colorado; *May 25-27.*

1977 NATIONAL CONFERENCE ON WATER—To be presented by the U.S. Water Resources Council, St. Louis, Missouri, *May 23-25.*

ASBESTOS TEXTILE INSTITUTE, INC.—1977 Spring General Meeting; Capitol Hilton Hotel, Washington, D. C., *June 2-3.*

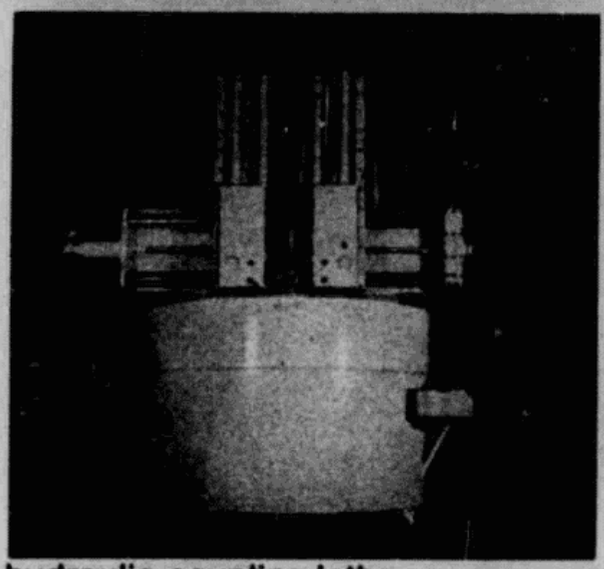
INTERAGENCY ENERGY/ENVIRONMENT R&D PROGRAM—2nd National Conference sponsored by the U.S. Environmental Protection Agency with eleven other governmental agencies; Sheraton-Park Hotel, Washington, D. C., *June 6-7, 1977.*

Asbestos Magazine, 1977, April 1977
ACL Doc 12696 · Page 53 of 61
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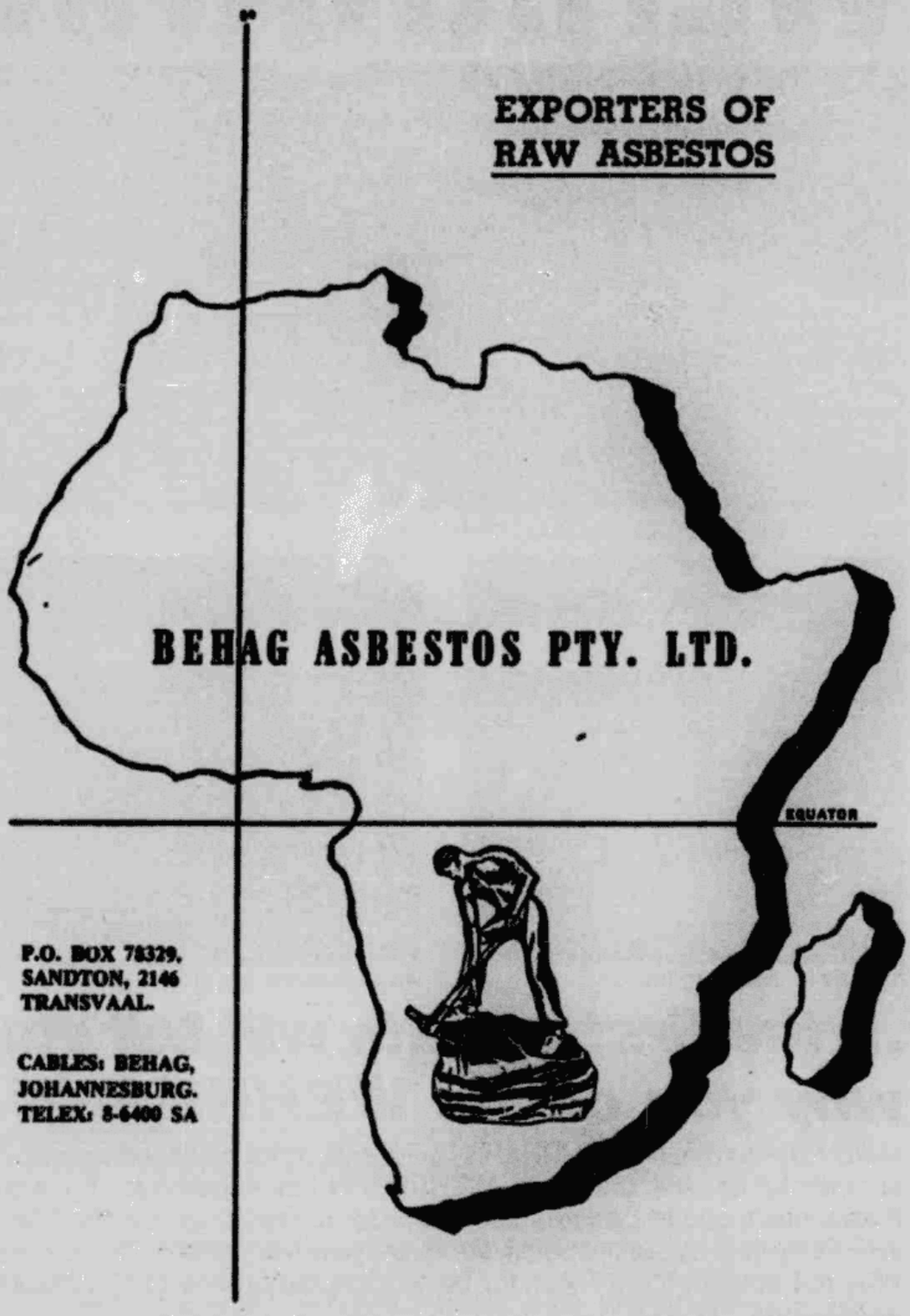
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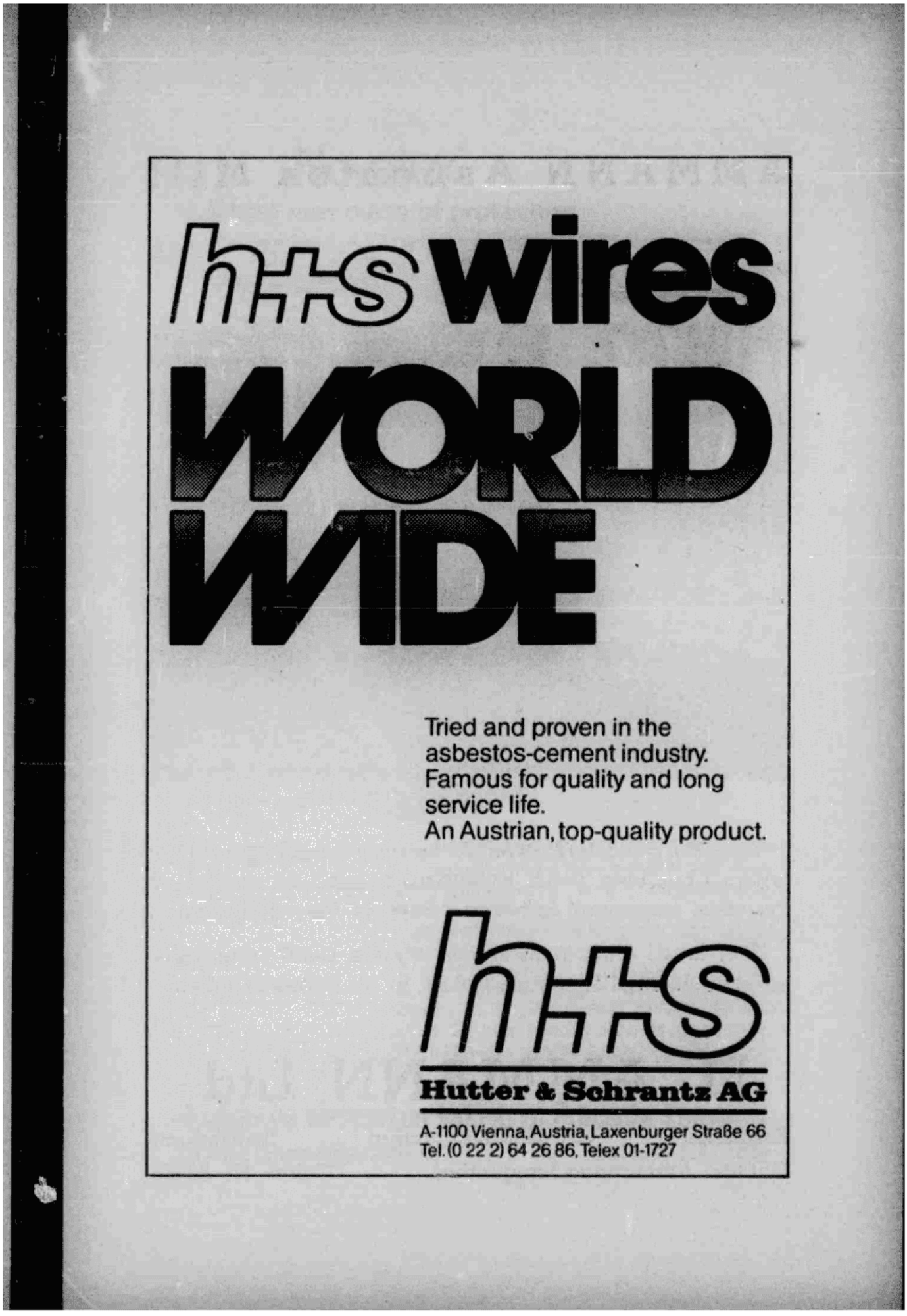


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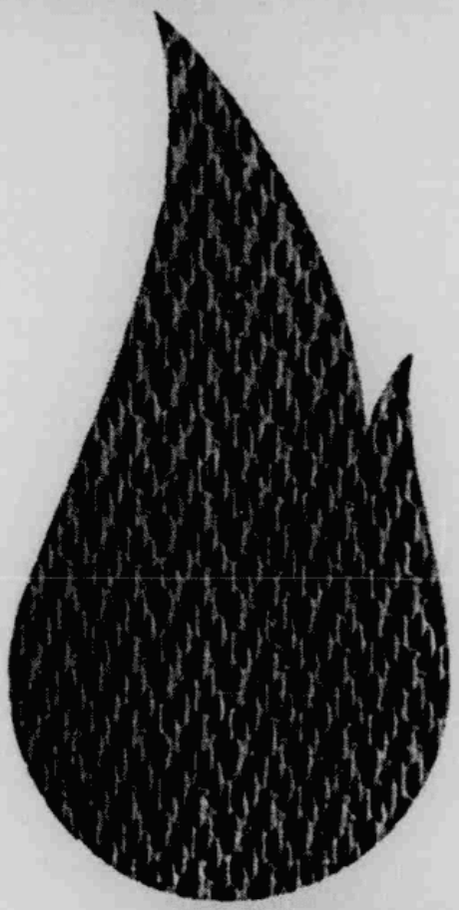
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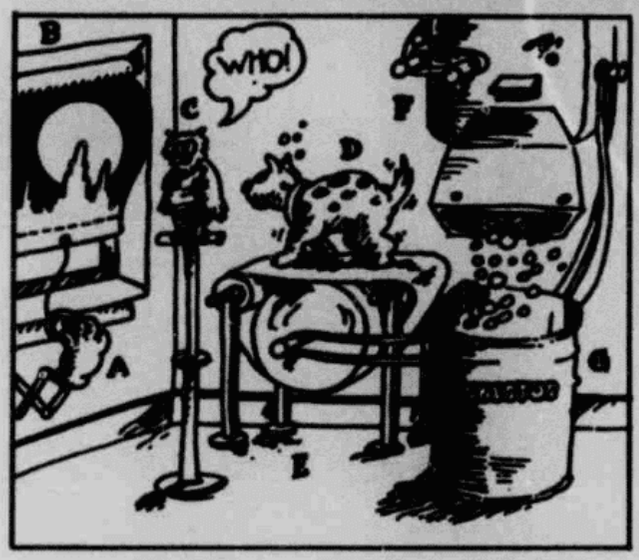
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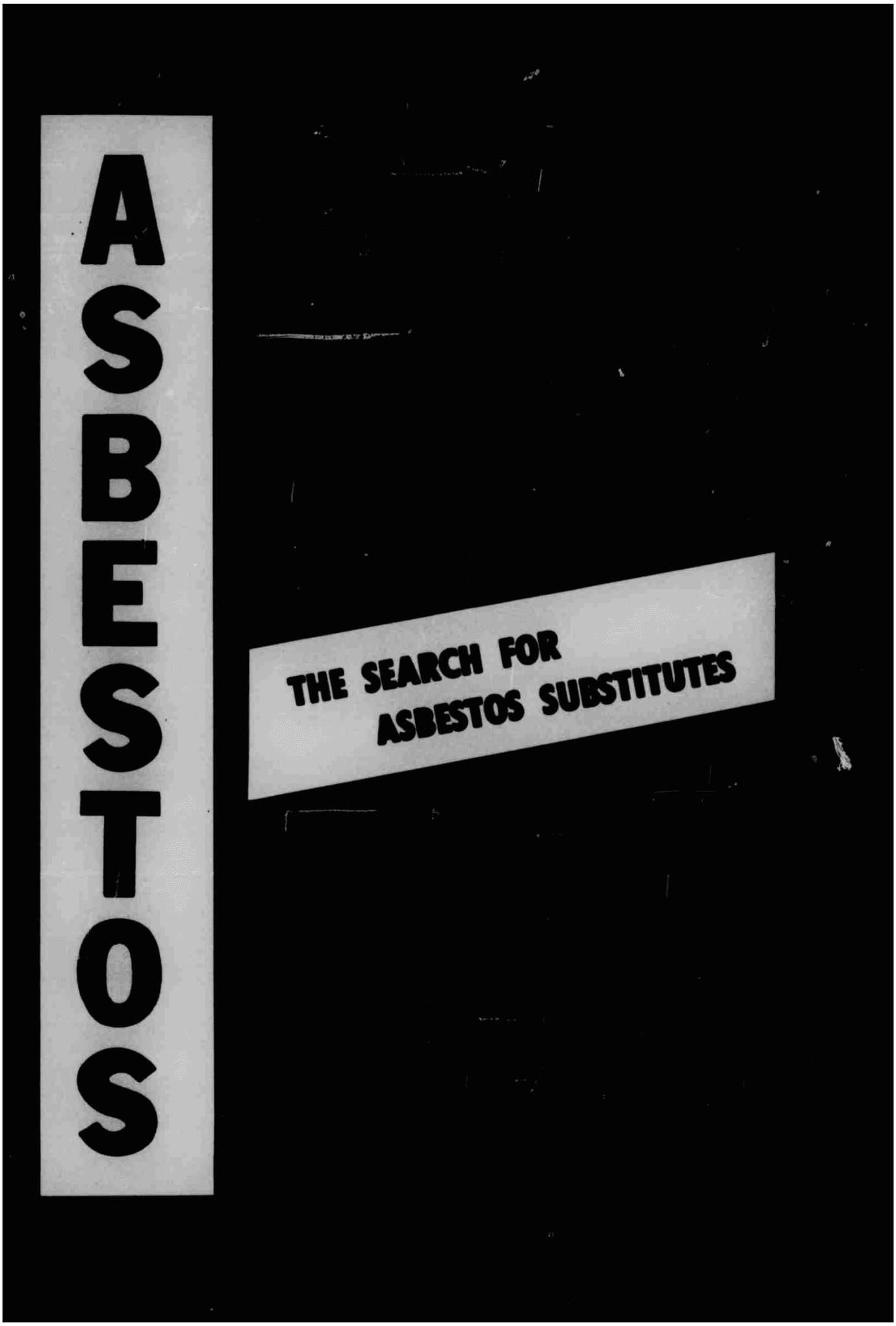
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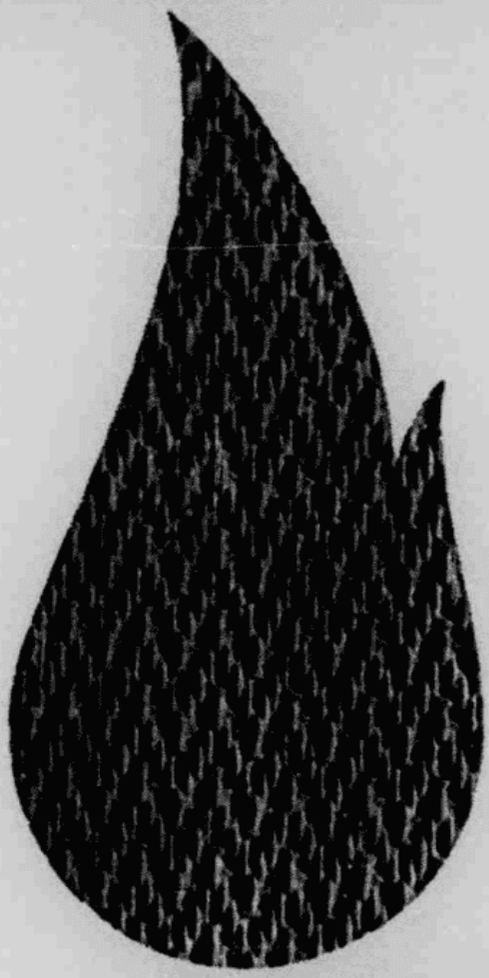
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