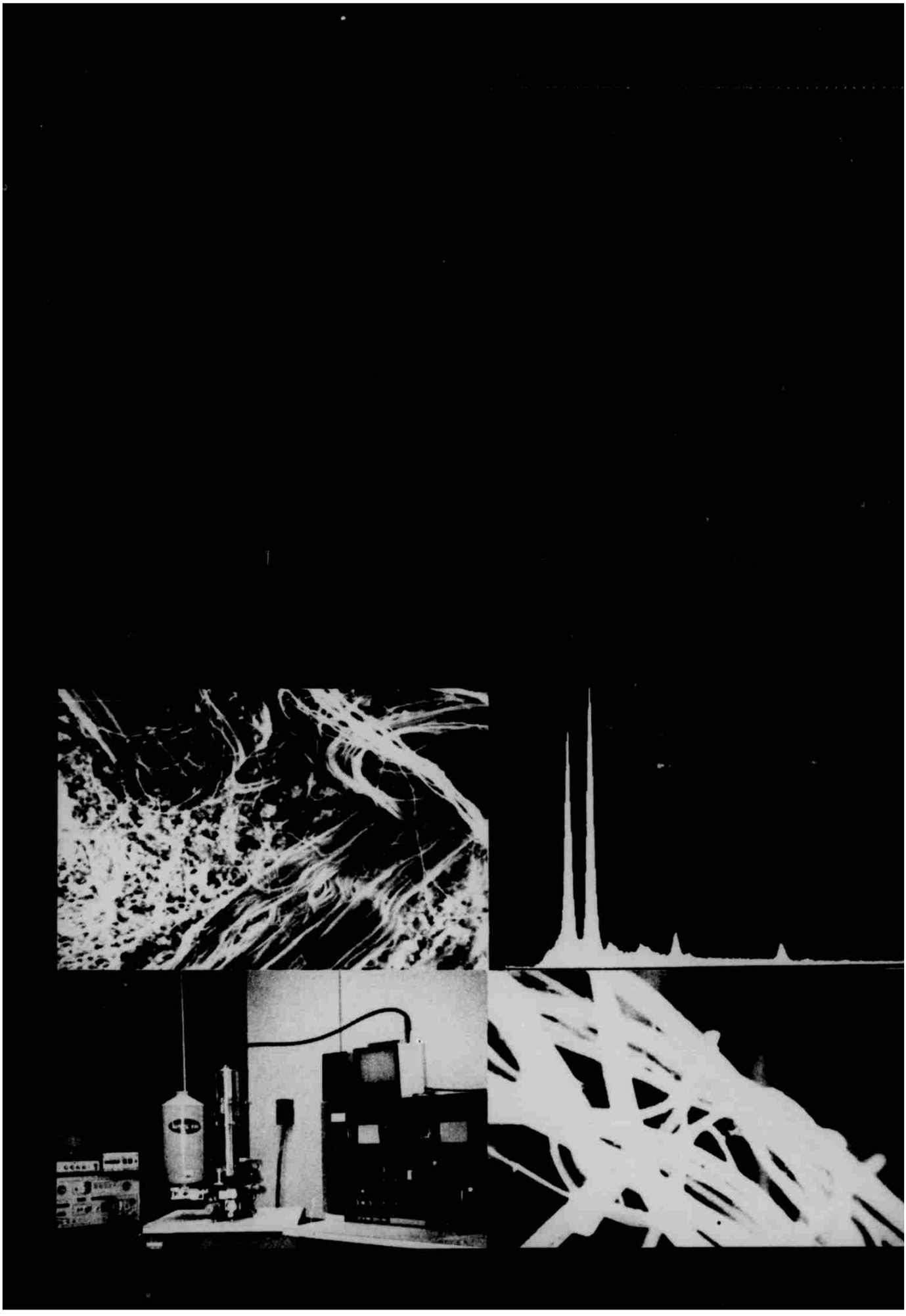
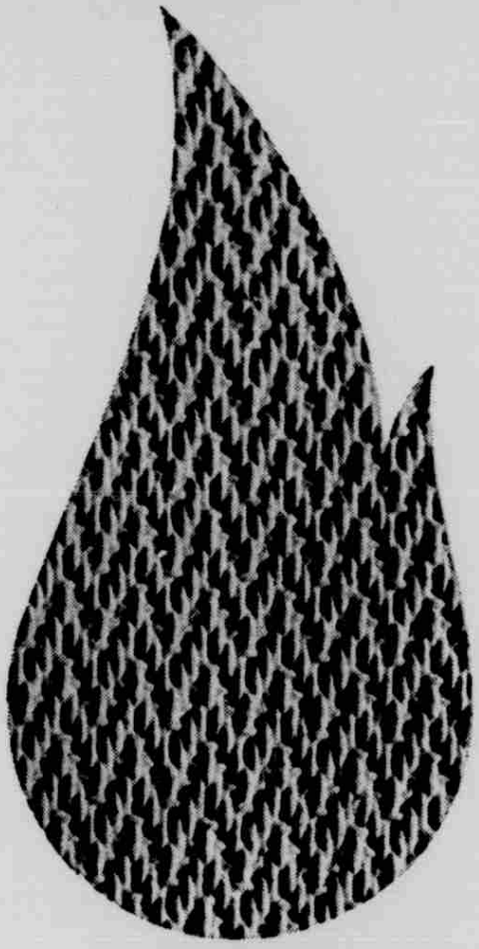


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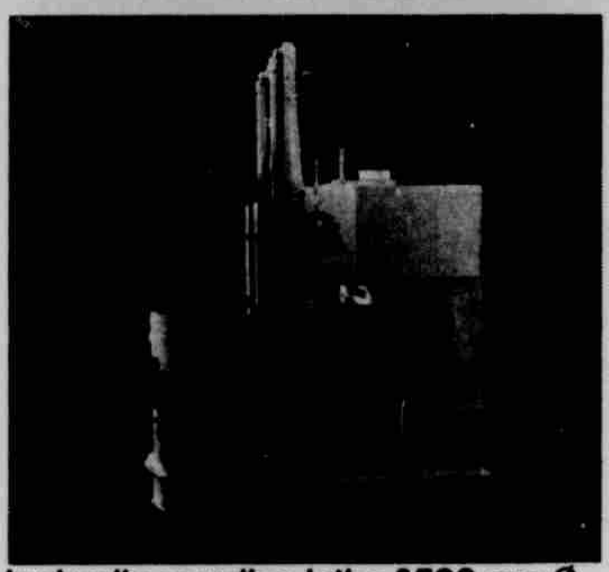
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ASBESTOS

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MICROMETHODS FOR ASBESTOS SAMPLING

In the following article, EMV Associates, Inc., Rockville, Maryland, presents criteria for identification of Chrysotile asbestos using scanning and transmission electron microscopic techniques. A microanalysis consulting firm in air, water and building materials, EMV has been performing analyses for government and private organizations for the last seven years.

The present concern with asbestos pollution of water, food, air and injectable drugs and its possible role in the incidence of cancer in the population has occasioned the need for reliable micromethods for identification and estimation of this material.

Asbestos exists in several forms with variation in structure and chemical composition. Of these, two forms are important in the United States: Chrysotile fibers which have a finite diameter of 0.02-0.04 micron and comprise about 95% of commercially-used asbestos; and Amosite which comprises the remaining 5%.

In the past, light microscope detection and X-ray diffraction have been utilized as the principal asbestos detection and evaluation tools. These are limited to the detection of larger fibers only (greater than 0.2 microns) or in the case of X-ray diffraction, samples large enough to interact with the X-ray source (bulk samples) are required.

A number of investigators have applied the transmission electron microscope (TEM) to the observation, identification and estimation of asbestos. Preparation for observation generally involves ashing the sample to remove extraneous organic material and the filter used for collecting the sample. This also eliminates organic fibers which might be confusing. Identification of fibers in the TEM depends on the criteria of survival of ashing, size, presence of a characteristic hollow core structure, and the existence of a characteristic electron diffraction (ED) pattern. Conventional TEM's, however, do not have sufficiently small beam spot sizes to obtain adequate ED patterns. Sample preparation for TEM may be rather tedious and the examination of samples time consuming. These factors have resulted in a high sampling

THE COVER—Composite of four photographs concerning the microanalysis of asbestos. The upper left photograph shows a typical bundle of Chrysotile asbestos; magnification 3000X. Upper right is a spectrum of energy dispersive X-ray analysis (EDXA). At the lower right is a picture of Chrysotile asbestos fibers in a wallboard material; magnification 1500X. The equipment at the lower left position is the scanning electron microscope. (Montage supplied by EMV Associates, Inc.)

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cost. Moreover, there is risk of contamination due to the many steps required.

The scanning electron microscope (SEM) has recently been applied to the screening of materials for asbestos and has shown a number of important advantages. It is rapid. Analysis involves the direct observation of filter surfaces after a conducting coating has been applied. Whereas the morphologic detail of fiber core structure does not show up in the SEM, sufficient resolution is present to determine the structure of the fibrils. Moreover, the detail of fibers overlying opaque contaminants is seen in the SEM. It is important that with a sufficient sample it is not necessary to concentrate the asbestos further and risk contaminating the sample. This also greatly reduces the cost per sample for surveys to detect asbestos in water and air. The SEM can be advantageously employed to survey filters to determine approximate concentration and appropriate dilution factors for highly-concentrated samples. More important, however, is the elimination of essentially negative samples from further analysis. In all probability, a large percentage of samples could be processed at fractional costs of TEM methods presently used.

The SEM is coupled with an energy dispersive X-ray microanalysis (EDXA) device which is capable of detecting chemical constituents in individual fibrils. For example, the elements that are detectable include Mg and Si, which are characteristically contained in most asbestos, and Na, Ca and Fe which are also contained in the amphibole varieties. Together with morphologic data from SEM, X-ray microanalysis is useful in the identification of asbestos.

In the past there has been justifiable criticism of the use of the SEM for asbestos detection because of insufficient resolution and concomitant poor signal-to-noise ratio of EDXA signals from small (about 250A°) fibrils. Contemporary SEM's, however, have a smaller beam spot size and can easily resolve 100A°| or better. With the smaller beam spot size, much better signal-to-noise ratios of EDXA signals from small fibrils are obtained.

The SEM may also be operated in the scanning transmission (STEM) mode, thus providing the same morphologic detail (core structure) as the TEM with an approximately two-fold improvement in resolution over the TEM technique. Energy dispersive X-ray analysis may also be used in the STEM mode.

Quantification of asbestos samples in the electron microscope involves a statistical approach. It is first necessary to reduce the fibers to fibrils by ultrasonic treatment. In both TEM and SEM, the present technique for quantification involves counting numbers and sizes of asbestos fibrils on portions of

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specimen grids or filter surfaces and then extrapolating. Fiber length frequency determination is difficult in that sampling may be subject to error through human selection bias. Samples with too little or too much asbestos are subject to greater errors. Counts and estimates of asbestos concentration without statistical evaluation of probability of error are of little value. Lastly, reporting of results should be in weight per unit volume. Tremendous error is introduced when results are reported as number of fibrils per unit volume because of the known breakup of fibers during ultrasonic treatment.

THRU THE ENVIRONMENTAL MAZE

FMSI SEMINAR ON ASBESTOS

Representatives of the brake lining and clutch facing industry recently attended a Seminar on Asbestos, conducted by the Friction Materials Standards Institute, Inc. Featured presentations were given by Johns-Manville Corporation, Ferro-Tech, Inc., Nilfisk of America, the Asbestos Information Association/North America, and the U.S. Occupational Safety & Health Administration.

During his part of the program, Mr. Byung Kwon, of OSHA, stressed the importance of industry members providing the Administration with information so a realistic and effective Asbestos Standard can be written. He stated that OSHA does not know everything and that industry may well suggest alternatives which can be effective in protecting workers. If no industry data is received, it is conceivable the Administration's proposals could become the final standard.

Mr. Kwon emphasized that industry should feel free to be candid and open with the standard-setting Administration. Information received by OSHA will not be used for compliance purposes. However, since all comments issued to the Docket Officer will become public information, he suggested that if some of the data were confidential and the particular manufacturer was concerned about disclosing it to a regulatory authority, the data could be sent in without the company's name. Anonymous submissions are acceptable if the contents are sensitive.

Mr. Kwon felt that blind opposition to the proposed exposure limits would not be productive. He cited the vinyl chloride case where several manufacturers indicated the stringent requirements could not be met—and several months later most manu-

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ASBESTOS R & D

The Ontario Research Foundation has provided services to the asbestos industry on a fee or contract basis for the past 12 years. These services include:

- testing and evaluation of asbestos fibers at any stage of milling or processing;
- research and development on asbestos products such as asbestos cement, composites, textiles;
- environmental impact studies and industrial hygiene surveys of mines, mills and plants.

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facturers were meeting the standard. He suggested the proposal be read carefully and if industry cannot comply in certain areas, it should let OSHA know what the areas are, and why compliance cannot be accomplished. (Editor's Note: The deadline for issuing comments to OSHA remains at April 9, 1976.)

WE STAND CORRECTED!

"I believe that for the first time I have found an error in ASBESTOS Magazine," wrote Edmund M. Fenner, Director, Environmental Services, Johns-Manville Corporation. We appreciate the pleasant way Mr. Fenner approached us about the error, and are grateful to him for bringing it to our attention. To set the record straight, we quote verbatim from Mr. Fenner's letter, as follows: "In the January 1976 issue, on page 44, Ingestion Studies, FDA, there is the statement '. . . . prohibits the use of asbestos-containing talc as a food, a food or drug ingredient, or in food and drug packaging materials.' Actually, in the Federal Register of March 14, 1975, on page 11867, first column, first full paragraph, Commissioner Schmidt states '. . . . the Commissioner concludes that the promulgation of regulations on the limitations or prohibition . . . . of the amount of asbestos fibers in talc for use in food and drugs or which might migrate into food or drugs, from talc-containing packaging materials is unwarranted . . . ' ".

NEW SECRETARY OF LABOR

W. J. Usery, Jr., was confirmed by the U.S. Senate on February 4, 1976, as Secretary of Labor, replacing John T. Dunlop. Mr. Usery was Director of Federal Mediation and Conciliation Service and Special Assistant to the President for Labor-Management Relations. At the hearings held on the Presidential appointment, Mr. Usery emphasized the need to improve OSHA's occupational health program without diminishing efforts toward workplace safety.

FDA REVOKES RULING

The U.S. Food and Drug Administration issued a ruling in the Federal Register of January 22, 1976, effective that same date, revoking the use of electrolytic diaphragms in the production of food-grade salt. FDA cited higher levels of asbestos fibers found in the electrolytic diaphragm process as opposed to conventionally-produced salt as the basis for the decision.

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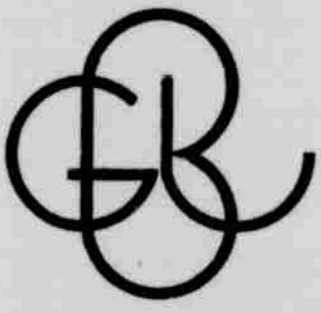
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COMPANIES & PRODUCTS

UNIROYAL TO LEAVE THE INDUSTRY

In an exclusive interview, this Magazine was informed that the Fiber & Textile Division of Uniroyal, Inc., is phasing out of the asbestos business and, by July 1, 1976, will no longer be manufacturing asbestos-containing textiles at its three-plant facility at Hogansville, Georgia. One big reason, but not the primary cause, for the decision was the cost to bring the operation into complete compliance with the OSHA Asbestos Standard—although Uniroyal says it could meet OSHA's requirements concerning airborne asbestos fiber. Generally speaking, the major move falls under President David Beretta's program of a redeployment of assets to eliminate low-profit product lines. The Asbestos operation is a small business with a low market profitability that has been gradually declining.

Of the 500 employees at Hogansville, 110 are engaged in asbestos textile manufacture. As many as possible of these 110 people will be absorbed at other Hogansville operations.

The Fiber & Textile Division has been merged with the Industrial Products Division. Douglas Smith is Vice President and General Manager of the new Industrial and Textile Division and Donald McNeish is General Manager of Textile Operations. It is believed the company will continue to produce high-temperature fabrics made of synthetic fibers.

A/C = AMERICA'S CHOICE

"America's Choice" has been released as a major promotional brochure for 1976 of the Association of Asbestos Cement Pipe Producers. The four-color publication is designed to emphasize the broad-based acceptance of asbestos-cement pipe throughout the United States. Almost 8,000 copies have been mailed to U.S. mayors, city council/commission chairmen, first selectmen and officials of equivalent responsibilities in an effort to focus positive attention on the benefits of a/c pipe. Today's municipality can choose from a variety of piping materials, i.e., asbestos-cement, cast and ductile iron, concrete, PVC and steel. The objective is always to select the pipe that delivers quality water at the least cost commensurate with high system reliability. The Association reports that a/c pipe has been the first choice of large and small municipalities alike because asbestos-cement is today's best buy in water pipe. One out of every three feet of distribution pipe currently being installed is

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Tel: Uxbridge (89) 37111

N. American Asbestos Corp.,
Suite 2950,
150 N. Wacker Drive,
Chicago, Illinois 60606
Tel: (312) 726 8515

asbestos-cement. Based on an industry survey of U.S. municipalities with a population of 1,000 or more, 4,587 (38%; 65-million people) have specified, purchased or have in service asbestos-cement pipe. Copies of the comprehensive brochure are available in limited quantities from: AACPP, 1875 Connecticut Avenue, N.W., Washington, D. C. 20009.

NATIONAL GYPSUM CORPORATE MOVE

National Gypsum Company announced plans to relocate its corporate headquarters operations from Buffalo, New York, to Dallas, Texas. According to Colon Brown, Chairman and Chief Executive Officer, the decision is the result of a complete study of the present company operations and of the location that would be in the best interest of the corporation's future. The move, which is expected to be completed in 1977, does not include the Gold Bond Building Products Division whose headquarters, research and development center and advertising distribution facility will remain at Buffalo.

CERTAIN-TEED UPS A/C PIPE PRICES

An 8% across-the-board price increase, effective February 9, 1976, was announced by Certain-teed Products Corporation for its line of asbestos-cement pipe products. W. R. Blankenship, Vice President-Marketing, Pipe & Plastics Group, attributed the increase to the recent steep rise in the price of asbestos fibers and to advancing production costs. The increase has prompted a revision and simplification in Certain-teed's statement of Price Escalation Terms and Conditions of Sale for customers. The changes were necessary to provide a contractor with some assurance of future construction costs as he bids on a job. Certain-teed is the second largest U.S. a/c pipe manufacturer.

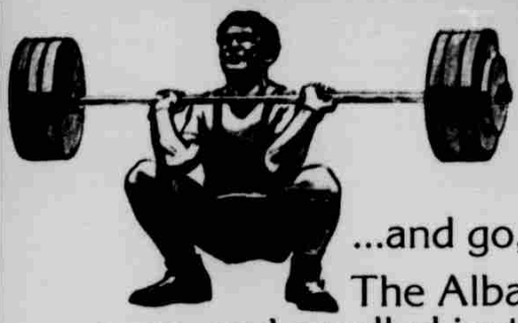
FLEXITALLIC BUYS GASKET FIRM

Flexitallic Gasket Company Inc. has extended its manufacturing operations in North America by the purchase of Gasketfab Inc., a maker of metal-jacketed and heat exchanger gaskets headquartered at Los Angeles, California. It is planned to introduce machines to make spiral-wound gaskets in order to service the important refinery market on the West Coast. Flexitallic is the main supplier of spiral-wound gaskets in the U.S. from plants in Camden, New Jersey, and Deer Park, Texas. It is a subsidiary of Engineering Components, a Turner & Newall company.

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GENERAL BUSINESS CONDITIONS

Most leading and coincidental indicators confirm the continuing uptrend in general business which now appears somewhat stronger than had been generally anticipated. With business holding a relatively tight rein on capital expenditures, it is becoming increasingly clear that the strength and longevity of this recovery will be heavily dependent on a revival of healthy consumer spending. The most widely recognized polls indicate an increase in consumer confidence is well underway and these findings are confirmed by statistics showing increasingly strong retail sales. Personal income is also showing impressive gains and unemployment is easing, albeit slowly. So long as these trends hold sway, prospects for continuing improvement in the economy are good.

Despite the encouraging increase in new car sales, car builders have been forced to readjust production schedules as buyers are favoring full-size cars as opposed to compacts. So long as ample supplies of gasoline are available at current prices, there are no strong incentives for an American to forego the real or imagined advantages of the standard size car to which he has become accustomed and this thinking is making itself felt in the marketplace.

Prices of industrial products continue to edge upward but farm prices have dropped recently, resulting in relatively little change in the wholesale price level. Dry weather is causing substantial losses in the winter wheat crop which will no doubt be reflected in rising food prices some months from now.

Results of Presidential primaries up to now are inconclusive. However, an interesting development is the apparent growth in popularity of candidates who are taking an anti-big-government stance and, at the same time, are stressing the importance of fiscal responsibility on the part of the Federal establishment. This is not to say that the "big spender" philosophy is dead—far from it. What is encouraging is to note that some politicians are recognizing the feelings of the people in these respects and are reacting to those feelings. Whether a candidate can be elected on such a platform remains to be seen.

In summary, a slow but steady recovery in business is now underway and inflation seems to be slowing to a more acceptable pace. All this started and is continuing with a minimum of Government intervention. Any expansionary intervention at this point, while it might speed up the recovery, would involve risks of renewing inflation and hastening the beginning of the next recessionary cycle and increasing its severity. Continuation of a policy of moderation still seems warranted.

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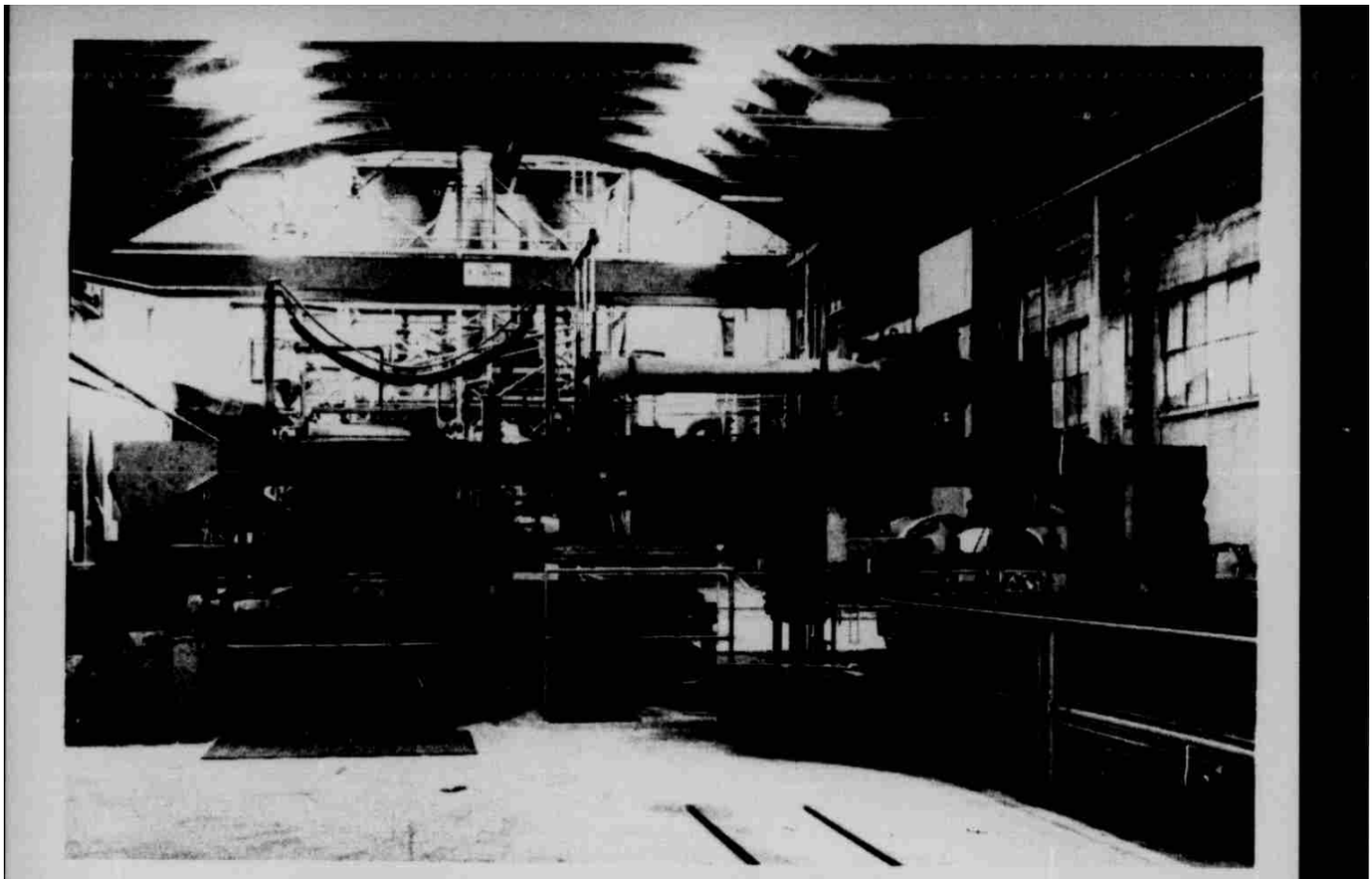
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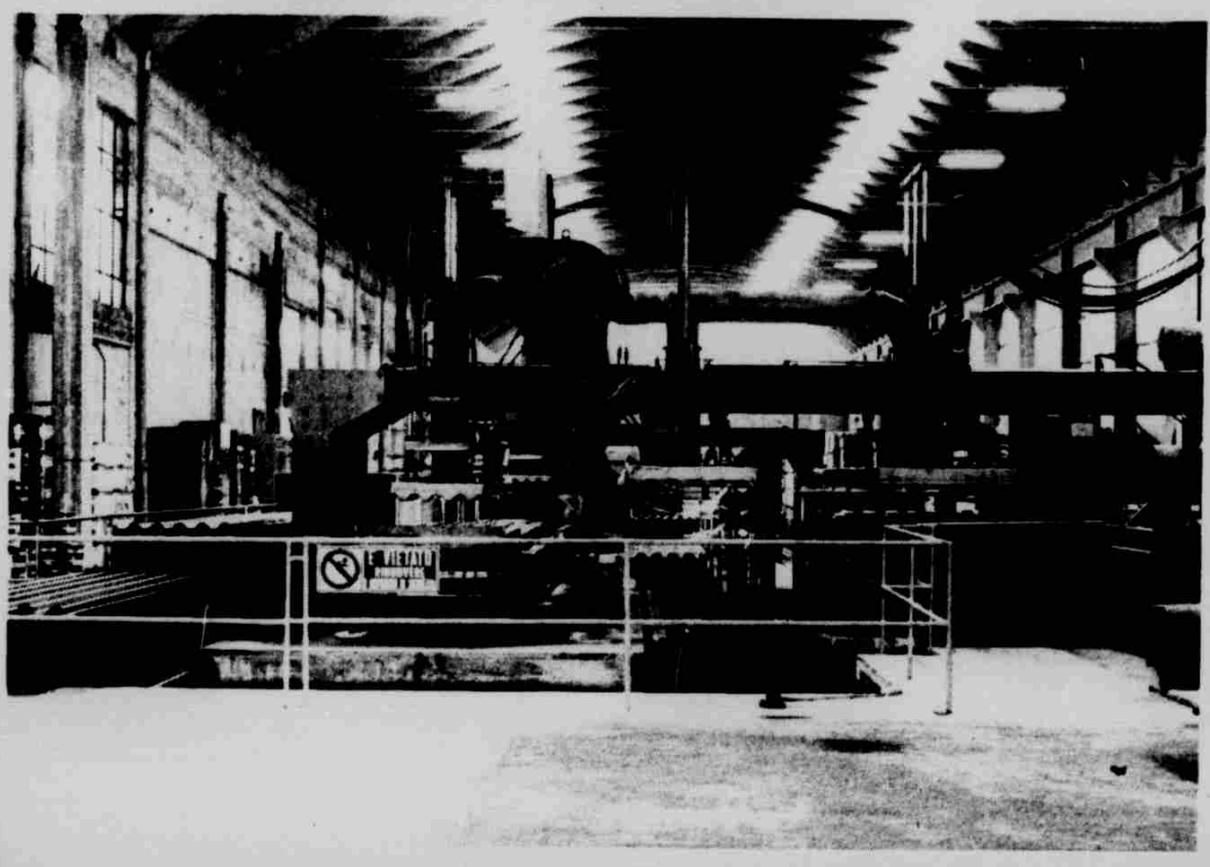
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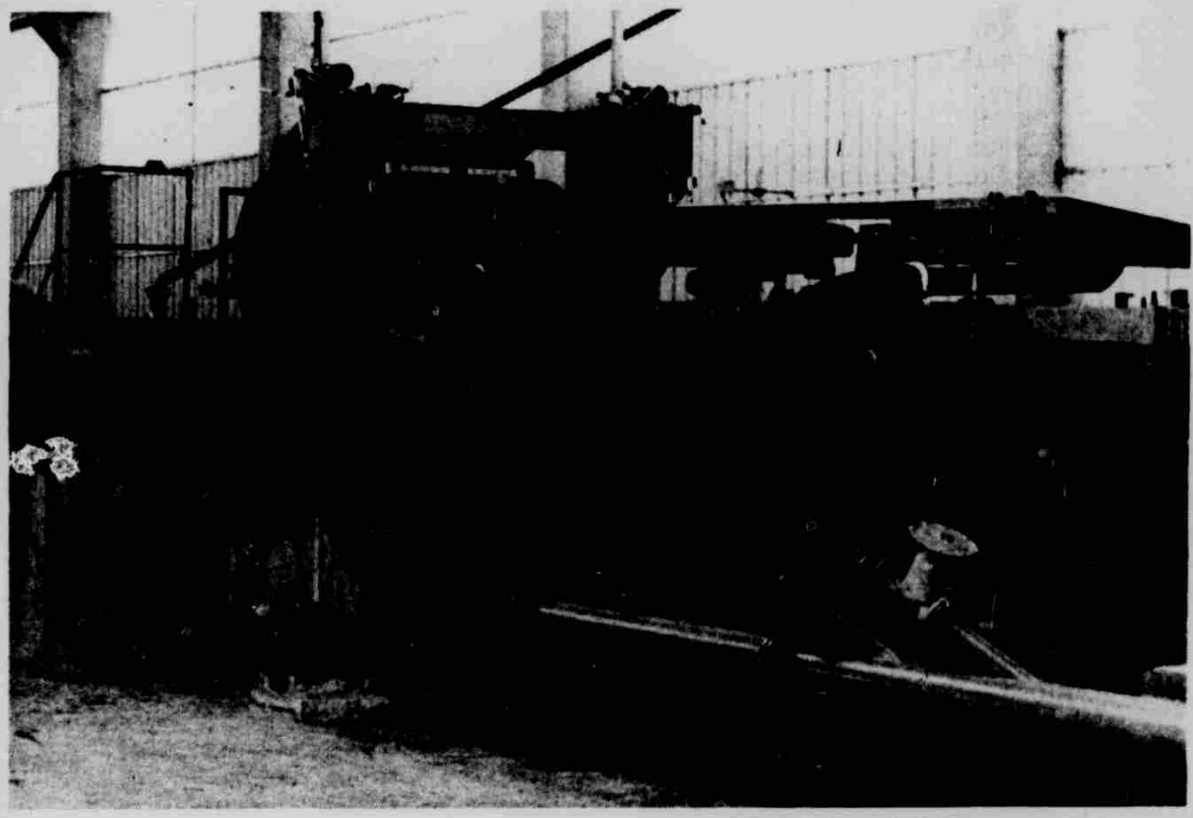
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PRODUCTION—IMPORTS—EXPORTS

IMPORTS INTO THE UNITED STATES

FROM: U.S. BUREAU OF THE CENSUS

		NOVEMBER 1975	
Unmanufactured Asbestos:			
Amosite, South Africa	s.tons	134	$ 75,960
Crocidolite (Blue), Mozambique	s.tons	94	10,820
South Africa	s.tons	180	122,810
Chrysotile, Crudes, Canada	s.tons	20	1,658
Chrysotile, Spinning Fibers, Canada	s.tons	394	297,989
South Africa	s.tons	30	18,990
Chrysotile, Other, Canada	s.tons	50,487	8,101,322
Italy	s.tons	44	12,540
Mexico	s.tons	5	1,218
United Kingdom	s.tons	58	11,396
Other Crudes & Fibers, Belgium	s.tons	48	4,599
Canada	s.tons	670	72,831
Italy	s.tons	66	8,798
South Africa	s.tons	407	134,639
USSR	s.tons	625	109,203
		53,262	$ 8,984,773
Manufactured Asbestos Products:			
Asbestos yarn, cloth, tape, etc.	Lb	524,223	$ 825,773
A-C pipes, tubes & fittings	Lb	416,760	44,899
Other asbestos-cement articles	Lb	1,387,696	264,106
Other asbestos articles		..	277,402
			$ 1,412,180

		JANUARY-NOVEMBER 1975	
Unmanufactured Asbestos:			
Amosite, South Africa	s.tons	3,756	$ 1,508,301
Crocidolite (Blue), Mozambique	s.tons	118	16,090
South Africa	s.tons	11,322	4,821,910
Chrysotile, Crudes, Canada	s.tons	71	9,045
Rhodesia	s.tons	1,633	1,521,421
South Africa	s.tons	940	663,658
Swaziland	s.tons	2,756	952,544
United Kingdom	s.tons	277	82,982
USSR	s.tons	4,158	867,507
Chrysotile, Spinning Fibers, Canada	s.tons	6,623	5,024,246
Rhodesia	s.tons	382	368,845
South Africa	s.tons	48	40,915
Chrysotile, Other, Canada	s.tons	432,713	80,604,851
Gaza Strip	s.tons	152	25,914
Italy	s.tons	44	12,540
Mexico	s.tons	71	14,452

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U.S. IMPORTS—CONTINUED

Rhodesia	s.tons	32	22,871
South Africa	s.tons	207	56,631
United Kingdom	s.tons	58	11,396
USSR	s.tons	86	38,640
Other Crudes & Fibers, Belgium	s.tons	48	4,599
Canada	s.tons	4,546	689,898
Finland	s.tons	329	32,841
Italy	s.tons	153	23,868
Rhodesia	s.tons	576	357,486
South Africa	s.tons	1,152	371,867
USSR	s.tons	5,292	1,238,427
		477,543	$99,383,745

Manufactured Asbestos Products:

Asbestos yarn, cloth, tape, etc.	Lb	7,902,262	$10,929,026
A-C pipes, tubes & fittings	Lb	11,361,820	1,143,385
Other asbestos-cement articles	Lb	37,674,611	5,273,325
Other asbestos articles		..	4,733,300
			$22,079,036

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EXPORTS FROM THE UNITED STATES

FROM: U.S. BUREAU OF THE CENSUS

Unmanufactured Asbestos:		NOVEMBER 1975	
Fibers not further processed than beaten, washed or graded to length	s.tons	586	$ 223,179
Waste and refuse	s.tons	1,444	345,273
		2,030	$ 568,452

Manufactured Asbestos Products:			
A-C shingles & clapboard	Lb	2,693,551	$ 404,675
Other a-c fiber-cement articles	Lb	730,839	226,922
Gaskets	Lb	76,075	88,035
Packing	Lb	251,025	736,739
Heat or sound insulation		..	619,214
Textiles & yarns	Lb	883,907	459,869
Protective clothing		..	122,804
Mfrs. other than friction materials		..	1,016,720
Clutch facings & linings for auto. use	No	11,091	22,798
Other clutch facings & linings	No	35,992	18,407
Brake linings for automotive use	Lb	588,959	479,740
Other brake linings	Lb	136,771	154,801
			$ 4,350,724

Unmanufactured Asbestos:		JANUARY-NOVEMBER 1975	
Fibers not further processed than beaten, washed or graded to length	s.tons	14,134	$ 5,688,288
Waste and refuse	s.tons	18,442	3,750,325
		32,576	$ 9,438,613

Manufactured Asbestos Products:			
A-C shingles & clapboard	Lb	26,083,591	$ 4,216,022
Other a-c fiber-cement articles	Lb	36,445,924	6,856,001
Gaskets	Lb	503,937	1,520,854
Packing	Lb	4,538,810	10,079,076
Heat or sound insulation		..	4,767,945
Textiles & yarns	Lb	10,104,196	6,522,957
Protective clothing		..	730,550
Mfrs. other than friction materials		..	10,376,789
Clutch facings & linings for auto. use	No	726,193	1,196,409
Other clutch facings & linings	No	532,915	306,561
Brake linings for automotive use	Lb	6,957,542	6,051,782
Other brake linings	Lb	1,897,372	2,553,442
			$55,178,388

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THE SYNTHETIC AND NEEDLED FELT FOR YOUR SHEET AND PIPE MACHINES

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3 stable and flat because of special heat-setting

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EXPORTS FROM CANADA

FROM: STATISTICS CANADA

NOVEMBER 1975

Short Tons

Unmanufactured Asbestos:	*Crude*	*Milled Gp 3*	*Milled Gp 4&5*	*Shorts Gp 6-9*
Western Europe	..	807	15,728	12,981
Eastern Europe	..	..	40	..
Middle East	..	..	833	627
Africa	..	..	100	175
Asia	..	5	3,227	3,288
Oceania	..	..	3,304	1,098
So. & Cen. America & Antilles	..	150	6,504	1,753
United States	2	778	11,463	47,285
	2	1,740	41,199	67,207

The total amount of unmanufactured asbestos exported in *November 1975* was 110,148 short tons, valued at $25,695,000.

Manufactured Asbestos Products:

Asbestos cloth, dryer felts & sheets	$ 112,000
Asbestos brake linings & facings	92,000
Asbestos-Cement building materials	244,000
Other basic asbestos products	360,000
	$ 808,000

JANUARY-NOVEMBER 1975

Unmanufactured Asbestos:	*Crude*	*Milled Gp 3*	*Milled Gp 4&5*	*Shorts Gp 6-9*
Western Europe	54	7,703	229,540	103,312
Eastern Europe	..	430	7,173	1,429
Middle East	..	100	12,454	5,558
Africa	..	..	5,090	945
Asia	45	859	48,209	51,267
Oceania	..	11	31,967	3,500
So. & Cen. America & Antilles	..	1,485	65,774	23,602
United States	103	6,485	138,697	307,919
	202	17,073	538,904	497,532

The total amount of unmanufactured asbestos exported in *January-November 1975* was 1,053,711 short tons, valued at $265,946,000.

Manufactured Asbestos Products:

Asbestos cloth, dryer felts & sheets	$ 2,311,000
Asbestos brake linings & facings	1,769,000
Asbestos-Cement building materials	6,471,000
Other basic asbestos products	3,779,000
	$14,330,000

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Proven-quality Canadian chrysotile now comes from Germany.

- NH-450, NH-460, NH-470 especially milled for the asbestos-cement industry.
- Ore mined in Canada.
- Mill constructed to Canadian standards throughout.
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289 Nordenham 21.
Telephone: 04731 /3631
Telex: 41-238312 acgnh
Telegramme: Asbestos

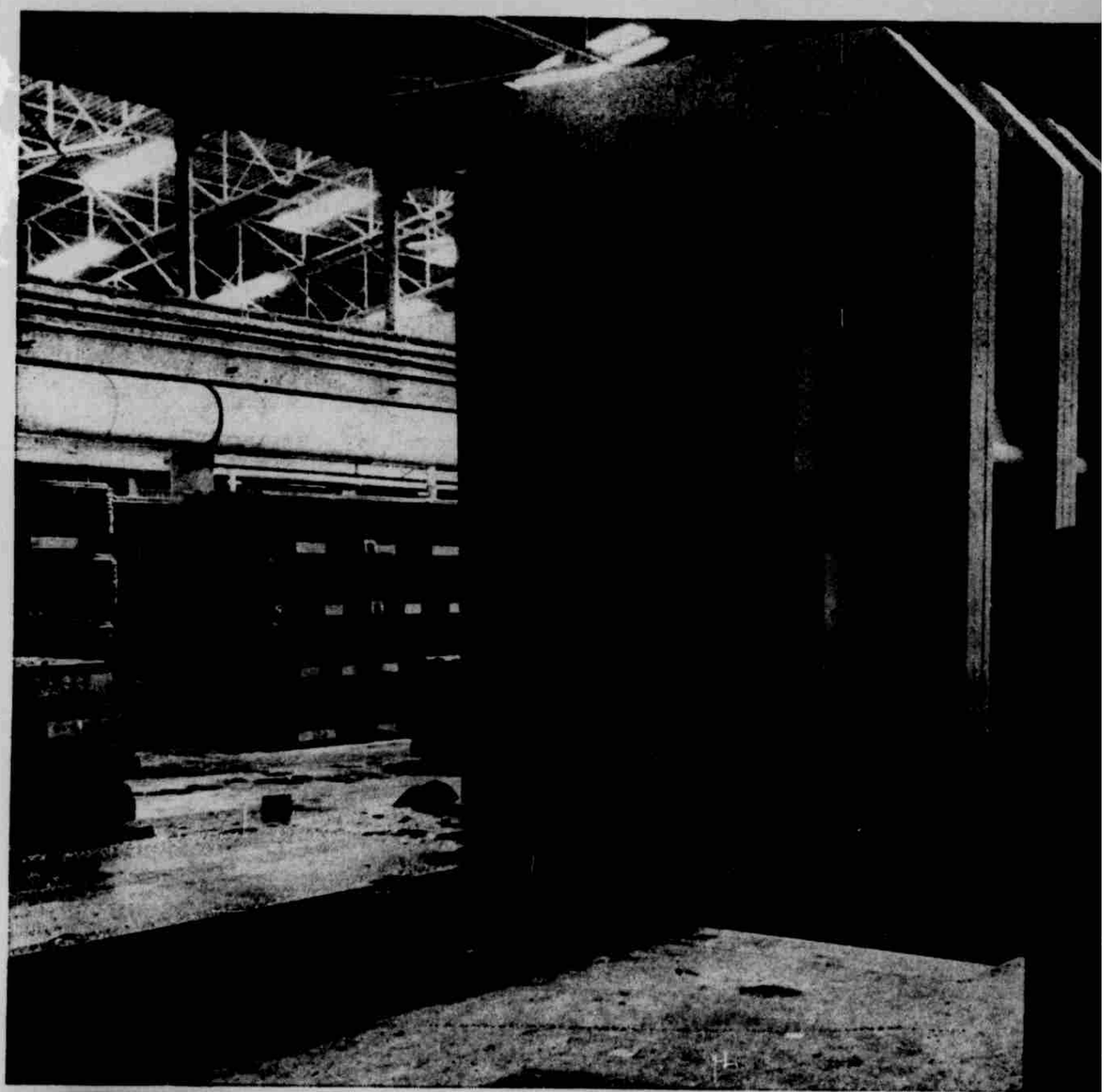
ASBESTOS



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Our Program
for the
Asbestos-Cement
Industry

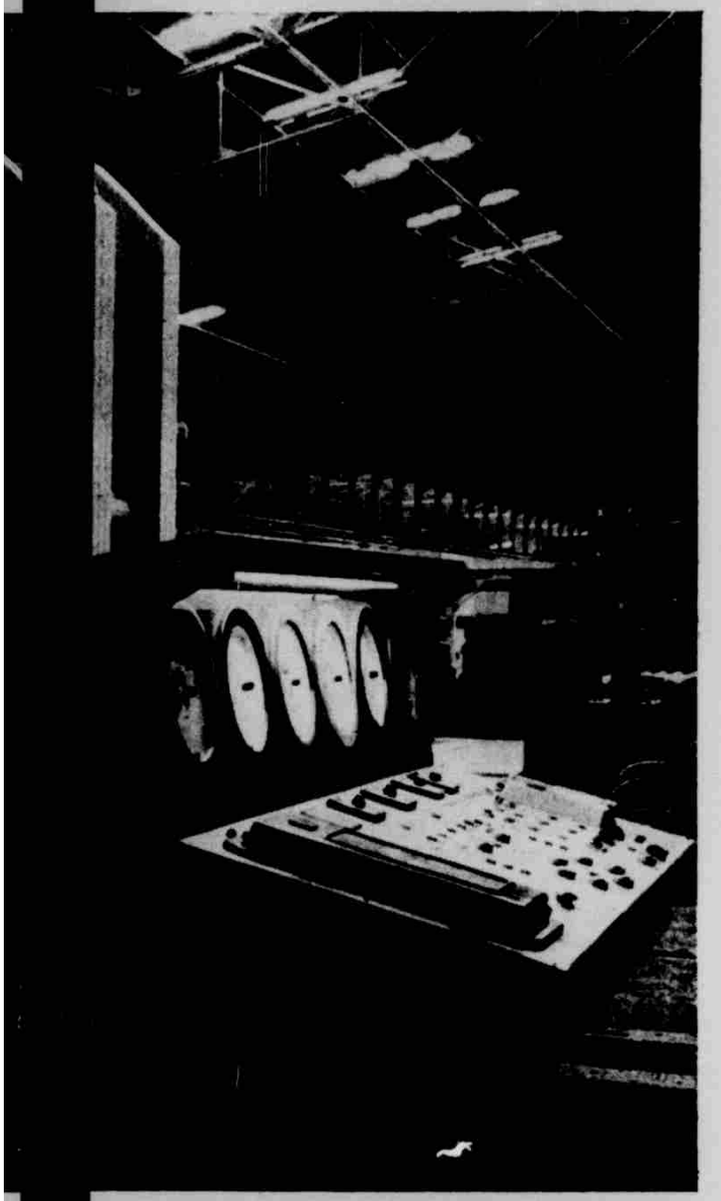
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production p
manufacture



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of:



flat and corrugated asbestos-cement sheets,
asbestos-cement tiles,
compound boards for prefabricated houses,
window sills,
stairs and other asbestos-cement products,
hydraulic presses for asbestos-cement sheets hydraulic punching presses for the manufacture of small size shingles out of asbestos-cement hydraulic pipe testing presses;
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12 000 tons press for the production of asbestos-cement sheets size of finished sheets: 1600 x 4000 mm

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THE MINING SCENE

WOODSREEF MOVES AHEAD

Woodsreef Mines Ltd. has issued the yearly report for the twelve months ended October 31, 1975, for its wholly-owned subsidiary, Chrysotile Corporation of Australia Pty. Ltd., operators of the Wood's Reef Asbestos Mine and Mill at Barraba, New South Wales. Sales revenue amounted to $13-million (Australian) compared with $5-million in the prior year and net operating loss (excluding exploration, capital and development expenditures) reached $2.7-million against $5.3-million. Fiber production totaled 49,472 metric tons for the latest year, 14,439 tons more than in 1974.

The Barraba Mill began operating exclusively on ore from the North Pit in May 1975. Ore grade is higher than that previously mined in the South Pit but its full potential will not be realized until the pit is completely opened and after the shallow-weathered ore is removed. Both of these projects are now well advanced.

Proven ore reserves at the North Pit at the end of November 1975 were determined to be 21.2-million tons, 1.26-million tons of which have already been mined. Probable reserves were calculated at 9.3-million tons. In addition, 10.1-million tons of economic-grade ore in the possible category have been inferred based on geological structural extensions and isolated diamond drill intersections. Based on current performance, estimated mill recovery is $8.50 per ton from proven reserves and $8.66 per ton from probable reserves. The remaining economic ore reserves in the South Pit have been recalculated and total 7.03-million tons of proven ore with an estimated mill recovery of $7.02 per ton.

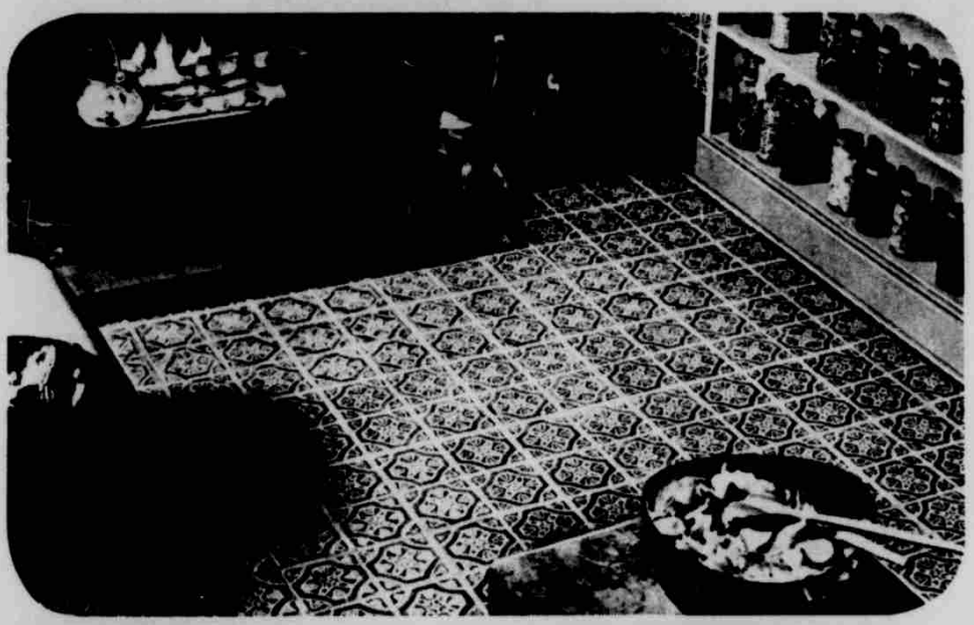
After seven months of operating experience with ore from the North Pit, Woodsreef feels it is now in a position to prepare forecasts. Revenue should increase as the open pit is enlarged and the more difficult-to-mill, shallow-weathered ore is removed. After adjustments to the Mill circuitry are completed in early 1976, it is estimated that average monthly revenue will reach $2.25-million.

At present the Barraba Mill has six production lines, but space has been provided in the structure for two additional lines. Installation of these two lines and associated fiber treatment equipment would increase average monthly revenue to $3-million. This expansion, estimated to cost $4.5-million, is conditional on successful refinancing. Operating costs with eight production lines would increase by approximately $350,000 per month.

A new mining equipment fleet has been ordered and is expected during the first quarter of this year. It will consist of nine 85-ton trucks, four front-end loaders and three bulldozers. By August, a new German-built hydraulic shovel will be delivered.

Based on the encouraging results being obtained from the North Pit ore and on the development of new geological structural theories, Chrysotile Corporation of Australia has identified four other areas at New South Wales which show potential for asbestos mineralization. Applications for Exploration Licenses have been filed.

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WHEN COLOR IS CRITICAL...
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Remarkably light in color, Lake Asbestos short fibres are the ideal reinforcing material for white or light-tone products. Use them in floor tiles, texture paints, caulking compounds, paper, and window glazing . . . wherever reinforcement and color are important.

Lake Asbestos short fibres have good bulking properties. You get more surface area into products to give them extra reinforcement against abrasion and impact.

For more information write: Technical Service Department, Lake Asbestos of Quebec, Ltd., Black Lake, Quebec, Canada. Or see our representative near you.

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Jensen-Souders Associates, Inc.—Chicago, Ill.

Michigan
Matteson-Ridolfi, Inc.
Detroit

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Ballardvale, Mass.

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LAKE ASBESTOS

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CHILE ASBESTOS

A 400-Hectare asbestos-containing property, owned by Sr. Carlos A. Baldeig, is for sale and the owner invites anyone interested to investigate its possible exploitation. The mine is situated about 700 kilometers south of Santiago, of equal distance to the loading ports of Talcahuano and Valdivia, and about 8 kilometers from the town of Lastarria which has a paved road, an electric power line and a railway system. Although the property has not been developed, it has been studied in the past but with no definite results published—evidently due to a lack of interest and the non-existence of an adequate laboratory in Chile. Sr. Baldeig can be reached at: Ecuador 182, Apt. 503, Vina del Mar, Chile.

J-M TO EXPLORE IN THE SUDAN

Johns-Manville Corporation signed an agreement with the Gulf International Group of Kuwait and the Government of the Democratic Republic of Sudan for the exploration and possible development of asbestos deposits in the Sudan. Under the pact, the Sudanese government grants J-M and Gulf International licenses to explore for asbestos over about 3,861 square miles (10,000 square kilometers) in the Blue Nile and Kassala Provinces for an 18-month to 3-year period. If exploration results prove favorable, the parties would form a joint venture for the mining and marketing of asbestos fiber. Johns-Manville would manage the mining operations and market the fiber for the joint venture.

McADAM DRILLS ARE WORKING

McAdam Mining Corporation Ltd. has been advised by Rio Tinto Canadian Exploration that 19,000 feet of large-core diamond drilling will be carried out immediately on its asbestos property at McCorkill Township, 20 miles east of Chibougamau, Quebec. Three drills have been moved to the property to sample the initial open pit layout by a grid of vertical holes. The program is under the direction of General Engineering Co. who recommended the completion of the preliminary evaluation stage. [Northern Miner]

PORTABLE PLANT FOR AYLMER MINES

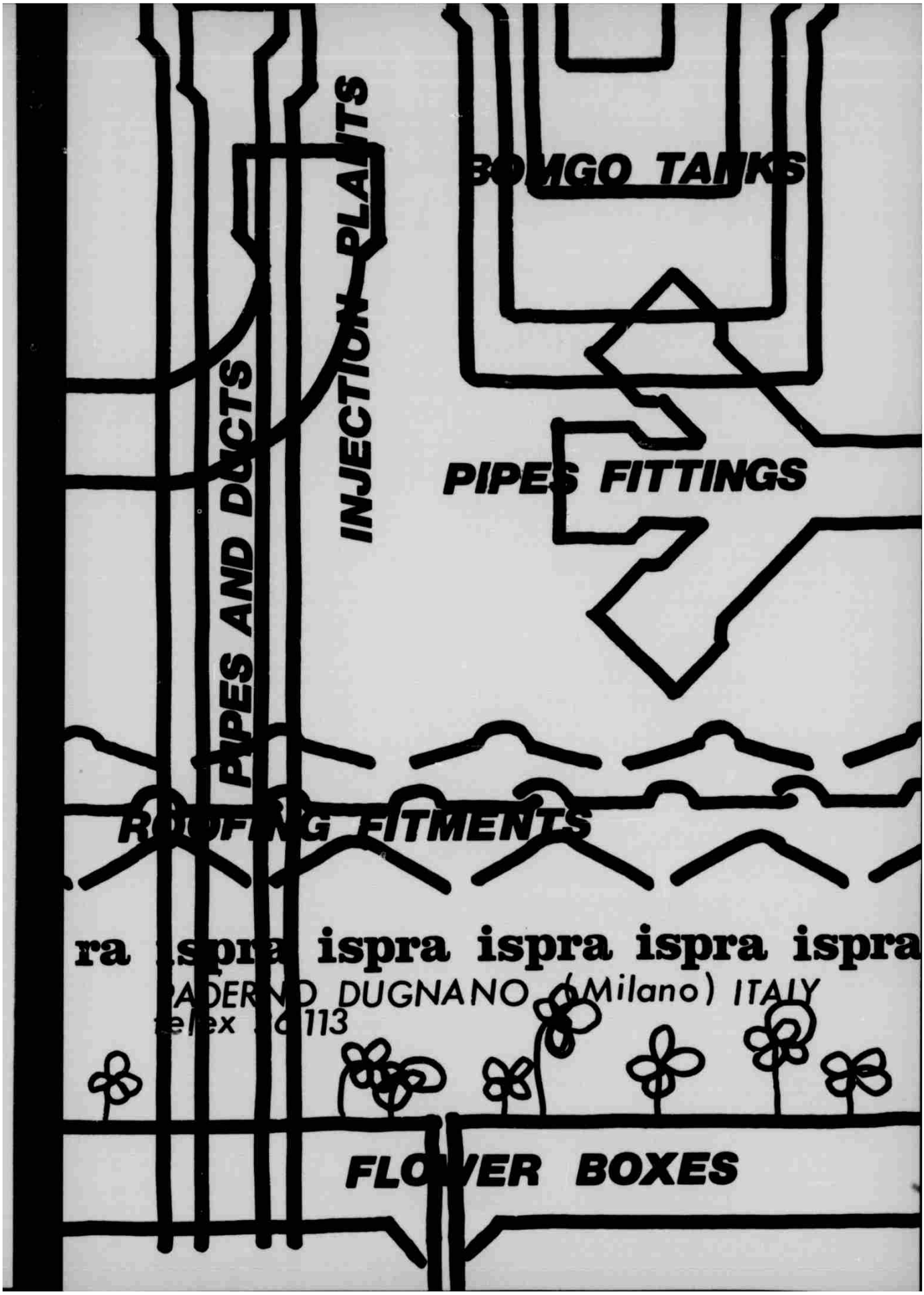
In early 1965, this Magazine learned that Aylmer Mines Ltd. held two asbestos deposits at Coleraine Township, Megantic County, Quebec. Diamond drilling, sampling and bulk testing undertaken in 1963-65 indicated large tonnages of asbestos, in Groups 4-7. A feasibility study was done in 1970-71. We have recently learned from Mr. Joseph Tchorewski, President of Aylmer, that the company currently owns Lots 5 and 6, Range 4, at Coleraine and is planning to construct a portable plant at the site.

—ASBESTOS WELCOMES THE FOLLOWING NEW ADVERTISERS—

AC UNDERGROUND—page 19

MINERAL & INTERTRADE—page 19

RHEINSTAHL—page 48


INJECTION PLANTS
PIPES AND DUCTS
PIPES FITTINGS
ROOFING FITMENTS
ispra ispra ispra ispra ispra
DUGNANO (Milano) ITALY
FLOWER BOXES

ANNUAL REPORTS—1975

HUMES LTD.

The 55th Annual Report and Statements of Account of Humes Ltd. and its subsidiaries for the year ended June 30, 1975, has been issued. Group profit after tax, but before extraordinary items, applicable to shareholders was $6.3-million (Australian). If last year's figure of $4.3-million is increased to reflect the reduction in tax rates in Australia and if the gain from tax effect accounting and the reduction from holiday pay accrual are eliminated from the current year's figures, the comparable results are: 1974/75—$5.5-million; 1973/74—$4.4-million. This represents a gain of 23.8% and shows the year was one of sound achievement. It should be noted, however, that the Consumer Price Index in Australia rose by 17% during the same 12-month period. . . . Capital expenditure for the Group for 1974/75, other than for investment purchases, totaled $9.2-million compared with $10.3-million the previous year.

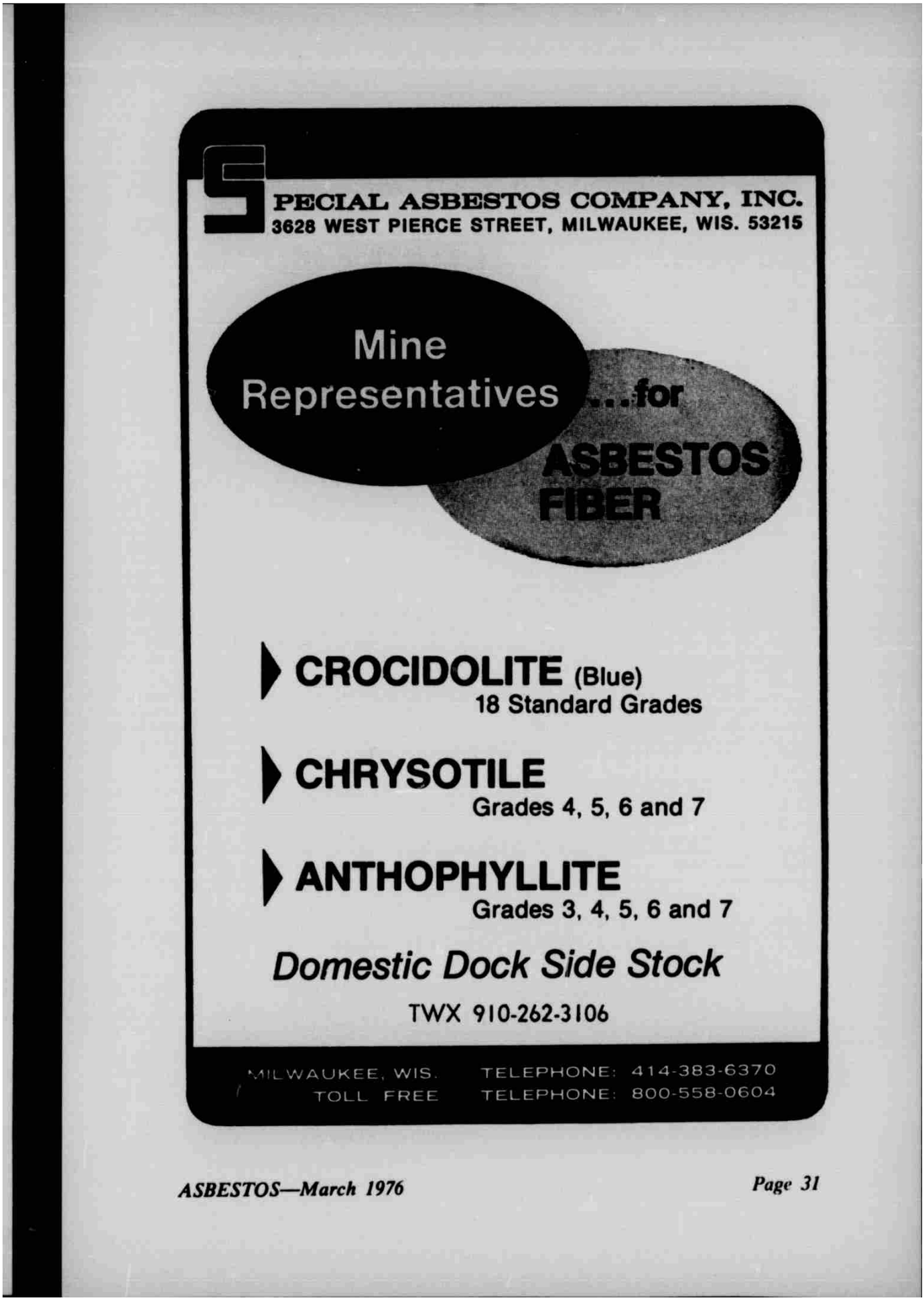
HUME INDUSTRIES (FAR EAST) LTD.—The Far East Group of Companies again experienced considerable growth at its main divisions despite the general worsening of trading conditions. Group profit after tax, but before extraordinary items and before eliminating the interests of outside shareholders, was $2.7-million compared with $2-million the previous year. The capital reconstruction was duly completed and the parent company's equity was reduced from 74.6% to 62.1%. . . . Hume Edible Oils Sdn. Bhd., 51% owned by Hume Industries (Malaysia) Bhd., was formed as a new company to fractionate palm oil. The plant is expected to begin operating in early 1976. . . . Since the end of the reporting period, Hume (Malaysia) has acquired four small Malaysian subsidiaries from its parent company, Hume (Far East). However, by arrangement with the Malaysian Government, Hume (Far East) has released a proportion of its entitlement to Malaysian Bumiputra interest.

JIM WALTER CORPORATION

Balanced product mix and generally better price realizations led Jim Walter Corporation to record performance levels for the fifth consecutive year, as new highs were established for the company's 29th year—ended August 31, 1975. Net income totaled $70-million, up 10% from the year earlier. On a fully diluted basis, earnings per share were $3.86 compared with $3.48 in 1974. Sales and revenues slipped 3% to $1.3-billion, with the decline due principally to lower volume of products for new residential and new non-residential construction markets.

MINERAL AND FIBER PRODUCTS GROUP—Sales and revenues slipped 9% to $405-million and income contribution declined 21% to $37-million. The lower sales and earnings were principally attributable to depressed levels of construction activity as housing starts slipped to 1.1-

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million units, 30% below the previous fiscal year. About 24% of the sales of this Group are directed to the new residential construction market. . . . *Celotex* experienced firm-to-moderately higher pricing throughout the year for commercial and residential roofing products, acoustical ceiling products, medium density hardboard and gypsum wallboard. Helping to sustain sales and operating margins was a buoyant renovation market which accounted for approximately 40% of the Group's total sales in 1975. Automotive mastic and specialty felt sales were adversely affected by declining sales in the automotive industry but showed an upturn late in the year prior to the introduction of 1976 models. . . . Operating results for the first six months at *Carey-Canadian Mines Ltd.* were above 1974 levels due to price increases and higher production of the longer fiber grades, but the subsequent 7-month-long strike brought operating results below the previous year. Depressed conditions in the United States, Europe and Japan, principal markets for Carey-Canadian's output of short asbestos fibers, kept production of these grades below 1974 levels. To offset the softening demand, Carey Canadian directed mining activities at its complex at Thetford Mines, Quebec, to the increased processing of medium and long grade fibers which are expected to continue in strong demand for at least the next five years.

ASBESTOS STOCK QUOTATIONS

Close—February 17, 1976

Abitibi Asbestos	C$1.08	G&W (pfd 2.50)	41 3/4
Advocate Mines	C$1.95	G&W (pfd 3.87)	90
Armstrong Cork	29 3/8	G&W (pfd 5.75)	74 1/4
Armst. Cork (pfd 3.75)	49	IC Industries	18 5/8
Asarco	16 1/2	IC Ind. (pfd 6)	85
Asbestos Corporation	C$27.125	IC Ind. (pfd 3.50)	38 5/8
Bendix	54 7/8	Jim Walter Corporation	43 5/8
Bendix (pfd 3)	81 1/2	Jim Walter (pfd 1)	10 3/4
Carlisle	14 1/2	Jim Walter (pfd 1.60)	46 3/4
Cassiar Asbestos	C$8.125	Johns-Manville	27 3/8
Cerro Corporation	19	Kennecott Copper	32 3/8
Certain-teed Products	19 5/8	Maremont	17 7/8
Charter Conso.	pence 149	McAdam Mining	C$.46
Colt Industries	37 1/2	National Gypsum	15
Colt Ind. (pfd 1.60)	22 3/4	Pathfinder	C$.40
Colt Ind. (pfd 4.25)	56 1/4	Raybestos-Manhattan	31 3/8
Conwest	C$3.70	Rio Algom	C$34.75
Flintkote	19 1/4	Royal Industries	7 1/2
F-kote (pfd-A 4.50)	57 7/8	Supradur	Bid 4 1/4; Asked 4 3/4
F-kote (pfd-B 2.25)	29	Union Carbide	73 1/4
GAF Corporation	15 3/8	Uniroyal	10 1/4
GAF (pfd 1.20)	20 1/2	Uniroyal (pfd 8)	79
Gulf & Western	23 3/8	United Asbestos Inc.	5 3/8
G&W (warrants)	5 3/4	Woodsreef Minerals	C$.62

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SIR WILLIAM FENTON
1891—1976

Sir William Fenton, Honorary President of BBA Group Ltd., Cleckheaton, West Yorkshire, England, passed away on January 24, 1976. He served as Joint Managing Director from 1925 to 1937, Managing Director from 1937 to 1959 and Chairman from 1954 to 1969, at which time he was appointed the first Honorary President of the Company. He joined the firm in 1907.

BBA entered the asbestos business in 1920 when, as Scandinavia Belting Ltd., it was purchased by The British Asbestos Company, producers of asbestos yarn and other asbestos materials. In 1925 British Asbestos was liquidated and the name of Scandinavia Belting was changed to British Belting & Asbestos Ltd. The company traded under this name until 1967 when a holding and management firm—BBA Group Ltd.—was formed and the asbestos interests were transferred to Scandura Ltd., a subsidiary.

One of Sir William's major interests was the improvement of working conditions in the British asbestos industry. He was a member of a committee formed by the Home Office to investigate methods of suppressing asbestos dust, which led to the U.K. Asbestos Industry Regulations of 1931. He was a Founding Member of the Asbestosis Research Council and served as Chairman from 1957 to 1959 and from 1963 to 1965.

Sir William was an active member of many professional, business and civic organizations. In 1965 he was admitted as an Honorary Freeman of the Borough of Spenborough "in recognition and appreciation of his outstanding public service to Spenborough and its industry over a period of very many years and as a token of the honour and esteem in which he is held both by the Civic Authority and the inhabitants of the Borough."

Born at Lanark, Scotland, Sir William was the eldest son of John Fenton and Jessie (nee Miller) and grandson of William Fenton, one of the founders of the company. He received a Knighthood for his public services on January 1, 1954.

EDGARD MEDARD BOLLAERT
1907—1975

Edgard Medard Bollaert, age 68, died November 9, 1975, near his home in Princeton, Illinois. During his productive career in the Asbestos Industry, he served as Plant Manager of the Van Packer Corporation, Buda, Illinois (part of the Flintkote Company), and as Manager of PABCO Products Corporation, Redwood City, California. He also had been employed by U.S. Gypsum Company and The Philip Carey Manufacturing Company and was Co-Founder of Pacific-Asbestos Cement Products Corporation, San Bernardino, California. A native of Belgium, Mr. Bollaert was awarded the 6th Casting of the Asbestos Story Ring in 1956.

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FLINTKOTE ASBESTOS



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That's us. The Flintkote Company. We recommend it to you too. After all, we use Flintkote asbestos in many Flintkote products. Like floor tile; roofing shingles; felts and building papers; industrial coatings; and pipe.

Flintkote asbestos makes lots of things better. Perhaps *your* products. Asbestos is inert, fireproof, non-oxidizing, moisture-proof, bug-proof. And inexpensive. Flintkote can meet and control production to exacting specifications.

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BIRTHDAYS & PROMOTIONS

H. D. S. Hardie, a Director, Turner & Newall Ltd., Manchester, England, April 15.
Arch. Mackintosh, Managing Director, Wunderlich Ltd., Sydney, New South Wales, Australia, April 15.
Harold U. Zerbe, a Director, Hedman Mines Ltd., Bethlehem, Pennsylvania, April 15.
Philip A. Meyer, Consultant, Nicolet Industries, Inc., Short Hills, New Jersey, April 16.
Adi K. Patell, Sales Administrator, Carey-Canadian Mines Ltd., East Broughton, Quebec, April 16.
Wesley E. Gatewood, President-Pipe & Plastics Group and Vice President, Certain-teed Products Corporation, Valley Forge, Pennsylvania, April 17.
G. A. Higham, Managing Director, Cape Industries Ltd., London, England, April 17.
Henry E. Sporrer, Production Manager, A/C Products Group, Wunderlich Ltd., Sydney, New South Wales, Australia, April 17.
Robert A. Matthews, Vice President, Supradur Manufacturing Corporation, Kalamazoo, Michigan, April 18.
S. P. Milburn, Managing Director, Ferodo Italiana S.p.A., Mondovi, Italy, April 18.
Robert A. Clifton, Asbestos Specialist, Division of Nonmetallic Minerals, U.S. Bureau of Mines, Washington, D. C., April 20.
Harold E. Gilbert, Manager-Felt Mill, The Celotex Corporation, Lockland Plant, Cincinnati, Ohio, April 20.
Norman W. Kelly, Mine Superintendent, Clinton Mine, Cassiar Asbestos Corporation Ltd., Clinton Creek, Yukon Territory, April 23.
William T. Cavanaugh, Managing Director, American Society for Testing and Materials, Philadelphia, Pennsylvania, April 24.
R. D. Armstrong, President & Chief Executive Officer, Rio Algom Ltd., Toronto, Ontario, April 25.
L. R. Blair, Vice President-Licensing and Technology Transfer, Johns-Manville Corporation, Denver, Colorado, April 26.
P. W. C. Griffith, Deputy Chairman, Turner & Newall Ltd., Manchester, England, April 26.
Robert A. Rabatsky, Vice President & General Manager, Pipe Products Division, Building Products Group, The Flintkote Company, Akron, Ohio, April 28.
W. Jerry Rooney, Marketing Manager, Gasketing Division, Nicolet Industries. Inc., Ambler, Pennsylvania, April 28.
Calvin M. Edwards, Works Manager, Southern Asbestos Company, Bennettsville, South Carolina, April 29.
Richard H. Jaffer, President, York Insulation Company, Inc., Hillside New Jersey, May 1.
S. Davis Weaver, President, Cement Asbestos Products Company, Birmingham, Alabama, May 1.
R. L. Hennebach, President, ASARCO Incorporated, New York City, May 2.
Reynold Nebel, Vice President, Production & Engineering Development

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Rejected?



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At Scapa Textiles we know the problems of sheet and pipe production.

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The Asbestos-Cement Felt Division of Scapa Group Ltd.

Division, Johns-Manville Corporation, Denver, Colorado, May 3.

G. R. Vincent, Mine Manager, Clinton Mine, Cassiar Asbestos Corporation Ltd., Clinton Creek, Yukon Territory, May 3.

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

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

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

J. Randall Plummer, General Manager, Pars Manufacturing Company, Ambler, Pennsylvania, May 6.

John P. Hayes, Corporate Group Vice President & a Director, National Gypsum Company, Buffalo, New York, May 9.

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

C. R. Elliott, Vice President, Secretary & a Director, Cassiar Asbestos Corporation Ltd., Vancouver, British Columbia, May 11.

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

CERTAIN-TEED PRODUCTS CORPORATION

Dr. John T. Fey was elected a Director, it was announced by *Donald E. Meads*, Chairman of the Board. Dr. Fey is Chairman of the Board of the Equitable Life Assurance Society of the United States.

George Haufler, President, announced the appointment of *William A. Krivsky* to the newly-established office of Group Executive-Piping System Products, responsible for the Pipe and Plastics Groups, the new Utility and Agriculture Supply Group and Productos Mexalit. Mr. Krivsky joined Certain-teed in 1974 as Vice President-Operations Development.

THE FLINTKOTE COMPANY

Monte C. Carpenter was elected President and Chief Operating Officer. *James D. Moran* will continue as Chairman and Chief Executive Officer. Mr. Carpenter joined Flintkote in 1965 as General Manager of the Building Materials Division. In 1967 he was appointed Vice President and General Manager, Building Products Group, and in 1971 was elected to the Board of Directors. He was named Executive Vice President in 1974.

Fred R. Sullivan was elected a Member of the Flintkote Board of Directors, filling the unexpired term of *George J. Pecaro* who resigned from the Board at the end of 1975. Mr. Sullivan is Chairman of the Board and President of Walter Kidde & Company.

TURNER & NEWALL LTD.

Sir Ralph Bateman has announced his intention to retire from the Chairmanship and from the Board of T&N on July 31, 1976. From August 1, *P. W. C. Griffith* will serve as Chairman and *S. Gibbs* will be Deputy Chairman. *C. W. Newton* and *J. K. Shepherd* will be Managing Directors.

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PAPERS, HANDBOOKS & REPORTS

ASBESTOS AND FRICTION MATERIALS—Presentation given by Mr. A. Calamandrei, Chairman of Societa Italiana per l'Amianto, to the Rotarians at Milan; discusses the early use of asbestos from the time man used it to convey his magical powers and the Greeks and Romans spun the fibers and wove the threads into fabrics for use during royal cremation ceremonies; relates progress in product manufacturing through the years starting with the asbestos paper mill established about 1830 by Pope Pius IX; traces the general history of asbestos friction materials [16 pages; contact ASBESTOS Magazine for further information].

HANDBOOK OF OCCUPATIONAL SAFETY AND HEALTH—Guide for those with little experience in the field of safety and health; emphasizes the management techniques required to develop an effective safety program; explains the technical skills needed to administer a continuing safety program; stresses specifics such as machine and tool safety, materials handling and storage, selection and use of personal protective equipment, and fire protection [266 pages; SN#129.03; $6,00; National Safety Council, 425 North Michigan Avenue, Chicago, Illinois 60611].

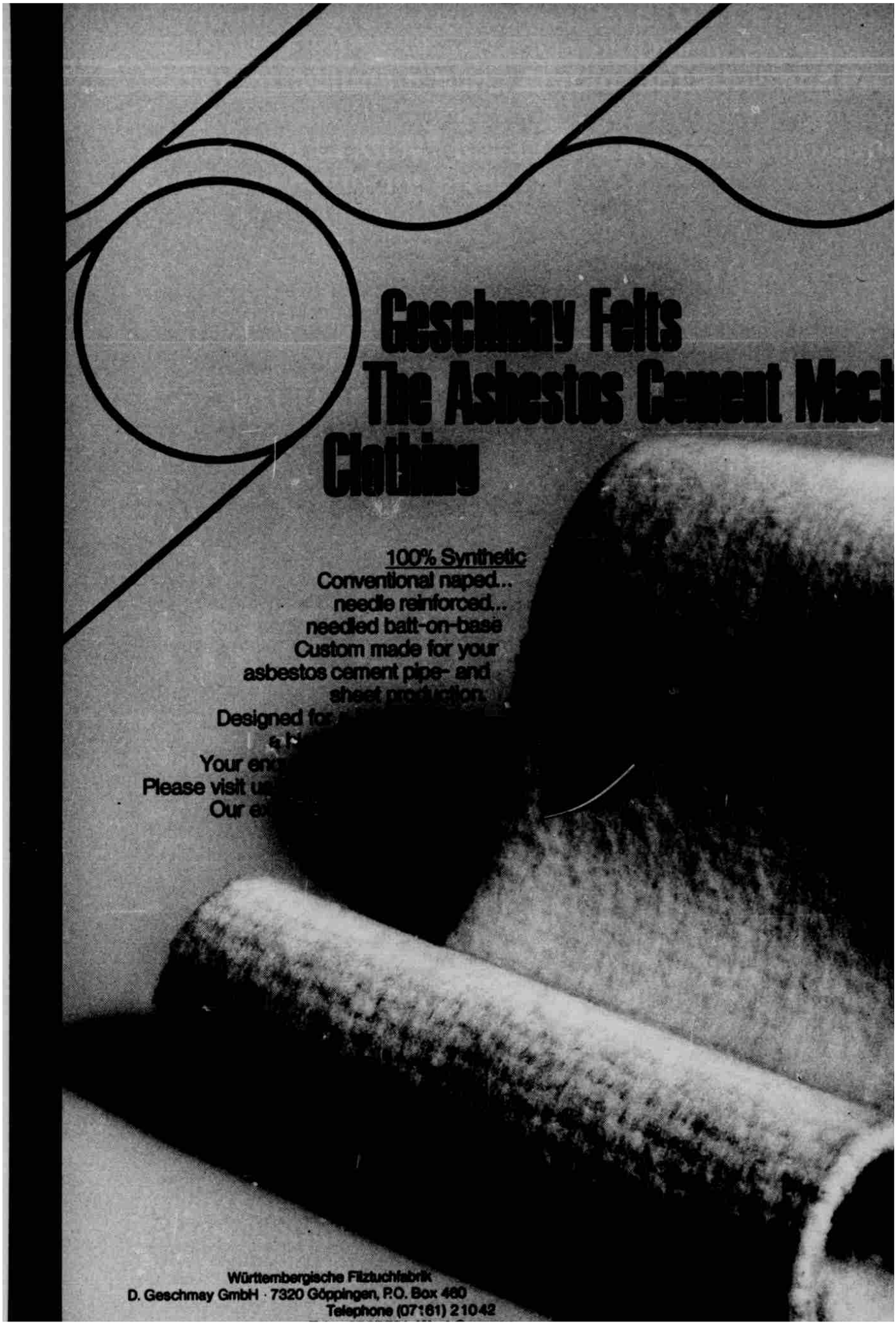
PRECAUTIONS IN THE USE OF ASBESTOS IN THE CONSTRUCTION INDUSTRY—Report by the Sub-Committee of the U.K. Joint Advisory Committee on Safety and Health in the Construction Industries; discusses demolition, information sources, portable power-driven tools and training; includes a list of organizations who provide air monitoring and analytical services and supply suitable vacuum cleaning and exhaust equipment [14 pages; 17 pence; Her Majesty's Stationery Office, London].

CONTRIBUTION OF "VNIIPROEKTASBEST" TO THE DEVELOPMENT OF THE MINING AND PROCESSING OF ASBESTOS ORES—Report on research which resulted in several improvements in asbestos production methods including oblique drilling for combined blasting, remote discharging of trucks, ore-dressing machinery, automatic drying and classification, pneumatic transportation, sanitary conditions, utilization of wastes and economic evaluations [Contact Asbestos Bulletin, 22-23 North Street, Guildford, Surrey GUI 4TA, England].

HANDLING ASBESTOS/CHRYSOTILE ASBESTOS IN PLASTICS—Paper presented by John L. Myers of Union Carbide Corporation qt the 1975 Management Seminar of the Golden Gate Society; key words include asbestos, plastics, air pollution and toxicology [5 pages; Journal of Paint Technology; December 1975].

RECONSTITUTED ASBESTOS MATRIX FOR FUEL CELLS—Commercially-available fuel-cell-grade asbestos matrix stock can be reprocessed to yield highly-improved matrices with greater porosity and bubble pressure, improved homogeneity and greater uniformity [NASA Tech Brief B75-10339; photocopy available from ASBESTOS Magazine for 40¢.].

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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.

British 1,416,492—Automotive brake elements having long life and good braking action are formed from a mixture of (1) phenolic resin microspheres or glass microspheres and (2) conventional ingredients such as asbestos, barium sulfate, a cashew nut shell oil-aldehyde condensation product, and a phenolformaldehyde binder; assigned to Union Carbide Corporation, December 3, 1975; 6 pages.

Japanese Kokai 74/14,195—Fires in buildings are extinguished by spraying them with a mixture of (1) fresh water, sea water or a solution of sodium bicarbonate or a soap and (2) asbestos or glass fibers which have been treated with silicic acid or alumina to improve their hygroscopicity; S. Tsujic; assigned to Slag Wool Industry Company, Inc., April 5, 1974; 2 pages.

Japanese Kokai 74/58,139—A filler for use in polyvinyl chloride articles is made by mixing water with asbestos, acrylic acid, sodium sulfite, sodium lauryl sulfate and potassium hyposulfite to form a copolymer latex, and neutralizing and freeze-drying the copolymer latex; N. Sugiyama; assigned to Mitsubishi Monsanto Chemical Company, June 5, 1974; 7 pages.

U.S. 3,923,535—A quick-setting, non-shrinking composition for filling the spaces between the cooling plates and the shell of a blast furnace consists of liquid glass, asbestos, river sand, ferrochrome slag, chamotte powder, diesel oil and water; L. B. Zilberman, S. B. Krakhmalnikov, G. A. Kudinov, D. B. Kutsykovich; J. G. Moiseev & A. M. Shneider, December 2, 1975; 3 pages.

U.S. 3,923,721—A low-blistering asbestos/resin composition comprises (1) a resin produced by the reaction of a diether with a phenolic compound, (2) fumed silica, (3) asbestos and (4) a curing agent; A. G. Edwards & G. I. Harris; assigned to Albright & Wilson Ltd., December 2, 1975; 8 pages.

U.S. 3,924,023—Dimensionally stable floor tiles having a durable wear layer are made by forming a sheet from a mixture of asbestos, vinyl chloride copolymer, fillers, plasticizer, pigment and stabilizers, surface-printing the sheet, covering the sheet with a cross-linked polymer, curing the polymer and cutting the sheet into individual tiles; A. G. Boranian & B. Terwilliger; assigned to GAF Corporation, December 2, 1975; 19 pages.

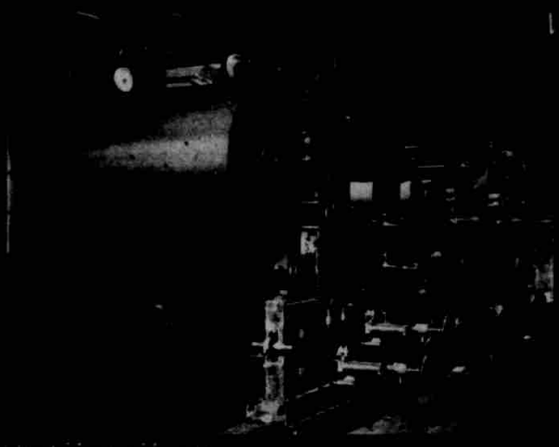
U.S. 3,926,652—A rapid-drying composition for forming porous masses in acetylene containers consists of preferably about 6.1% by weight of lime, 7.1% of diatomite, 2.4% of silica flour, 4.7% of asbestos, 2.4% of expanded perlite of which more than half is finer than 325-mesh and the remainder water; W. J. Sisco, Jr., C. L. Long & J. M. Kifer; assigned to Coyne Cylinder Company, December 16, 1975; 3 pages.

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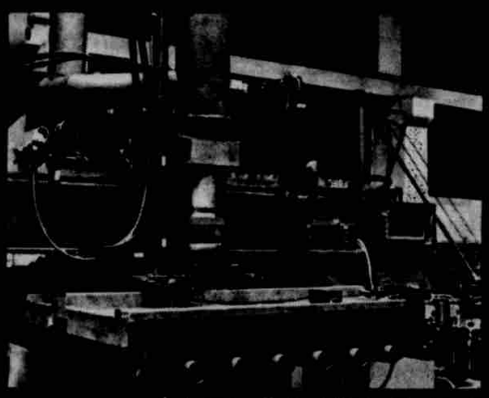
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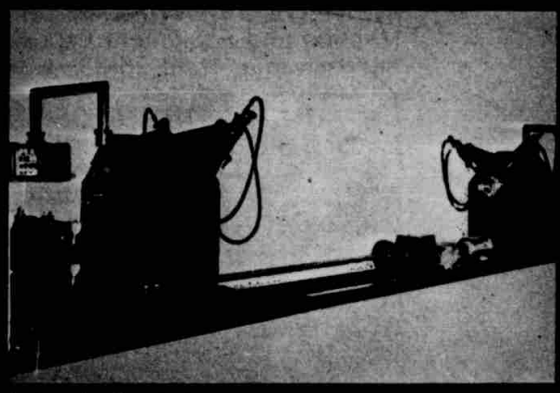
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CALENDAR OF EVENTS

INDUSTRIAL POLLUTION CONFERENCE—Sponsored by the Water and Wastewater Equipment Manufacturers Association, Inc.; Houston, Texas, *March 30-April 1.*

FIRE STANDARDS AND SAFETY—Symposium co-sponsored by ASTM and the National Bureau of Standards; Gaithersburg, Maryland, *April 5-6.*

ENVIRONMENTAL HEALTH COURSE—Topics will include pollutants, contamination of consumer products, legal aspects, standards, noise, radiation, carcinogens, epidemiology and toxicology; New York University, Institute of Environmental Medicine, New York City, *April 5-16.*

FUNDAMENTALS OF INDUSTRIAL TOXICOLOGY—Seminar conducted by the American Industrial Hygiene Association; Marriott Hotel, Los Angeles, California, *April 6-7.*

FUNDAMENTALS AND NEEDS OF INDUSTRIAL HYGIENE—Training Course sponsored by Industrial Health Foundation and Pittsburgh Section of American Industrial Hygiene Association; Holiday Inn, Sewickley, Pennsylvania, *April 6-8.*

GOVERNMENT AFFAIRS SEMINAR—Held by the Air Pollution Control Association; International Inn, Washington, D. C., *April 7-8.*

INSTITUTE OF ENVIRONMENTAL SCIENCES—22nd Annual Technical Meeting and Equipment Exposition; The Sheraton Hotel, Philadelphia, Pennsylvania, *April 25-28.*

CANADIAN INSTITUTE OF MINING & METALLURGY—78th Annual General Meeting; Quebec City, *April 25-29.*

SCIENCE OF OCCUPATIONAL ERGONOMICS—Seminar conducted by the American Industrial Hygiene Association; Holiday Inn-Jetport West, Elizabeth, New Jersey, *April 26-27.*

WEIZMANN CENTENARY SCIENCE CONFERENCE—Sponsored by the South African Committee of the Weizmann Institute of Science in collaboration with the Council for Scientific and Industrial Research; University of the Witwatersrand, Johannesburg, South Africa, *April 26-28.*

PIPEX '76—The Pipeline Engineering Exhibition and Convention organized by Brintex Ltd.; Earls Court, London, England, *April 27-30.*

INDUSTRIAL MINERALS—2nd International Congress; includes the presentation of papers dealing with a wide variety of minerals and topics of interest to non-metallic minerals industries plus field excursions to some important mineral operations; Sheraton Hotel, Munich, West Germany, *May 17-19.*

9TH WORLD MINING CONGRESS & INTERNATIONAL MINING EXHIBITION—Dusseldorf, Germany, *May 22-29.*

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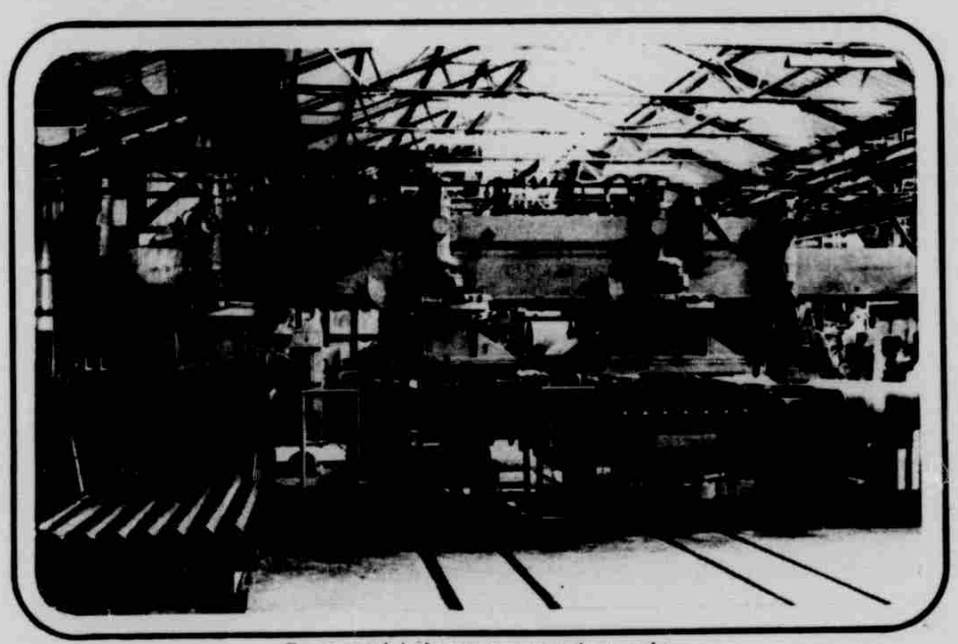
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(*February 1926 ASBESTOS*)

New Advertisers: The Raybestos Company, Bridgeport, Connecticut;
B. Marcuse, New York City.

An article traced the growth of The Raybestos Company from its beginning in 1901 as the Royal Equipment Company to the multi-plant enterprise it had become in 1926.

Another article covered asbestos mining activities in New South Wales and included a description of the operations being carried on at Woodsreef near Barraba by Wunderlich Ltd.

The second of the series on the Manufacture and Use of Asbestos Paper was included in this issue.

It was announced that James Hardie & Co. Pty. Ltd. was establishing a plant in Victoria, Australia, for the manufacture of Fibrolite asbestos-cement sheets and allied products.

ASBESTOS reported the death, on January 24, 1926, of Joseph Oliver Stokes, President of Thermoid Rubber Company and Stokes Asbestos Company, of Trenton, New Jersey. Mr. Stokes had been an executive of several companies engaged primarily in the rubber business and, with his brother W. J. B., was a co-founder of Thermoid and of the Joseph Stokes Rubber Company.

(*March 1926 ASBESTOS*)

A communication from a reader was published, suggesting that, in view of the recent merger of a number of Canadian asbestos mining companies, the time was ripe for industry-wide standardization of the gradings of asbestos crudes and fibers. One idea suggested was to designate grades by number with each number representing a specific fiber grade as determined by test on the standard testing machine. This, obviously, was a forerunner of the present system of classifying fiber by well-defined Group Numbers.

The lead article described the development, by H. H. Robertson Company, of the roofing and siding material known as Robertson Process Metal. Consisting of steel sheet protected from the elements by coatings of asphalt, asbestos felt and a special waterproofing compound, the material was finding wide use in the construction of industrial buildings.

This issue announced the formation, in late 1925, of Marshall Leffler and Company, Kansas City, Missouri. The new firm was to deal in asbestos and asphalt products as a jobber and contractor.

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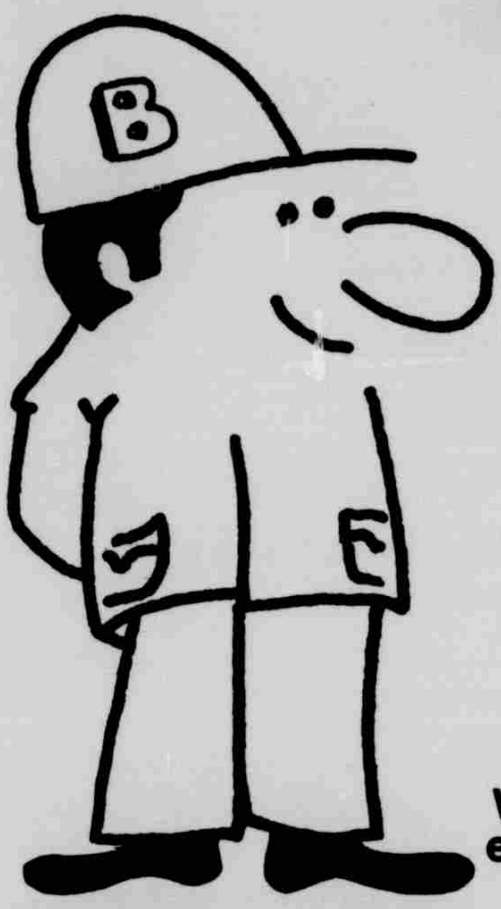
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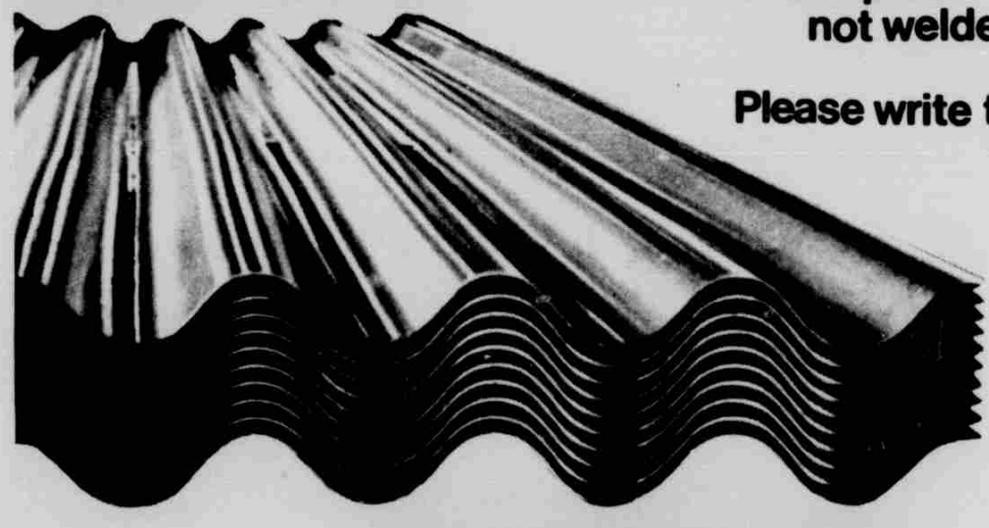
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