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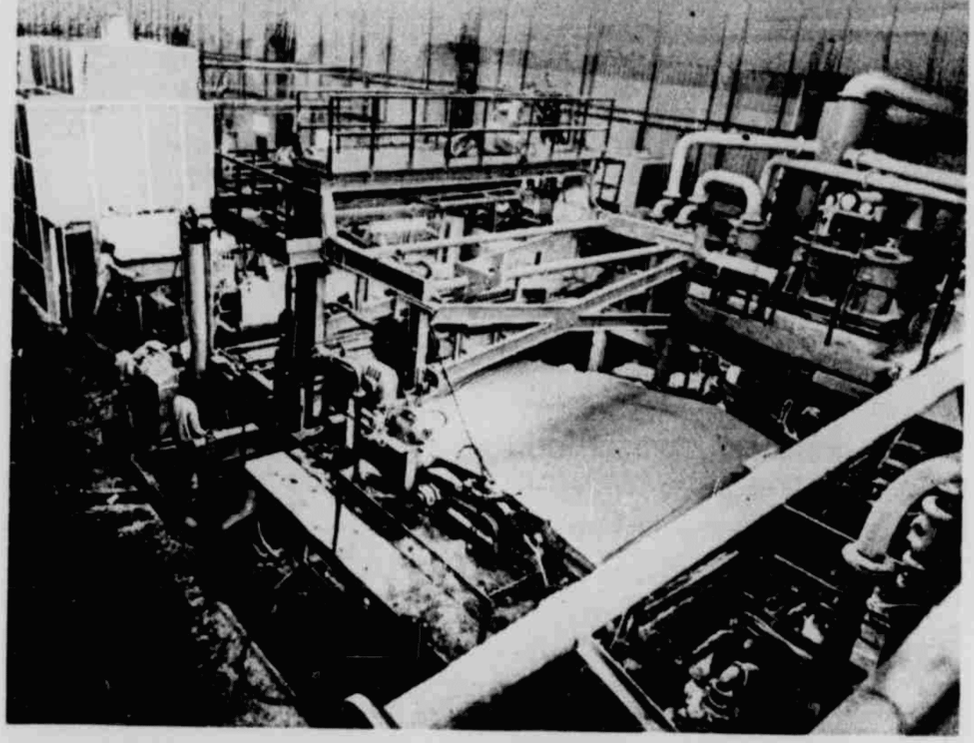
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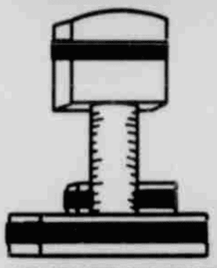
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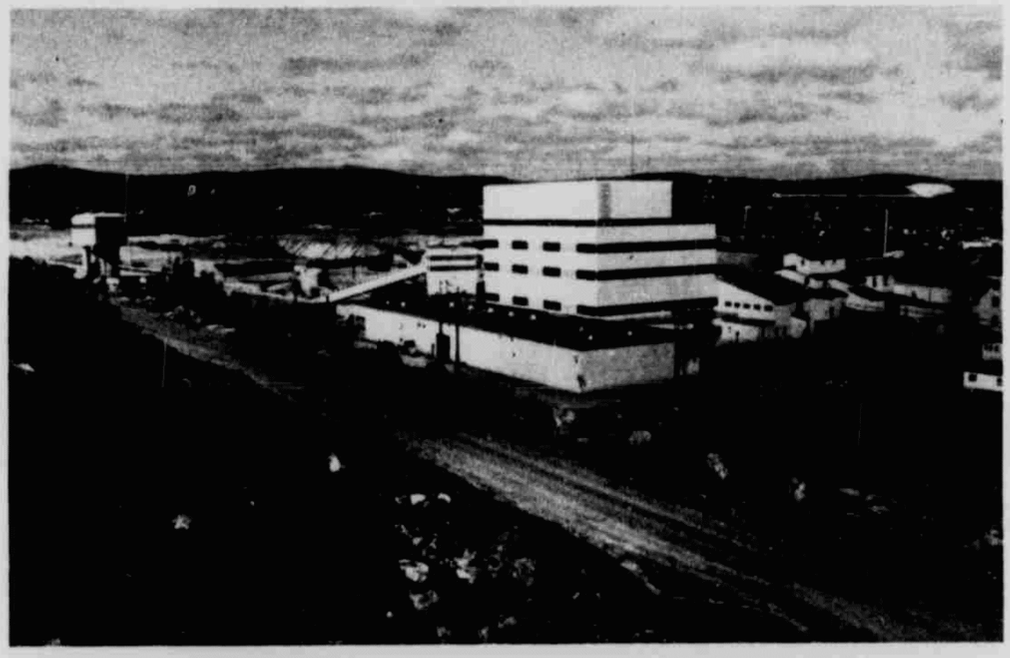
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ASBESTOS

VOLUME 59 **NOVEMBER 1977** **NUMBER 5**

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FOR & ABOUT—COMPANIES

CAPE PRODUCTS PROTECT

Asbestolux fire-resisting insulating boards are being used to protect one of the most cherished buildings of Britain's medieval heritage—Canterbury Cathedral. Above the ceiling vaults of the Cathedral are large voids which house great timber structures to support the main roofs. A system of fire-resistant partitions provides a series of fire stops throughout the roof voids to assist in fire control. The partitions are made from Asbestolux sheets which can provide up to four hours of fire resistance. Asbestolux is manufactured at Uxbridge by *Cape Boards and Panels Ltd.*, a member of the Cape Group of Companies. . . . *U.K. Marinite*, made by CBPL at Germiston, will safeguard travelers through Europe's new St. Gotthard motorway tunnel, the longest road tunnel in the world. The tunnel is nearly 17 kilometers long and runs deep beneath the Swiss Alps from Goschenen to Airolo. U.K. Marinite and sheet metal covering a sandwich filled with mineral wool will be fitted into each of the four huge main airshafts for fire resistance during emergencies. . . . An order worth over £70,000 was won by CBPL to supply *U.K. Marinite boards* to protect power cables from fire at one of Spain's first nuclear power stations. The station is located at Lemoniz, on the north coast of Spain, and is one of a series planned by the Spanish authorities.

TURNER & NEWALL VENTURES

Turner & Newall Ltd. has taken a 40% stake in *TBA Iberica SA*, a new Spanish company established with a capital of £408,000. The remainder of the equity is held by *Dunlop Iberica SA* which is owned half by *Dunlop International* and half by local Spanish interests. TBA Iberica will make the TBA range of Permanite compressed asbestos fiber jointings, which are the basis of automotive and industrial gaskets. . . . The capacity of *Turners Building Products (Emene)*, in Anambra State, Nigeria, is to be increased from 22,000 to 47,500 metric tons per year by the installation of a second machine for the manufacture of asbstos-cement sheets and the erection of a new asbestos fiber store. In Kaduna State, the plant of *Turners Building Products (Arewa) Ltd.* will be similarly extended by installing a new asbestos-cement sheeting machine. . . . The Drain Orifice Assembly, an energy-saving device and an alternative to the conventional steam trap, has won for its inventor, L. L. Guzick, the highest award granted under the

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Amosite from Cape

Natural length, natural strength, rapid filtration and resilience.
Characteristics of Amosite fibres that improve the handling of wet products and controlled curing in the whole range of asbestos cement and make them a natural for reinforced plastics and insulation materials.
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Suite 2950,
150 N. Wacker Drive,
Chicago, Illinois 60606
Tel: (312) 726 8515

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U.S. Federal Incentive Awards Program. The DOA is made in the United Kingdom and the United States by *Flexitallic Gaskets*, a T&N company.

JIM WALTER CUTS BACK

The Celotex Division of Jim Walter Corporation has discontinued some production operations at its 56-year-old *insulation fiberboard plant* at Marrero, Louisiana. About 370 of the plant's 670 employees were affected by the decision to stop making ceiling panels for the mobile home industry and some fiberboard sheathing. Cited as reasons for the cutback were costs to meet present and future environmental standards as well as rapidly-escalating energy, freight and other costs. Production will continue on residential ceiling tiles, lay-in panels and structural products.

SOUTHERN HOLDS OSHA SEMINAR

To assist distributors and customers to better understand OSHA regulations, *Southern Asbestos Company* is sponsoring seminar programs in a number of cities where facts can be discussed based on the company's own expertise. Southern Asbestos believes customers are better able to resolve potential problems when they know what is required. . . . Fiber emission tests are conducted regularly at Southern's plant to make certain its fabrics remain well within OSHA requirements. Recently an outside testing company was invited into the plant to conduct independent tests. The tests were tough and Southern happily reports its CLEANGARD fabrics scored better with the outside laboratory than with the company's own tests.

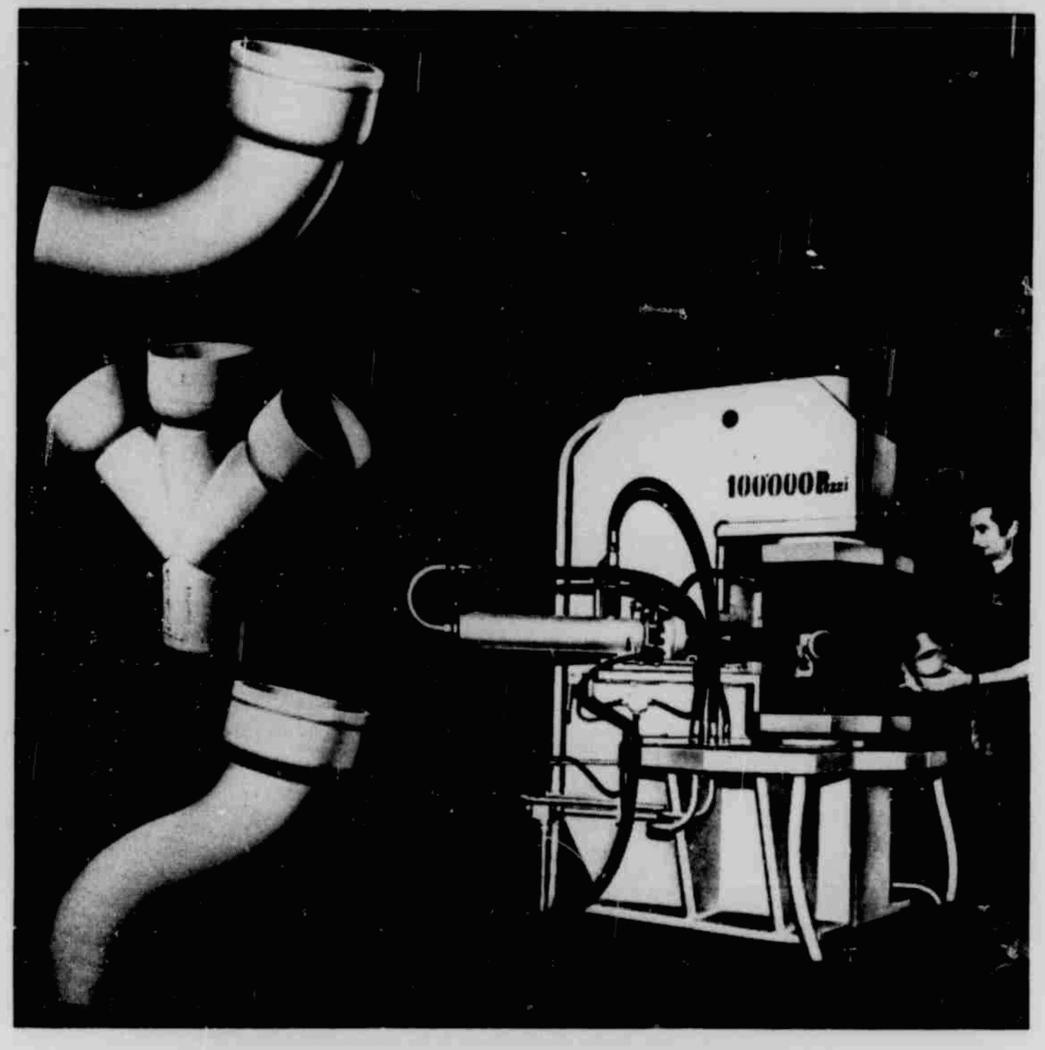
NOHL REPORTS INCREASE

Nohl Industries, Inc., Milwaukee, Wisconsin, reports an upsurge in its sales and production of asbestos materials which it attributes to the rising demands of manufacturers who use electrical and thermal insulation parts and components. Nohl has been making substantial investments in protective equipment and has developed effective procedures and methods for the conversion of asbestos materials. As a result, says the company, a number of manufacturers are contacting Nohl because it is less costly and easier to buy compiete parts than to invest in a conversion program to update an existing facility to meet Federal asbestos safety requirernents.

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Automatic INJECTION Plants

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PRODUCT GUIDE FROM GRACE

An 88-page chemical product guide was recently published by *W. R. Grace & Co.* to provide industrial customers with a listing of over 550 of Grace's major specialty and agricultural chemical products. The catalog is divided into four sections, i.e., index; products with descriptions; Grace trademarks with brief descriptions; and operating units with addresses and telephone numbers of where each product can be purchased. Products range from abrasive backings to zeolite catalysts and major specialties include industrial, packaging and plastics materials.

J-M INVESTMENT IN SINGAPORE

Johns-Manville Corporation is planning a two-phase, multi-million dollar development program in Singapore. It has invested about S$5-million in total assets in two subsidiaries: Johns-Manville Singapore, the manufacturing plant; and International Johns-Manville Corporation, the South East Asian regional office responsible for marketing activities. Phase I of the program involves the expenditure of S$3.7-million to increase production capacity of the plant at Jurong. The facility will diversify into products such as waterproofing membrane and acoustic ceilings made of materials other than fiber glass.

FERODO 5-YEAR PLAN

Ferodo Ltd. will undertake an exceptional investment effort in 1977 and 1978 as part of its five-year growth plan. The amount of money involved is about 220-million francs in each of the two years. The plan calls for modernization of Ferodo's equipment, expansion of friction gear output, broadening the range of motor components and other component products, accelerating its overseas establishment and contributing to the growth of its subsidiaries in France. The Ferodo Group is comprised of some 27 subsidiaries with operations in France, Spain, Italy, Germany, Belgium and Brazil.

R/M SELLS ROLL BUSINESS

Raybestos-Manhattan, Inc., has compieted the sale of its rubber-covered roll business to *Beloit Corporation*, a privately-held company in Beloit, Wisconsin. The sale was valued at $12-million, payable over ten years and carrying an interest rate of about 11%.

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STANDCO/STERLING GASKETS

The *Sterling Rubber and Gasket Division, Standco Industries, Inc.*, has published a product bulletin describing and giving performance data on its line of standard metallic and semi-metallic gaskets. Information on custom gaskets for special sealing problems is available from the Division. Sterling has designed, manufactured and marketed industrial gaskets and sealing materials for over 40 years. In addition, a full line of sheet packing, soft gaskets and custom-molded rubber products are offered.

LARGE A-C PIPE ORDER

The *South African Asbestos-Cement Manufacturers' Association* has announced that *Everite Ltd., Superocla Ltd. and Unipipe (Pty) Ltd.* have received a R5-million order from the Director of Water Affairs of South West Africa for 32 kilometers of 700mm-diameter and 54 kilometers of 600mm-diameter asbestos-cement pressure pipes to carry water to Oshakati in Ovamboland. The urgency of the contract is one of time; the pipes must be supplied within 4-5 months.

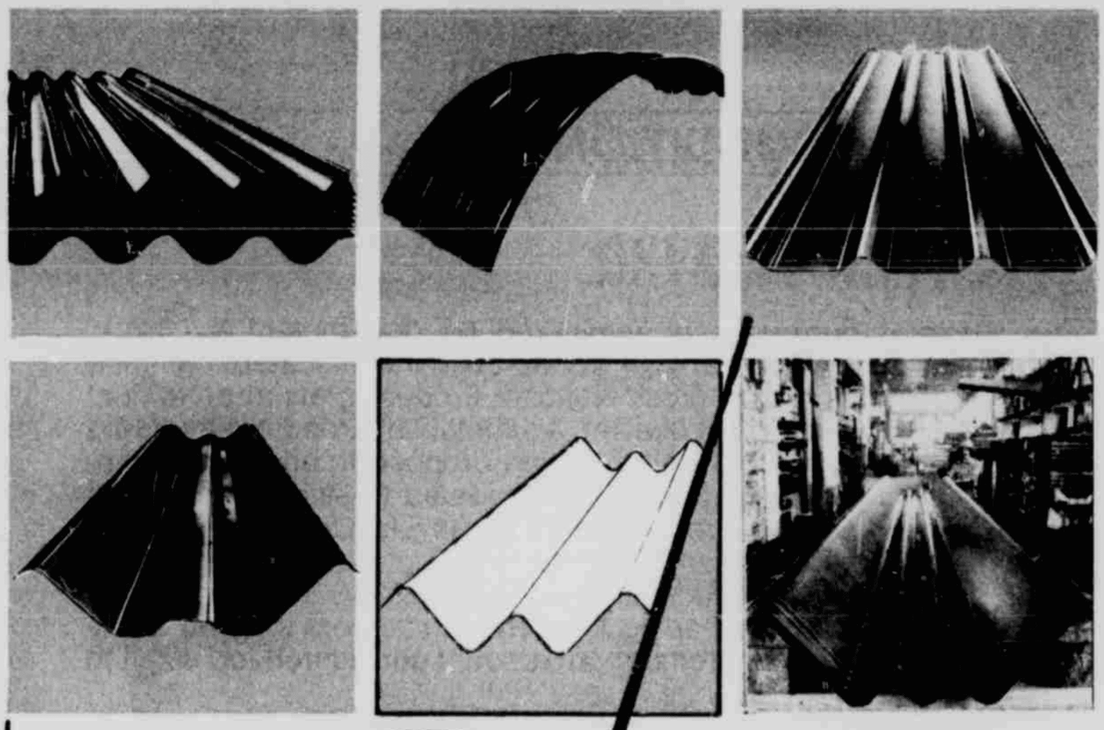
UNION CARBIDE TO MOVE

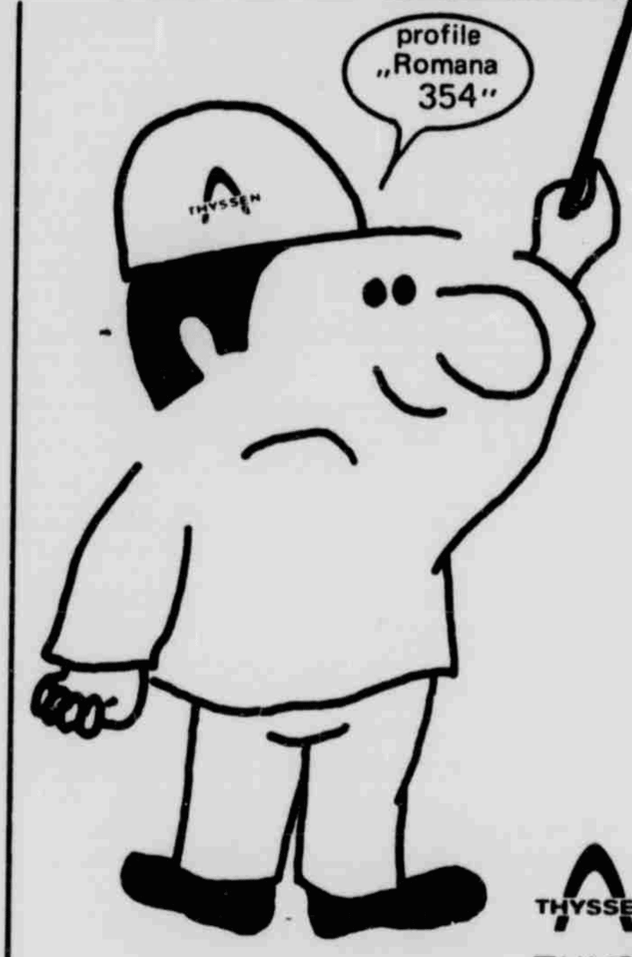
Union Carbide Corporation has announced plans to build a new corporate headquarters on a square-mile site in Danbury, Connecticut. Plans and drawings show a four-story building to accommodate 3,500 employees and 2,950 cars. The slightly curved structure, almost one-quarter of a mile long, will contain about 1.3-million square feet of space. Construction is scheduled for completion in 1981 or 1982.

TENNECO ACQUIRES POCLAIN

Tenneco Inc. has completed the acquisition of a 40% interest in *Poclain, S.A.*, a maker of hydraulic excavators, hoists and industrial cranes at LePlessis-Belleville, near Paris, France. Tenneco will also purchase through *J I Case Company*, a Tenneco company, the marketing subsidiaries of Poclain in West Germany, Belgium, Spain, Britain, Italy and Brazil.

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MARKET CONDITIONS

GENERAL BUSINESS

General business, as measured by government statistics, shows no signs of an early slump although the indicators continue to give mixed signals. Gross National Product grew at an annual rate of 3.8% in the third quarter, a substantial drop from the rapid growth rate of the first half. Inflation dropped to an adjusted annual rate of 5.1% but this rate is expected to increase again as food prices rise from present rather low levels. Orders for durable goods registered an anemic 0.6% rise in September but orders for non-defense capital goods jumped a surprising 6.3% in the same month. The Index of Leading Economic Indicators showed an increase of 0.3% in September, an amount considered too small to have any real significance.

The Federal Reserve Board continued its efforts to moderate the growth of the money supply, resulting in upward pressure on short-term interest rates. At the end of October 90-day Treasury Bills were yielding slightly over 6%, the prime rate at most banks stood at 7¾% and the discount rate had been raised to 6%. Long-term rates were substantially unchanged.

Businessmen and investors continued to view the future of the economy with considerable skepticism. Stock prices fell to the lowest level in two years during October. Business takeovers made more headlines as expansion-minded companies found it more advantageous to purchase going businesses than to invest in completely new plants and equipment. A plethora of such moves is having a negative effect on the capital spending so badly needed to sustain the current rather weak recovery. Unfortunately, most takeovers involve no additions to productive capacity which are so essential to the creation of permanent new jobs and as protection against shortages which may occur should the economy enter a period of rapid growth. However, so long as business must operate in the present atmosphere of uncertainty in regard to energy, taxes and governmental controls, there is every incentive to minimize the risks associated with growth. It is usually safer (and, recently, much cheaper) to purchase a successfully-operating facility than to build a new one from scratch.

The President has decided to delay his proposals for tax "reform" until the Congress has completed its work on the energy program. This dashes whatever hopes business may have had for early relief from some of the more repressive provisions of the

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OVER A QUARTER CENTURY OF EXPERIENCE

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present tax laws and further delays the inception of certain hoped-for measures to encourage capital formation. Regardless of protestations to the contrary, it is steadily becoming more apparent that the Administration intends to lean heavily on the public rather than the private sector for creation of jobs to alleviate the unemployment problem which, incidentally, shows no signs of disappearing.

Some economists who were quite bullish as late as September are hedging their forecasts and are now mildly bearish on the economy. It will be interesting to see whether they or the stock markets have been the better forecasters, considering the fact that the markets, in general, have been bearish for almost a full year.

HOUSING & CONSTRUCTION

SEPTEMBER 1977—Contracting for new construction in September was up 39% over a year ago, showing balanced strength in all three major categories of projects. The total for the month of $13.7-billion in contracts for future construction work resulted from gains over last September of 31% in nonresidential building, 44% in housing and 40% in heavy construction. A large increase in highway construction and a $2-billion nuclear power plant in Burke County, Georgia, were the sources of most of the gain in heavy construction. The seasonally-adjusted Dodge Index (1967 = 100) climbed to 279 in September, compared with 267 in August and 218 in July. Through the first three quarters of 1977 the Index has been running more than 50 points higher than the 1976 average of 194. . . . *JANUARY-SEPTEMBER 1977*—Total construction contract value reached $108.3-billion for the first nine months of 1977, 29% ahead of the same period a year earlier. The breakdown, by category, is $25.9-billion for nonresidential building (up 14%), $46.5-billion for residential building (up 41%) and $35.9-billion for nonbuilding construction (up 27%). The main reason behind the much-improved volume of 1977 construction is because this year we are seeing across-the-board improvement in all types of work while last year's strength was almost exclusively confined to housing.

—WE WELCOME A NEW ADVERTISER—

SYRO, LTD., Zurich, Switzerland; page 31

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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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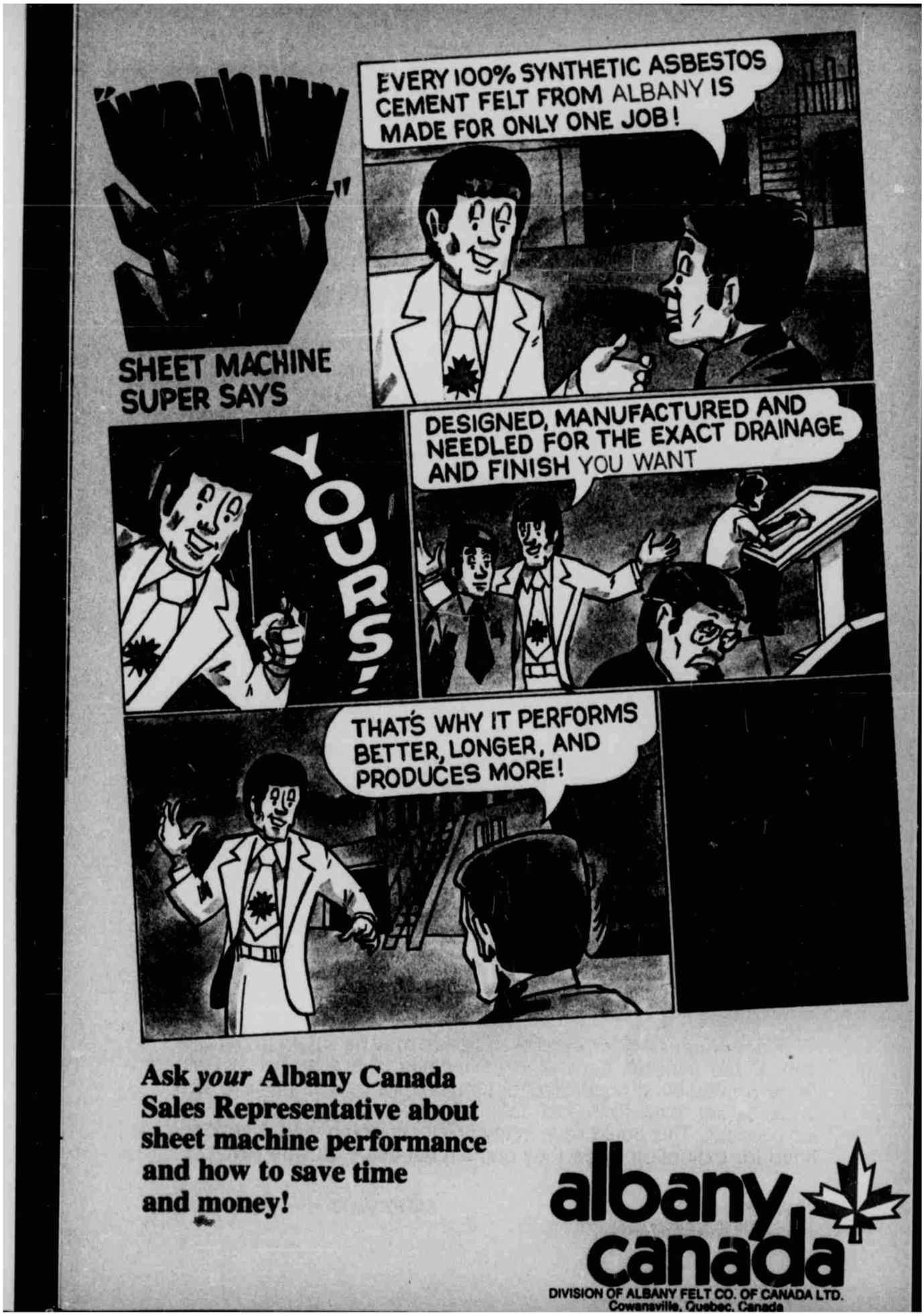
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U.S. ENVIRONMENTAL MATTERS

AIA/NA NEWS & NOTES

The 7th Annual Meeting and Conference of the Asbestos Information Association/North America was held in September in Arlington, Virginia, and was attended by over 80 members and guests from industry, government and the medical profession. Guest speakers included John A. McKinney, President and Chief Executive Officer of Johns-Manville Corporation; Michael J. Messel, President of the Quebec Asbestos Mining Association and of Lake Asbestos of Quebec Ltd., a subsidiary of Asarco Inc.; Hans Weill, M.D., Professor of Medicine at Tulane University and Medical Consultant to AIA/NA: Vincent DeCarlo, Ph.D., of the Environmental Protection Agency; and John O'Neill, Ph.D., and Charles McClure of the Occupational Safety and Health Administration. Messrs. McKinney and Messel spoke of the challenges to the Asbestos Industry and voiced firm opinions that the Industry can produce asbestos fiber and manufacture valuable and essential asbestos-containing products under health protective conditions. Dr. Weill discussed on-going research throughout the world into asbestos-health relationships and stressed the importance of scientific data in regulatory decisions. Concerning OSHA, although no decision has been reached the Administration appears to be leaning toward consolidation of hearings on the proposed changes to the Asbestos Manufacturing Standard and the yet-to-be-proposed Asbestos Construction Standard. Because of unfinished contracts and those which may still be issued, it seems likely that several months will have passed before any hearing is scheduled. It was also stated that many in OSHA believe asbestos can be used safely and, at the same time, in strict compliance with realistic regulations. Mr. DeCarlo reviewed various EPA activities involving asbestos, i.e., programs concerned with the carcinogenic and mutagenic potential of asbestos, sprayed-on materials, rock quarries, taconite mining, waste disposal, field testing of air emission controls at asbestos manufacturing waste piles, the Agency's drinking water program and the Toxic Substances Control Act. . . . At the Annual Meeting, *the following officers were elected to serve for the ensuing year:* President—Thomas A. Dougherty of CertainTeed Corporation; Vice Presidents—John H. Marsh of Raybestos-Manhattan, Inc., and Dimitry Poutiatine of Johns-Manville Corporation; and Secretary/Treasurer—Robert H. Mereness, who is Executive Director of the Association. Those named to the Executive Committee were John L. Rainey of

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Amatex Corporation; Harrison B. Rhodes of Union Carbide Corporation; Edward R. Zacharias of Molded Materials Company; and Kurt Schwarz of Supradur Manufacturing Company. . . . As of September 1, 1977, *AIA/NA has relocated its headquarters* from Washington, D. C., to 1745 Jefferson Davis Highway, Crystal Square 4, Suite 509, Arlington, Virginia 22202.

A/C PIPE REPORT

Asbestos dust created during cutting and machining operations in the field using lathes, hole cutters, hammers, chisels and rasps indicate peak exposure substantially less than the current OSHA ceiling of ten fibers per cubic centimeter and the proposed five f/cc, according to a recent report of the *Association of Asbestos-Cement Pipe Producers.* The report adds that the use of abrasive disc saws on a-c sewer and pressure pipes without modification or a dust-collecting system would appear to be in violation of current OSHA standards and, therefore, such saws should be modified or equipped with dust collectors—or eliminated from use.

U.S. NAVY TO TEST AT SHIPYARDS

The U.S. Navy will screen 1,500 to 3,000 workers at Naval Shipyards at seven locations for asbestos-related ailments. The program will be similar to that conducted last June among workers with a history of asbestos exposure at the Naval Shipyard in Long Beach, California. Workers to be screened are based at Shipyards in Portsmouth, Virginia; Philadelphia, Pennsylvania; Pearl Harbor; Vallejo, California; Kittery, Maine; Charleston, South Carolina; and Bremerton, Washington.

SIZE VS. CONTENT

Cancer-causing potential of asbestos may be linked to particle size of the mineral, according to findings of a scientist at *Ohio State University.* If confirmed, optimum limits of safe particle size could be set, then size of particles might be controlled in the mining process. This could save many products which now seem destined for extinction since they contain asbestos. [Inside R&D]

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

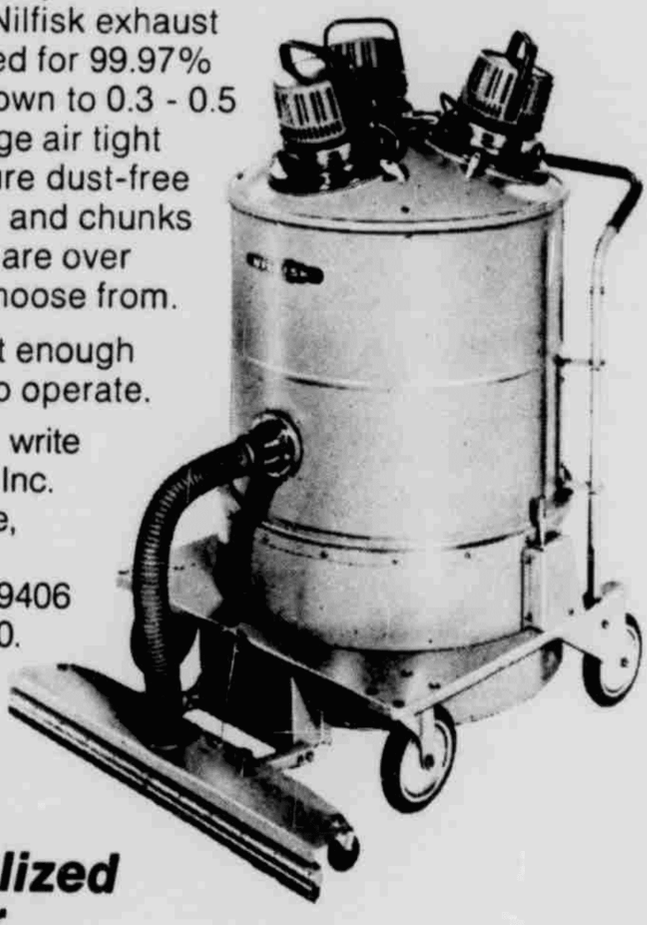
Clean air standards being what they are, you may not be meeting them even with a central dust collector. And this year, standards are being tightened even further.

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

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

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

For more information, write to Nilfisk of America, Inc.
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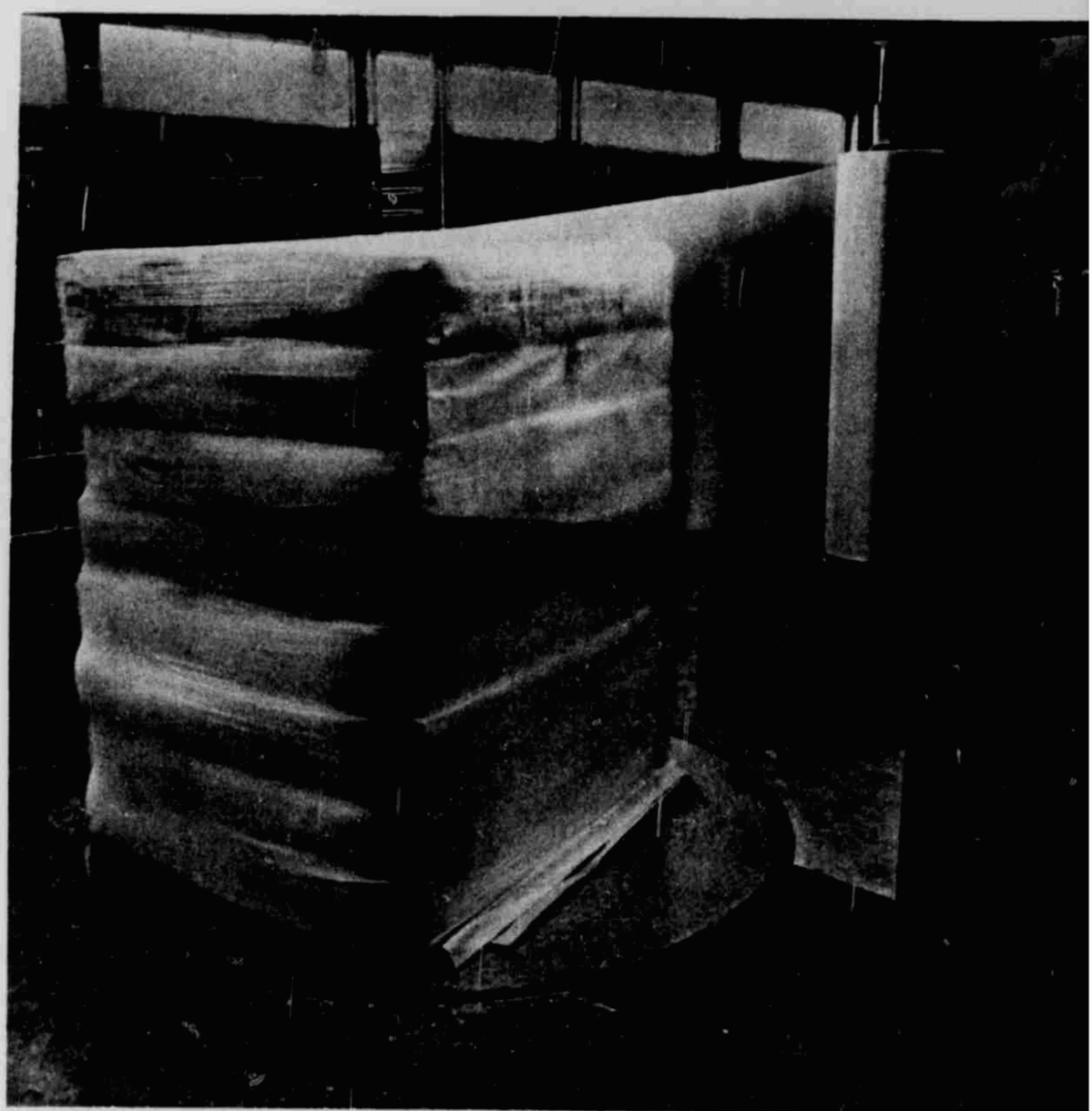


NILFISK GA 73.

The decentralized dust collector.

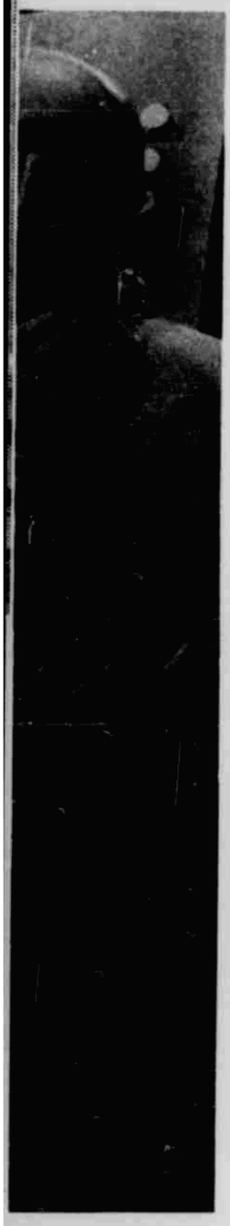
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Stretch protects against and related



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wrapping broken bags dust problems.



Lake Asbestos now supplies two-ton units of asbestos fiber consisting of forty 100-lb. bags completely stretch wrapped in a tough polyethylene film. This protective wrapping virtually eliminates bag damage:

- During car loading and unloading
- During transit
- In storage and in-plant handling

Stretch wrapping is your best assurance that shipments will arrive damage and dust free. It also reduces unloading expense and helps control dust problems in your operation. It's available for a very nominal charge.

Stretch wrapping is evidence of Lake Asbestos' concern for its customers and the environment. For details contact Lake Asbestos of Quebec, Ltd., Black Lake, Quebec, Canada. Tel.: 418-423-4221. Or call a representative near you.

LAKE ASBESTOS

A subsidiary of **ASARCO**

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PRODUCTION—IMPORTS—EXPORTS

WOOD'S REEF PRODUCTION

Chrysotile Corporation of Australia Pty. Ltd. produced 65,911.5 metric tons of asbestos during the *Year Ended June 1977* at the Wood's Reef asbestos mine at Barraba, New South Wales. Total output since the mining/milling complex began operating in *February 1972 through June 1977* amounted to 245,167.5 tons.

CANADIAN FIBER SHIPMENTS

Primary Canadian Producers' shipments of asbestos (including tonnage for own use) amounted to 155,260 short tons in *August 1977* compared with 139,268 tons for the eighth month of 1976. The cumulative total for *January-August 1977* was 1,089,990 tons: 878,070 tons from Quebec plants and 211,920 tons from plants in Newfoundland, Ontario, British Columbia and the Yukon. The total for January-August 1976 was 1,083,511 tons: 885,089 tons from plants in Quebec and 198,422 tons from plants in the other four Provinces. [Statistics Canada, Ottawa]

CANADIAN PRODUCT & FIBER IMPORTS

Imports of various asbestos-containing products for the *First Half of 1977* were valued as follows: vinyl-asbestos floor and wall tiles—$30,000 (24,922 square yards); asbestos cloth, dryer felts and sheets—$2,267,000; asbestos packing—$948,000 (726,609 pounds); asbestos brake linings—$2,291,000; asbestos clutch facings—$571,000; asbestos-cement shingles and siding—$35,000; asbestos-cement boards and sheets—$235,000; other asbestos building materials—$3,055,000; other asbestos basic products—$1,733,000. . . . Imports of unmanufactured asbestos totaled 2,314 tons valued at $692,000: 1,032 tons from the Republic of South Africa valued at $578,000 and 1,282 tons from the United States valued at $114,000. [Statistics Canada, Ottawa]

CYPRUS FIBER PRODUCTION

Production of asbestos in Cyprus for the *First Half of 1977* totaled 18,244 short tons valued at £2,188,925 compared with 11,184 tons valued at £1,061,030 for the first six months of 1976 and 14,462 tons valued at £1,054,610 for the comparable period in 1975. [Mines Department, Nicosia]

NEXT ISSUE — 1977 IN REVIEW

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

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

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BAZZI

IMPORTS INTO THE UNITED STATES

From: U.S. Bureau of the Census

UNMANUFACTURED ASBESTOS: **JULY 1977**

Amosite, Canada	s.tons	1	$ 570
Republic of South Africa	s.tons	232	113,580
Crocidolite (Blue), South Africa	s.tons	691	379,965
Chrysotile Crudes, Canada	s.tons	49	9,252
Chrysotile Spinning Fibers, Canada	s.tons	1,188	1,033,442
USSR	s.tons	1,085	221,085
Chrysotile, Other, Canada	s.tons	40,276	9,245,742
Mexico	s.tons	2	513
USSR	s.tons	26	7,828
Other Crudes & Fibers, Canada	s.tons	1,263	96,980
South Africa	s.tons	20	13,842
USSR	s.tons	64	24,074
		44,897	$11,146,873

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	875,442	$ 1,298,269
A-C pipes, tubes & fittings	Lb	2,503,895	264,327
Other asbestos-cement articles	Lb	2,143,674	416,236
Other asbestos articles		..	431,899
			$ 2,410,731

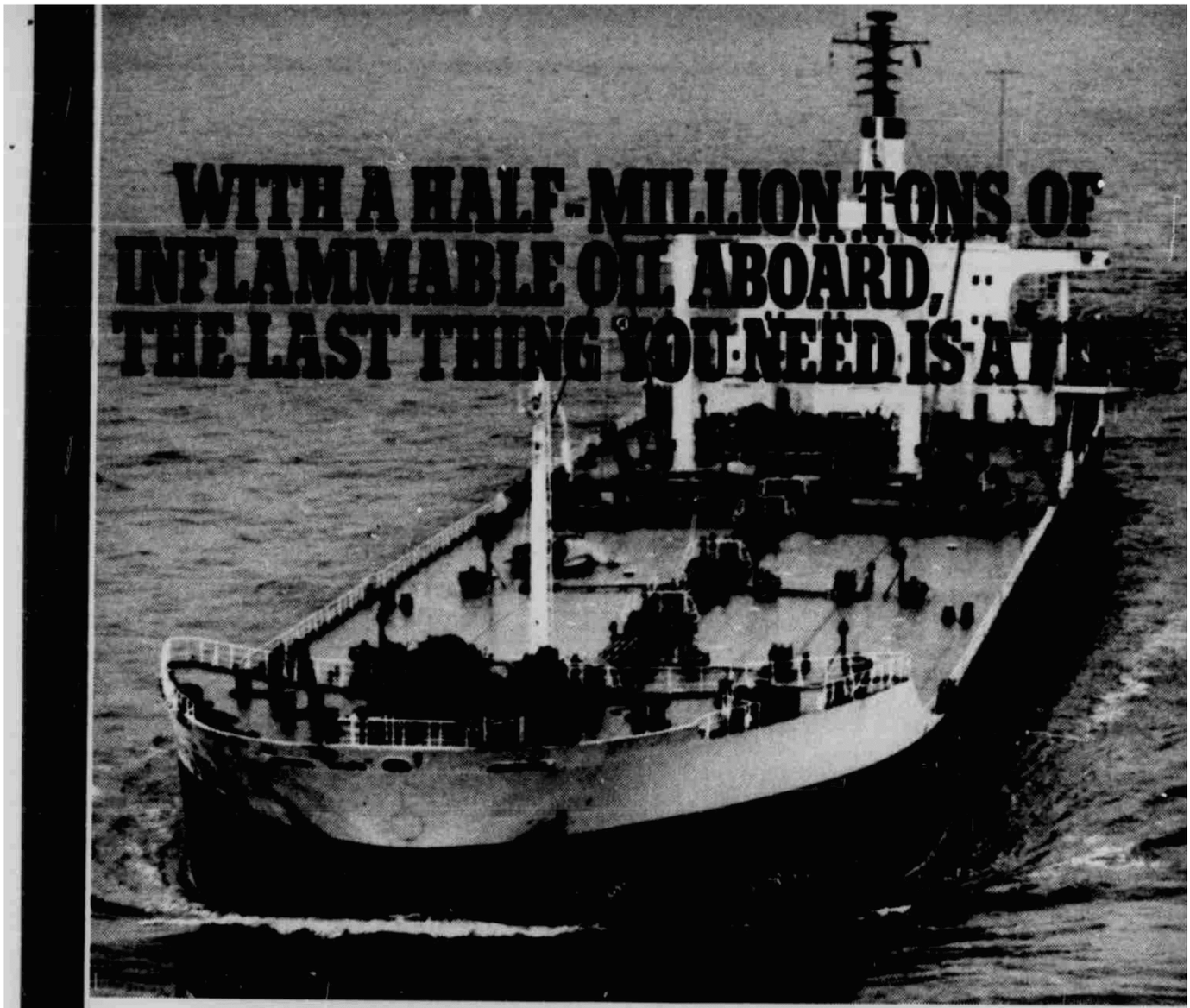
UNMANUFACTURED ASBESTOS: **JANUARY-JULY 1977**

Amosite, Canada	s.tons	1	$ 570
South Africa	s.tons	404	201,854
Crocidolite (Blue), South Africa	s.tons	7,676	3,148,709
Chrysotile Crudes, Canada	s.tons	134	65,576
Rhodesia	s.tons	2,451	2,368,050
South Africa	s.tons	1,926	1,114,476
Chrysotile Spinning Fibers, Canada	s.tons	4,379	4,085,269
South Africa	s.tons	57	38,194
USSR	s.tons	2,190	443,348
Chrysotile, Other, Canada	s.tons	316,935	71,982,950
Mexico	s.tons	14	3,215
South Africa	s.tons	20	13,885
USSR	s.tons	143	42,656
Other Crudes & Fibers, Canada	s.tons	7,210	1,154,016
Mexico	s.tons	220	133,000
South Africa	s.tons	1,626	791,785
Sweden	s.tons	1	495
USSR	s.tons	3,802	674,707
		349,189	$86,262,755

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos yarn, cloth, tape, etc.	Lb	6,473,533	$ 9,164,436
A-C pipes, tubes & fittings	Lb	10,301,817	1,057,379
Other asbestos-cement articles	Lb	20,417,712	3,761,665
Other asbestos articles		..	3,599,585
			$17,583,065

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

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Other representatives world-wide.

EXPORTS FROM THE UNITED STATES

From: U.S. Bureau of the Census

UNMANUFACTURED ASBESTOS:		JULY 1977	
Fibers not further processed than beaten, washed or graded to length	s.tons	1,316	$ 588,278
Waste and refuse	s.tons	1,609	427,670
		2,925	$ 1,015,948
MANUFACTURED ASBESTOS PRODUCTS:			
A-C shingles & clapboard	Lb	836,166	$ 148,034
Other a-c fiber-cement articles	Lb	7,515,587	2,088,410
Gaskets	Lb	25,637	95,735
Packing	Lb	406,839	1,010,153
Heat or sound insulation		..	558,150
Textiles & yarns	Lb	1,051,743	730,302
Protective clothing		..	73,199
Mfrs. other than friction materials		..	1,105,366
Clutch facings & linings for auto. use	No	64,968	184,363
Other clutch facings & linings	No	4,417	18,661
Brake linings for automotive use	Lb	684,721	619,164
Other brake linings	Lb	198,764	326,422
			$ 6,957,959

UNMANUFACTURED ASBESTOS:		JANUARY-JULY 1977	
Fibers not further processed than beaten, washed or graded to length	s.tons	9,626	$ 4,227,738
Waste and refuse	s.tons	12,064	2,680,005
		21,690	$ 6,907,743
MANUFACTURED ASBESTOS PRODUCTS:			
A-C shingles & clapboard	Lb	4,978,636	$ 846,078
Other a-c fiber-cement articles	Lb	31,345,958	7,806,281
Gaskets	Lb	574,661	1,237,435
Packing	Lb	3,118,383	7,216,690
Heat or sound insulation		..	2,760,076
Textiles & yarns	Lb	12,472,377	7,129,390
Protective clothing		..	766,806
Mfrs. other than friction materials		..	10,204,941
Clutch facings & linings for auto. use	No	308,274	738,320
Other clutch facings & linings	No	195,980	221,413
Brake linings for automotive use	Lb	6,314,258	5,815,518
Other brake linings	Lb	1,234,457	1,745,590
			$46,488,538

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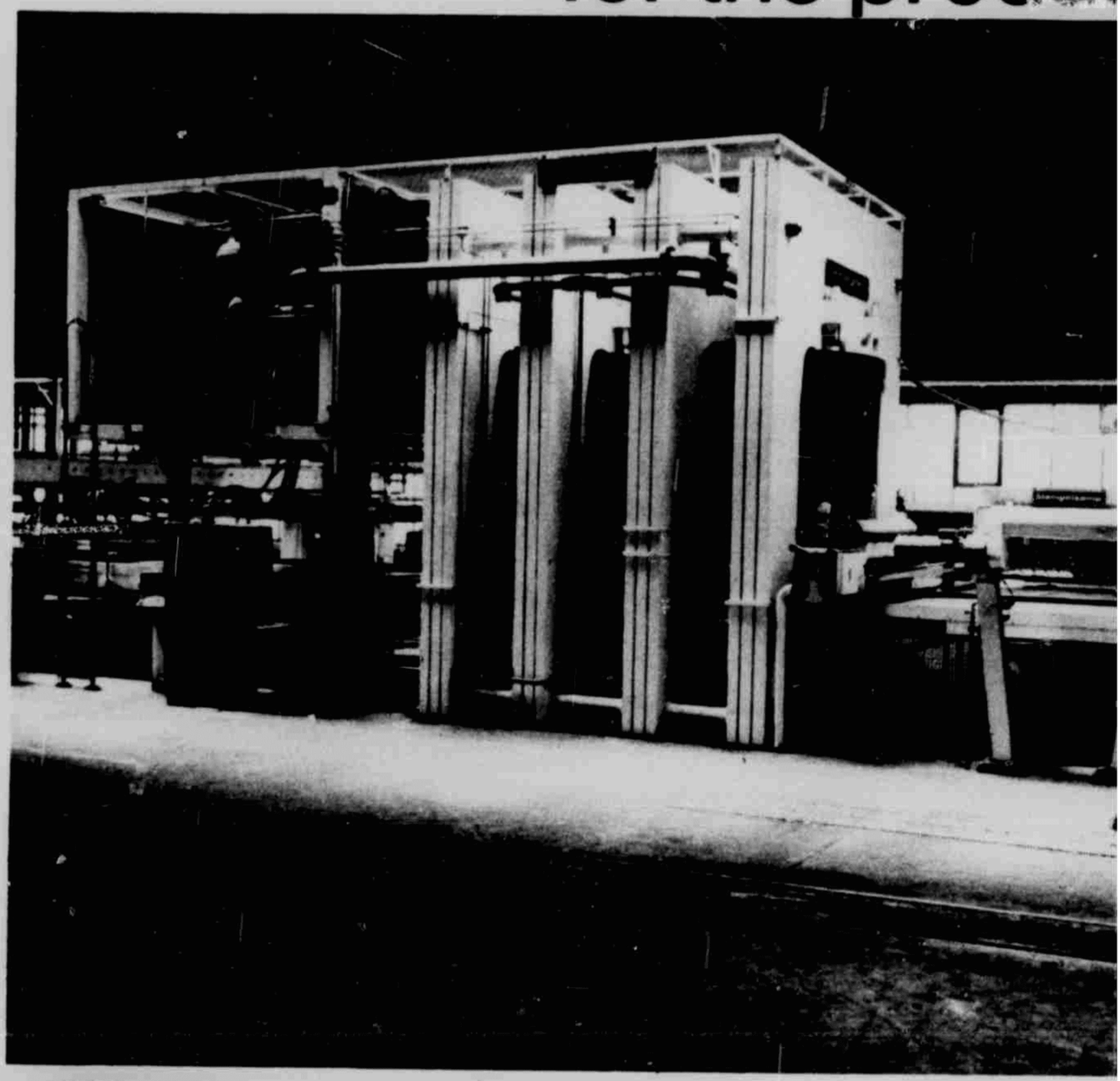
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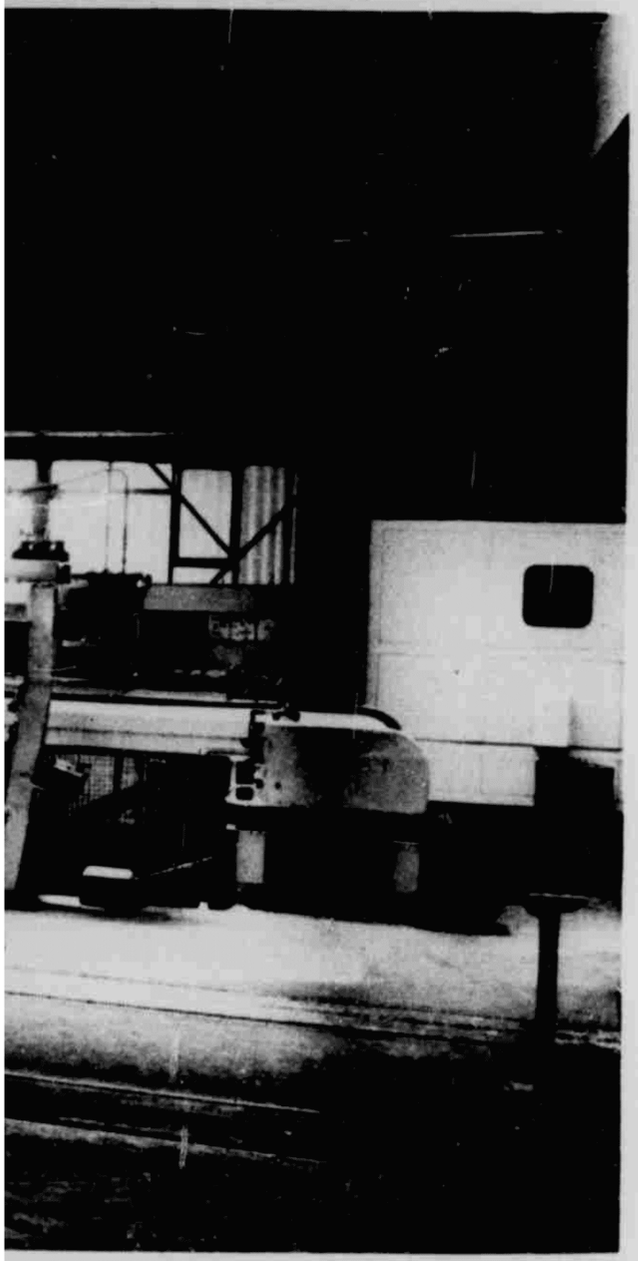
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asbestos-cement pipes

ic press lines ction of:



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Fully automatic press lines for the production of building elements

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EXPORTS FROM CANADA

From: Statistics Canada

JULY 1977
Short Tons

UNMANUFACTURED ASBESTOS:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp 6-9
Western Europe	..	567	19,898	14,111
Eastern Europe	..	238	2,302	400
Middle East	..	..	..	246
Africa	..	..	2,500	500
Asia	..	397	12,254	7,623
Oceania	..	..	6,151	1,087
So. & Cen. America & Antilles	..	315	7,634	3,014
United States	..	871	14,632	31,027
	..	2,388	65,371	58,008

The total amount of unmanufactured asbestos exported in *July 1977* was 125,767 short tons, valued at $46,314,000.

MANUFACTURED ASBESTOS PRODUCTS:

Asbestos cloth, dryer felts & sheets	$ 65,000
Asbestos brake linings & facings	368,000
Asbestos-Cement building materials	850,000
Other basic asbestos products	392,000
	$1,675,000

JANUARY-JULY 1977

UNMANUFACTURED ASBESTOS:	Crude	Milled Gp 3	Milled Gp 4&5	Shorts Gp-6-9
Western Europe	..	6,515	167,770	105,132
Eastern Europe	..	1,565	20,039	3,282
Middle East	..	198	13,670	2,091
Africa	..	..	10,176	3,950
Asia	..	1,851	65,426	81,172
Oceania	..	5	37,765	6,258
So. & Cen. America & Antilles	..	925	56,031	20,184
United States	..	5,051	81,305	245,047
	..	16,110	452,182	467,116

The total amount of unmanufactured asbestos exported in *January-July 1977* was 935,408 short tons, valued at $323,511,000.

MANUFACTURED ASBESTOS PRODUCTS:

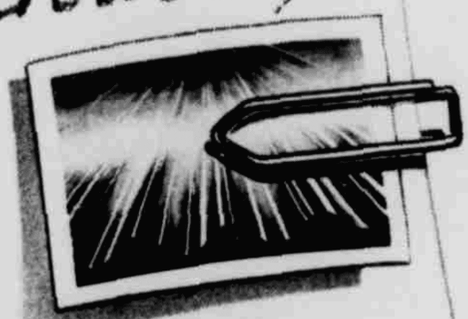
Asbestos cloth, dryer felts & sheets	$ 642,000
Asbestos brake linings & facings	1,878,000
Asbestos-Cement building materials	7,016,000
Other basic asbestos products	2,913,000
	$12,449,000

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For Attention

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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 July 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	530.00— 700.00
No. 5—Paper Fiber	315.00— 400.00
No. 6—Paper and Shingle Fiber	245.00— 275.00
No. 7—Shorts	90.00— 200.00

CASSIAR *Per ton of 2000 Lbs., F.O.B. North Vancouver, B.C.*
As of July 1, 1977 *Canadian Dollars*

	Cassiar Mine	
C-1	—No. 1 Crude	$3621.00
AAA	—Nonferrous Spinning Fiber/Canadian Group 3	2000.00
AA	—Nonferrous Spinning Fiber/Canadian Group 3	1600.00
A	—Nonferrous Spinning Fiber/Canadian Group 3	1050.00
AC	—Nonferrous Spinning Fiber/Canadian Group 3	913.00
AK	—Asbestos Cement Fiber/Canadian Group 4	770.00
AS	—Asbestos Cement Fiber/Canadian Group 4	670.00
AX	—Asbestos Cement Fiber/Canadian Group 4	580.00
AY	—Asbestos Cement Fiber/Canadian Group 5	420.00
AZ	—Asbestos Cement Fiber/Canadian Group 6	320.00
	Clinton Mine	
CP	—Asbestos Cement Fiber/Canadian Group 4	730.00
CT	—Asbestos Cement Fiber/Canadian Group 4	650.00
CY	—Asbestos Cement Fiber/Canadian Group 5	420.00
CZ	—Asbestos Cement Fiber/Canadian Group 6	320.00

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 STOCK QUOTATIONS

OCTOBER 18, 1977

Abitibi Asbestos	C$.56
Advocate Mines	C$3.30
Armstrong Cork	17⅞
Armst. Cork (pfd 3.75)	50
Asarco	15½
Asbestos Corporation	C$23.125
Bendix	36⅝
Bendix (pfd 3)	78
Carlisle	21¼
Cassiar Asbestos	C$8.75
CertainTeed	24½
Charter Conso.	pence 155
Colt Industries	44⅜
Colt Ind. (pfd 1.60)	24
Colt Ind. (pfd 4.25)	64½
Conwest	C$3.90
Flintkote	18
F-kote (pfd-B 2.25)	30½
GAF Corporation	10⅛
GAF (pfd 1.20)	15⅞
Gulf & Western	11½
G&W (warrants)	9/128
G&W (pfd 2.50)	31¼
G&W (pfd 3.87)	58
G&W (pfd 5.75)	72
IC Industries	21⅜
IC Ind (pfd 3.50)	43¾
Jim Walter Corporation	28⅛
Jim Walter (pfd 1)	11⅝
Jim Walter (pfd 1.60)	30¾
Johns-Manville	32⅞
Kennecott Copper	23
Lear Siegler	14
Lear Siegler (pfd 2.25)	37¼
Maremont	17⅞
McAdam Mining	C$.25
National Gypsum	16⅛
Pathfinder	C$.32
Raybestos-Manhattan	27¼
Rio Algom	C$24.50
Supradur	Bid 5⅞; Asked 6⅜
Union Carbide	42¼
Woodsreef Minerals	C$.65

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INTERNATIONAL MINING SCENE

QUEBEC WANTS ASBESTOS CORPORATION

Quebec Premier Rene Levesque confirmed on October 21 that the *Provincial Government* will take all necessary steps to become the majority owner of *Asbestos Corporation Ltd.* and if unable to do so would have to make "a political decision on how we would have control anyway." *General Dynamics Corporation*, which owns 54.6% of Asbestos Corporation, terms the mining company "a very valuable member of the General Dynamics family" and says it has no desire to sell its interest. Trading in shares of Asbestos Corporation was halted on Canadian stock exchanges shortly after the market opened on October 21, after the stock jumped $2.50 to $26.00. Provincial Finance Minister Jacques Parizeau said Quebec will attempt to negotiate acquisition of all the General Dynamics block but if agreement is reached to acquire only a portion of that interest, the Government will proceed and bid for all public shares. . . . Mr. Levesque and Yves Berube, the Quebec Minister for Natural Resources, Lands and Forests, outlined the Government's *proposed program for the asbestos industry* later in the day at Thetford Mines. The program calls for formation of a Government-owned corporation to hold the Asbestos Corporation shares and to establish a presence at all levels of the industry. The new entity would invest alone, or jointly with other asbestos producers, in new mines and in the production of finished products. [The Wall Street Journal]

QAMA VIEWS QUEBEC ASBESTOS POLICY

Following the announcement by the Government of Quebec of its new asbestos policy, the President of the Quebec Asbestos Mining Association, M. J. Messel, made the following statement.

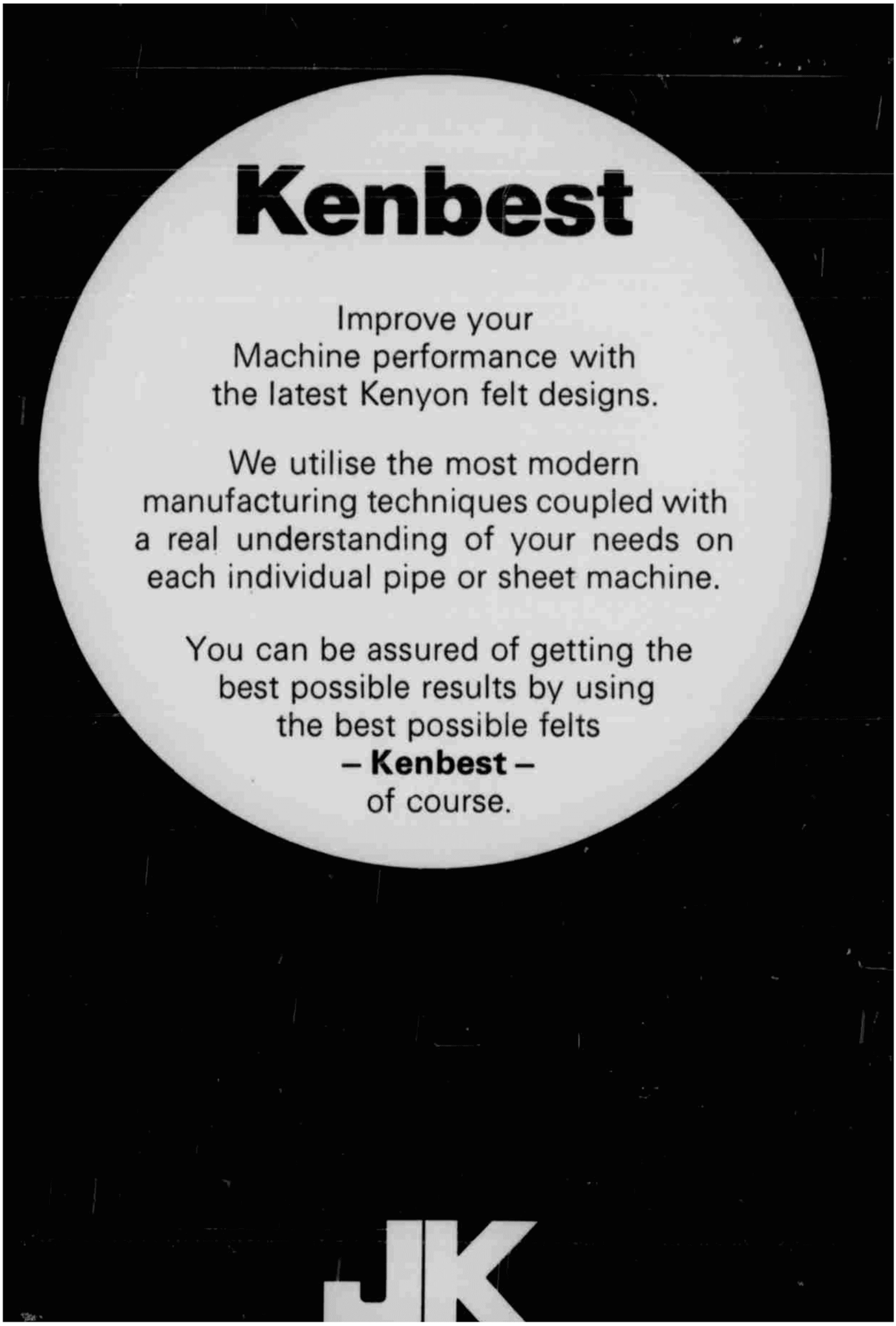
"No one questions the right of the Quebec Government to adopt policies of its choice in respect of economic development and particularly in the field of natural resources, provided that in the process the fundamental rights of others are respected.

"The proposal of the Government to acquire a controlling interest in Asbestos Corporation Ltd. does not appear founded on an objective evaluation of the best means to ensure the development of the asbestos industry for the greater benefit of all Quebecers.

"The asbestos mining producers of Quebec query the advisability of such a decision, costly for the Quebec taxpayers, generating uncertainty and demoralizing private enterprise. In addition, this move is not conducive to the creation of new jobs nor to the improvement of productivity and is not likely to contribute to the betterment of Quebec's economy.

"The asbestos mining companies will not remain indifferent to the fate

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imposed on one of them by the Government and along with financial and business circles, will be following very closely the way in which the Government proceeds to implement its plan and ensure conditions both humanly and financially fair and equitable.

"On the other hand, the Quebec asbestos mining producers welcome the decision of the Government to set up proper means of consultation and cooperation between the State and the Industry so as to maximize the results of the efforts of all concerned and thereby foster optimum development of manufacturing and use of asbestos products in Quebec, while at the same time promoting additional industrial and technological research and helping resolve problems of health and hygiene at work.

"For many years the asbestos mining companies were alone in giving tangible interest and concern to such matters, as is demonstrated by the impressive work accomplished by the Institute of Occupational and Environmental Health, founded by QAMA in 1966, by the investment of millions of dollars to improve working conditions and the environment, by the commissioning of the first in-depth study on the possibilities of manufacturing finished asbestos products in Quebec and by the research programs carried out under the auspices of the Association.

"The asbestos mining industry feels that in these areas the initiative of the Government offers new perspectives towards the orderly evolution of relations between State and Industry.

"Such cooperation could well produce most constructive and fruitful results, provided, however, that it is founded on equality of partnership, on mutual trust and good faith and provided also that the State does not unduly take advantage of its position to change the ground rules between the partners.

"The Quebec Government can count on the cooperation of the Quebec asbestos mining producers in the pursuit of realistic and financially viable objectives and in the search for and the activation of programs of action towards promoting the socio-economic development of Quebec."

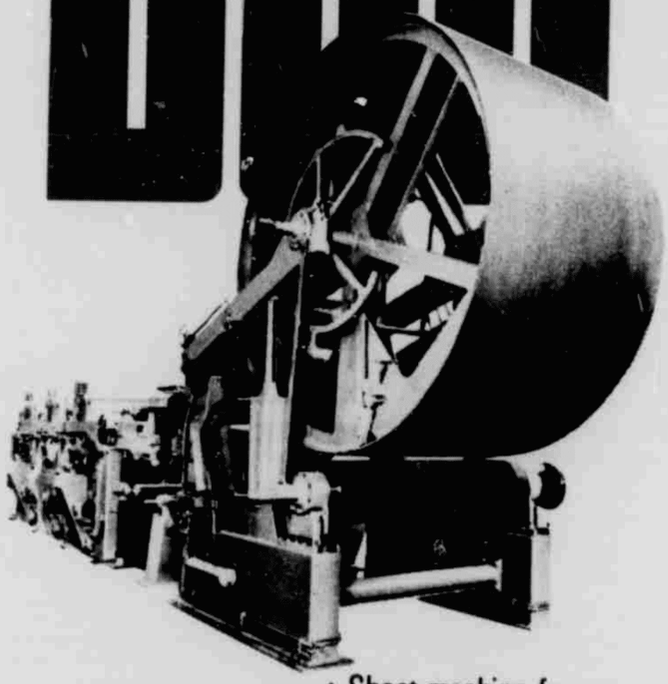
MIDLOTHIAN MINE MAY BE BOUGHT

Woodsreef Minerals Ltd. and *Labrador Mining and Exploration Company*, an associate of Hollinger Mines Ltd., are jointly studying the possibility of acquiring the inactive asbestos mine of United Asbestos Inc., located at Midlothian in Northern Ontario. Laboratory and other tests on material from the property are currently being conducted at the Woodsreef asbestos operation in Barraba, Australia. . . . Asbestos sales for *Woodsreef Mines Ltd.*, the Australian facility, will approximate 63,000 metric tons in 1977, about the same as in 1976. Fiber sales in 1978 are expected to reach between 90,000 and 100,000 tons. In 1976 Woodsreef Mines renegotiated a long-term contract which reduced annual fiber sales to customers in Japan from 40,000 tons to 25,000 tons. However, since then the company has regained outlets in Southeast Asia, notably in South Korea, Taiwan and Singapore. Other markets include Mexico, Poland and East Germany. Based on known reserves and recent production rates, the mine at Barraba has an indicated operating life of 12 years.

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Asbestos Cement Machines

Bell



▲Sheet machine for 9 m long sheets

Bell Engineering Works Ltd., a member of the Sulzer Group, designs, manufactures, assembles and puts into operation complete asbestos cement sheet and pipe production lines as well as individual machines, such as:

Slurry preparation equipment
Sheet machines
Stamping machines for cutting slates
Presses for high density sheets
Stackers and Corrugators
Stack transport systems
Pipe machines
Pipe curing and rounding systems
Pipe finishing machines
Waterring vacuum pumps
Asbestos board machines

SULZER
Group Member

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NEW LABOR CONTRACT FOR VAG

Workers at the asbestos mine of *Vermont Asbestos Group, Inc.*, approved a contract on October 5, putting an end to their threat of a strike. The walkout, if it had occurred, would have been an unprecedented move since the union would have struck its own company. VAG is considered the largest employe-owned operation in the United States. The new contract contains a 9% increase in wages and fringe benefits involving coffee breaks, paid sick days and qualifications for retirement benefits, at an estimated cost to the company of $250,000. A more costly contract would have jeopardized VAG's expansion plans, primarily the $700,000 expense planned to construct the new wallboard plant at Morrisville, Vermont. . . . A group of about 30 investors in August had offered to purchase the mine for $4.8-million, but the proposal has since been terminated. However, strong sentiment apparently remains among the workers for the sale of the mine. If the plant were sold, the miners, who paid $50.00 for each of 2,000 shares in 1975, could receive about $2,500 per share.

HAVELOCK RUNNING LOW?

The asbestos reserves of Swaziland, currently being mined by *Havelock Asbestos Mines (Swaziland) Ltd.*, will be exhausted by 1988 unless negotiations to acquire adjacent orebodies are successful. The mining operation is 60% owned by *Turner & Newall Ltd.* and 40% owned by the *Swazi Nation.* . . . During its latest fiscal year the Havelock Mine realized a record gross profit of E17-million, compared with E12-million in 1976. The United Kingdom, Havelock's biggest customer, received about 54% of the 38,600 metric tons (four standard grades) of asbestos produced in the latest year. The entire quantity milled was 882,700 tons. . . . In addition to the E83,000 already spent to enlarge and modernize the short-fiber recovery unit at the mill, plans are well underway for sinking an incline shaft, at a cost of about E500,000, to mine out the remainder of the ore at the now completely-underground operation. [The Times of Swaziland]

KOEGAS GETS NEW DRYER

A new rotary dryer is being installed at the mill of the Koegas Mine, operated by *Cape Blue Mines (Pty) Ltd.*, a principal subsidiary company of Cape Industries Ltd. The dryer is 49 feet long and 11 feet in diameter. Heat is provided by a coal-fired furnace. Up to 35 metric tons of fines per hour will be handled by the new plant.

NEW ROUTE FOR CASSIAR

Cassiar Asbestos Corporation Ltd. has called for tenders from several large West Coast shipping and barging firms to move 70,000 tons of asbestos per year to Vancouver from Stewart, British Columbia. Cassiar is investigating the all-Canada route, believing it will be less expensive than its current shipping method, i.e., through Skagway, Alaska. [The Globe & Mail]

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MEN ON THE MOVE

ASBESTOS INFORMATION COMMITTEE (U.K.)

W. P. Howard, of Turner & Newall Ltd., has accepted the office of Deputy Chairman of AIC, upon the retirement of *M. F. Howe. H. D. S. Hardie* continues as Chairman and *A. Cooke* will serve as Secretary on a temporary basis.

ASBESTOSIS RESEARCH COUNCIL (U.K.)

R. Sykes, of TBA Industrial Products Ltd., has assumed the responsibilities of Secretary of ARC, following the retirement of *Dr. S. Holmes. Dr. R. Gaze* continues as Chairman and *K. J. Verrill* remains as Chairman of the Environmental Control Committee.

CAPE INDUSTRIES LTD.

T. E. Nash has been named Group Health and Safety Consultant, taking over the former duties of *A. A. Cross*. Apart from the question of asbestos, Mr. Nash sees his prime task as consolidating all the many and complex safety requirements applicable to the Cape Group in its many and constantly-growing range of activities. Prior to joining CIL in June, Mr. Nash had served for 15 years with H.M. Factory Inspectorate (now the Health and Safety Executive). . . . *F. J. A. Howard*, an Alternate Director of Charter Consolidated Ltd., was appointed a Non-Executive Director of CIL. . . . *H. M. S. Tanner* has succeeded *Dr. R. Gaze* as Managing Director of Cape Asbestos Fibres Ltd. Dr. Gaze continues as Chairman of the company. . . . *I. G. Gale* was named to succeed *W. S. Scott* as Secretary of CAFL.

JOHNS-MANVILLE CORPORATION

Johns-Manville announced the appointments of three Corporate Vice Presidents. *John B. Dorsey* becomes Vice President for Corporate Marketing and Growth Planning. He joined J-M in 1955 as a Salesman-in-Training. *William A. Sells* was named Vice President for Corporate Production and Engineering, having joined the company in 1960 as a member of the pipe products sales force. *Everett C. Truax* is Vice President and General Manager, Fiber Glass Manufacturing Division. He joined J-M in 1936 as a Department Clerk.

H. K. PORTER COMPANY, INC.

John P. Corman was named President of the newly-reorganized Tidewater Supply Company, it was announced by *E. P. Evans*, Porter Chairman. Mr. Corman's most recent assignment was Vice President of Sales and Marketing for Hajoca Corporation. . . . The Thermoid Division announced the promotion of *K. Sharma* to the position of Manager of Research and Development at the Chanute Works. His new duties will in-

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clude directing all quality control functions for Aeroduct flexible ducting. . . . *Arnold J. Dovey* is now Sales Representative for Aeroduct flexible ducting products on the West Coast. He had been with Arrowhead Products Company.

TURNER & NEWALL LTD.

R. L. Gentle was named a Director of TBA Industrial Products Ltd., succeeding *K. T. Holehouse* who becomes Finance Director. Mr. Gentle had been Controller, Group Management Services for T&N. . . . Following T&N's acquisition of a majority control of Philip A. Hunt Chemical Corporation, *C. W. Newton* was elected a Director and Chairman of Hunt. He is Managing Director of Turner & Newall. . . . *Dr. N. A. Cutler* has resigned from the Board of British Industrial Plastics Ltd., another subsidiary of T&N, to take up his new appointment as Coordinator—U.S. Chemical Development. He also was elected a Director of Hunt Chemical.

WOODSREEF MINES LTD.

H. H. Robinson has relinquished his post as Managing Director of Chrysotile Corporation of Australia Pty. Ltd. He is Chairman and Managing Director of Woodsreef Mines and the move will allow him more time to direct the diversified activities of the Woodsreef Group. . . . *Dr. R. J. Merrill* was appointed Managing Director of Chrysotile Corporation. He has had 28 years experience in asbestos mining and milling and most recently was President of United Asbestos Inc.

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BIRTHDAY GREETINGS to . . .

Morris J. Baty, a Director, BBA Group Ltd., Cleckheaton, Yorkshire, England, December 15.

J. L. Newby, Managing Director, Humes Ltd., Melbourne, Victoria, Australia, December 18.

Faustin J. Solon, Jr., Vice President-Environmental Affairs, Johns-Manville Corporation, Denver, Colorado, December 18.

D. E. Hillier, Director of Environmental Engineering, Johns-Manville Corporation, Denver, Colorado, December 19.

Jeremiah J. Attridge, Vice President and General Manager, Corporate Advertising and Sales Promotion, Johns-Manville Corporation, Denver, Colorado, December 23.

Dr. Stephen Holmes, Consultant, TBA Industrial Products Ltd., Rochdale, Lancashire, England, December 23.

A. W. G. Gibb, General Traffic Manager, Asbestos Corporation Ltd., Montreal, Quebec, December 25.

J. C. McKendry, Jr., Vice President, Niagara Insulations Company, Buffalo, New York, December 27.

J. B. Reid, Chairman, James Hardie Asbestos Ltd., Sydney, New South Wales, Australia, December 27.

William J. Barkell, Vice President-Sales, A & M Insulation Company, Chicago, Illinois, December 28.

S. R. Heath, Jr., Vice President-Purchasing, Johns-Manville Corporation, Denver, Colorado, December 28.

P. Osborne, Managing Director, Don International Ltd., Manchester, Lancashire, England, December 28.

William B. Hoffman, Vice President-Manufacturing, Gold Bond Building Products Division, National Gypsum Company, Buffalo, New York, December 29.

F. P. Parkes, Chief Executive, Automotive and Engineering Division and a Director, Cape Industries Ltd., London, England, December 29.

Noel W. Hendry, General Manager, Mining Division, Johns-Manville Corporation, Denver, Colorado, January 2.

Joseph A. Munder, Jr., Mid-West Regional Manager, Carey-Canadian Mines Ltd., Plano, Illinois, January 2.

William H. Price, President, Garlock of Canada Ltd., Toronto, Ontario, Canada, January 2.

Octave Mousseau, Vice President and Secretary-Treasurer, Bell Asbestos Mines Ltd., Thetford Mines, Quebec, January 3.

Edmund M. Fenner, Director-Technical Relations, Environmental Affairs Department, Johns-Manville Corporation, Denver, Colorado, January 4.

N. Venkataraman, Managing Director, Hindustan Ferodo Ltd., a subsidiary of Turner & Newall Ltd., Ghatkopar, Bombay, India, January 4.

J. A. Campbell, Jr., Sales Manager, Refractory Products Department, Johns-Manville Corporation, Toledo, Ohio, January 5.

Charles L. Horst, Plant Manager, Norristown Plant, Nicolet Inc., Ambler, Pennsylvania, January 5.

Maurice E. Taschereau, President and Chief Executive Officer, Asbestos

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Corporation Ltd., Montreal, Quebec, January 5.

Lawrence B. Row, Vice President-Materials and Sales Services, RM Friction Materials Company, Raybestos-Manhattan, Inc., Trumbull, Connecticut, January 7.

A. P. Higgins, a Director, James Hardie Asbestos Ltd., Sydney, New South Wales, Australia, January 10.

J. A. Kerns, Sales Manager, Original Equipment Division, RM Friction Materials Company, Raybestos-Manhattan, Inc., Trumbull, Connecticut, January 12.

Alexander Smith, Vice President-Sales, Southern Asbestos Company, Charlotte, North Carolina, January 13.

THE SUNBURYS—DIAMOND ANNIVERSARY

The 60th anniversary of the marriage of *Herbert E. and Christine L. (nee Fowler) Sunbury* was celebrated at a surprise dinner party on October 1, 1977. Nearly 100 relatives and friends attended the event. . . . Mr. Sunbury is a graduate of Lowell Technological Institute and a veteran of World War I. Following retirement in 1962 as Sales Manager-Asbestos Products for Uniroyal, Inc., he served for ten years as Executive Secretary of the Asbestos Textile Institute, Inc. . . . The Sunbury family numbers 49, including six children, 18 grandchildren and 12 great-grandchildren.

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SELECTED SILICATE MINERALS AND THEIR ASBESTIFORM VARIETIES: MINERALOGICAL DEFINITIONS AND IDENTIFICATION CHARACTERIZATION—Report by the Particulate Mineralogy Unit, U.S. Bureau of Mines; recommends mineralogical definitions and identification-characterization concepts; because of the complexity and variability of crystal morphology in different mineral groups, the descriptive terms are generally explained by illustration rather than by numerical values; applications and limitations of several analytical techniques for particulate identification and characterization are discussed. [56 pages; USBM Information Circular 8751; direct communications to W. J. Campbell, U.S. Bureau of Mines, College Park Metallurgy Research Center, College Park, Maryland 20740]

THE DEVELOPMENT OF CRITERIA FOR FIREFIGHTERS' GLOVES—Two-volume report prepared by Arthur D. Little, Inc., for the National Institute for Occupational Safety and Health; Volume I identifies glove requirements in detail and presents recommendations for both glove standards and a prototype glove system which will meet those standards; Volume II traces the quantitative development of the glove criteria summarized in the recommendations for glove standards and describes the test methods which were devised for validating the protective and other properties of firefighters' gloves. [Contact ASBESTOS Magazine for information on securing copies]

THERMAL ANALYSIS TECHNIQUES—Proceedings of a round-table discussion sponsored in 1975 by the Measurements Research Branch, National Institute for Occupational Safety and Health, to survey the state-of-the-art and explore possible applications of thermal techniques to the field of occupational safety and health; includes formal presentations by nine invited participants and one NIOSH representative; particular emphasis is directed to measuring airborne quartz and asbestos. [255 pages; HEW Publication No. (NIOSH) 76-173; free copy available from NIOSH Division of Physical Sciences and Engineering, Cincinnati, Ohio]

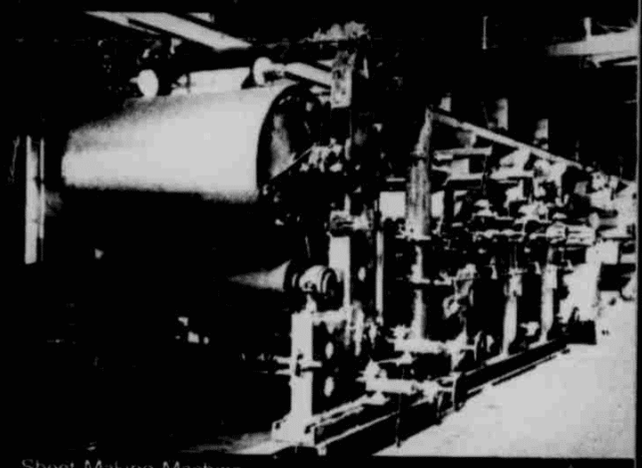
PRACTICAL TECHNIQUES FOR SAVING ENERGY IN THE CHEMICAL, PETROLEUM AND METALS INDUSTRIES, 1977—An energy and chemical technology review by M. Sittig; discusses waste utilization, process in-

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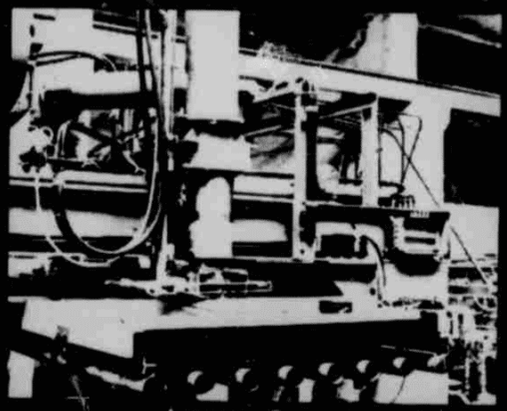
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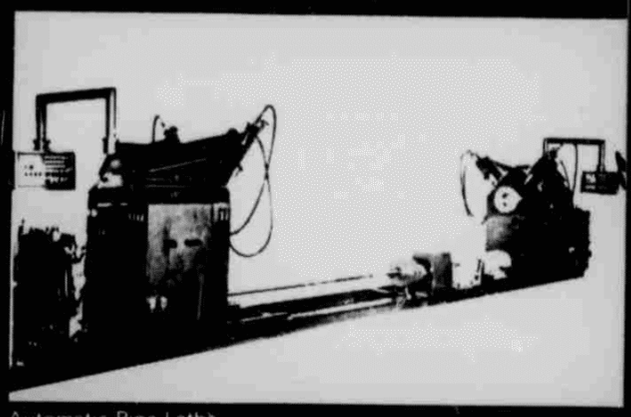


Sheet Making Machine

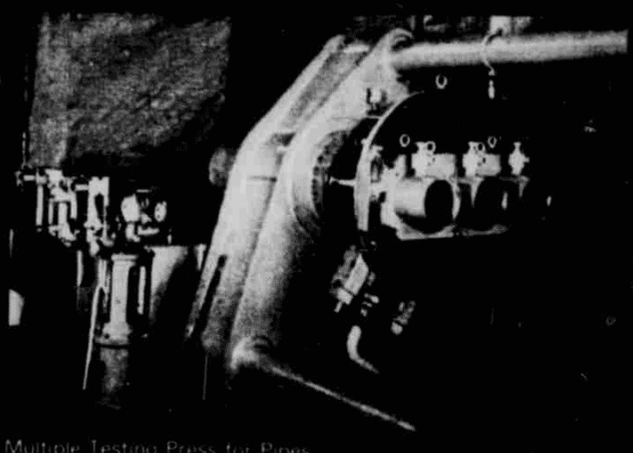
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Automatic Corrugating unit shown without it's Plastic rug



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PULP AND PAPER MANUFACTURE/ENERGY CONSERVATION AND POLLUTION PREVENTION, 1977—A pollution and energy technology review by M. Sittig; this industry is the fourth largest commercial consumer of energy and the third largest user of water in the United States; the book is based on government-funded studies and important U.S. patents. [429 pages; $39.00; order from Noyes Data Corporation or through ASBESTOS]

LABOR ECONOMICS: A GUIDE TO INFORMATION SOURCES—An easy-to-consult guide to books and articles relating to the complex field of labor economics which shares concerns with industrial relations, collective bargaining, labor law, urban economics and consumer economics; over 50 major subjects are covered, each representing a sub-field of study. [250 pages; $18.00; order from Gale Research Company or through ASBESTOS]

STATISTICS SOURCES—Reference book edited by P. Wasserman and J. Bernero; this Fifth Edition is international in scope and includes citations of the best sources of statistical data for nearly every country in the world; includes more than 22,000 citations arranged in a single alphabetical sequence by subject. [976 pages; $58.00; order from Gale Research Company or through ASBESTOS]

ENVIRONMENTAL IMPACT ANALYSIS: A NEW DIMENSION IN DECISION MAKING—Detailed handbook by R. K. Jain, Ph.D., et al.; systematizes the data necessary to develop a thorough analysis of a project's effect on the environment; presents a complete guide to methodology, covering the spectrum of environmental characteristics; deals in depth with public participation, economic impact analysis and energy; reproduces the entire National Environmental Policy Act. [324 pages plus index; $22.50; order from Van Nostrand Reinhold or through ASBESTOS]

STANDARDS, INTERPRETATION AND AUDIT CRITERIA FOR PERFORMANCE OF OCCUPATIONAL HEALTH PROGRAMS—A comprehensive criteria manual detailing standards developed for occupational health programs, complete with checklists for use in evaluation and planning; five sections covering industrial hygiene, medicine, nursing, health, physics and administration are described. [225 pages; $30.00; order from American Industrial Hygiene Association, 66 South Miller Road, Akron, Ohio 44313]

CANCER: A COMPREHENSIVE TREATISE/VOLUME 5: CHEMOTHERAPY—Edited by F. F. Becker of the University of Texas System Cancer Center; deals with the area of chemotherapy of tumors emphasizing the basic scientific and clinical investigative aspects of the field; pays par-

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ticular attention to the cellular and macro-molecular areas of interaction. [652 pages; $51.00; order from Plenum Publishing Corporation or through ASBESTOS]

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NEW "PIEZO-FLEX" MICROPOSITIONING STAGE PERMITS SMOOTH CONTROL OF DISPLACEMENTS IN MICROSCOPE SYSTEMS—Discusses a micropositioning stage which has been developed for use with optical and electron microscopes in the accurate measurement of microscopic objects such as biological cells, air pollution particles, asbestos fibers, the fine lines used in microcircuit devices and micro-gap heads in tape recording equipment. [NBS Staff Report, 1 page]

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AMERICAN INDUSTRIAL HYGIENE ASSOCIATION—The following articles were published in recent editions of the AHIA Journal: Sources and Dissemination of Contamination in Material Handling Operations [10 pages]; Further Comments on Novel Schedule TLVs [4 pages]; Performance of Single-Use Respirators [6 pages].

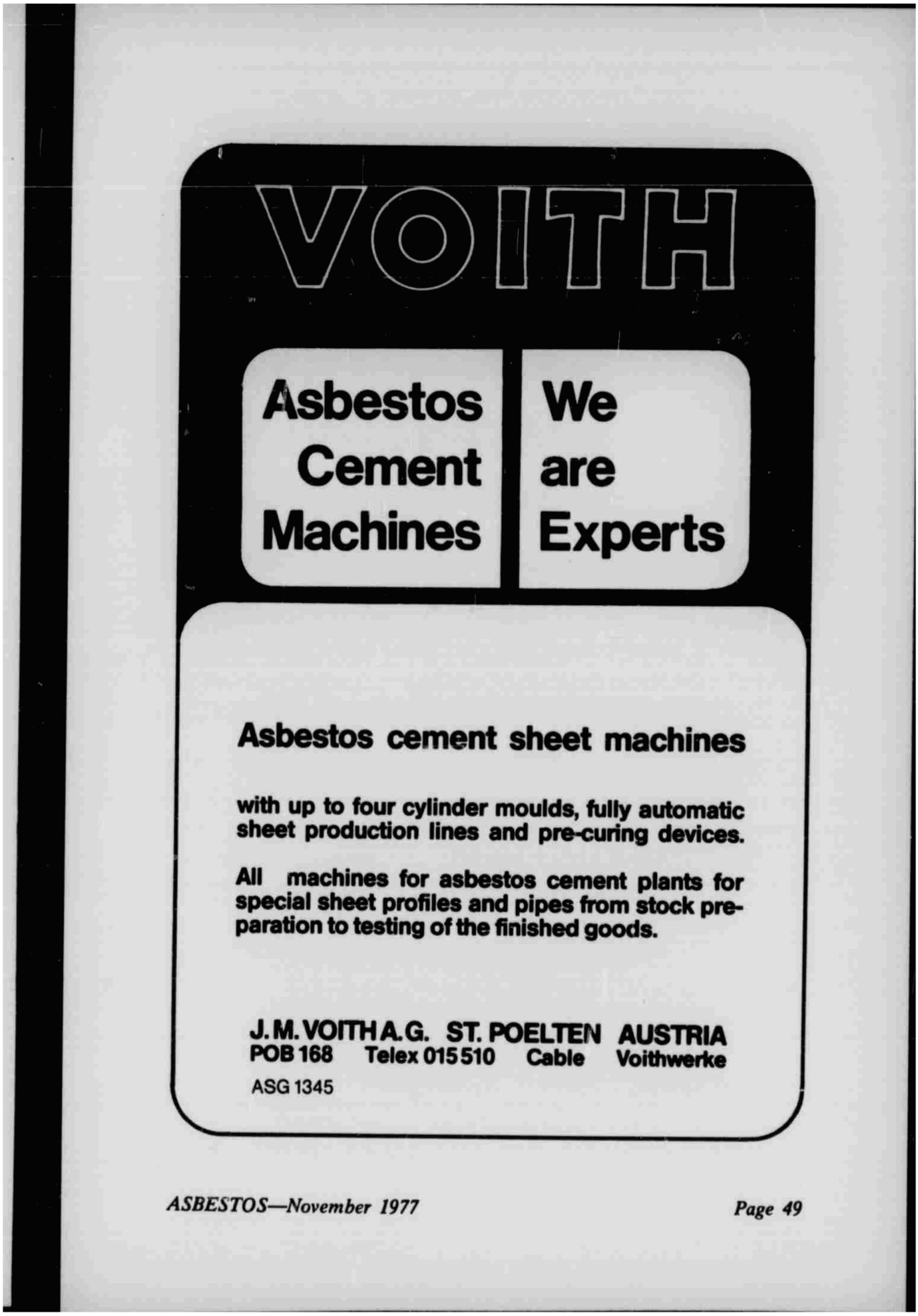
STILL AVAILABLE . . .

ASBESTOS/A REMARKABLE MINERAL FIBER—Reference book on asbestos by Marion S. Badollet; presents technical information on asbestos minerals and data on the chemical, physical and optical properties of Chrysotile, Riebeckite, Anthophyllite and Tremolite; contains electron micrographs, thermal analyses and X-ray diffraction patterns. [80 pages; $20.00 per copy; advance payment required; order from ASBESTOS Magazine]

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]

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CALENDAR OF EVENTS

SIMULATION—Winter Conference sponsored by the National Bureau of Standards and six trade organizations; NBS Headquarters, Gaithersburg, Maryland, *December 5-7.*

RECOGNITION OF OCCUPATIONAL HEALTH HAZARDS—Course in the basics of industrial hygiene co-sponsored by the American Industrial Hygiene Association and the National Institute for Occupational Safety and Health; *December 5-9* in Long Beach, California; *January 9-13* in Tampa, Florida; *February 6-10* in Seattle, Washington.

TOXIC SUBSTANCES CONTROL—Conference to provide a comprehensive understanding of toxic substances controls, issues and solutions; presented by Government Institutes, Inc., in cooperation with Pollution Engineering Magazine; Shoreham Americana Hotel, Washington, D. C., *December 8-9.*

ORE DEPOSITS—3rd Annual Workshop of the Department of Geology, University of Toronto; Toronto, Ontario, *December 12-16.*

COMPUTER NETWORKS—Symposium sponsored by the National Bureau of Standards and the Institute of Electrical and Electronic Engineers; NBS Headquarters, Gaithersburg, Maryland; *December 15.*

PROFESSIONAL DEVELOPMENT—Seminars of the Department of Mining and Metallurgical Engineering at McGill University, Montreal, Quebec: Union-Management-Employee Relations in the Mineral Industry, *January 9-11;* Health and Safety Aspects of the Mine Environment, *January 23-27;* Engineering Aspects of the Mine Environment, *January 30-February 3.*

TECHNICAL WRITING FOR THE MINERAL INDUSTRY—Course sponsored by the Mackay School of Mines; University of Nevada, Reno, Nevada, *January 11-13.*

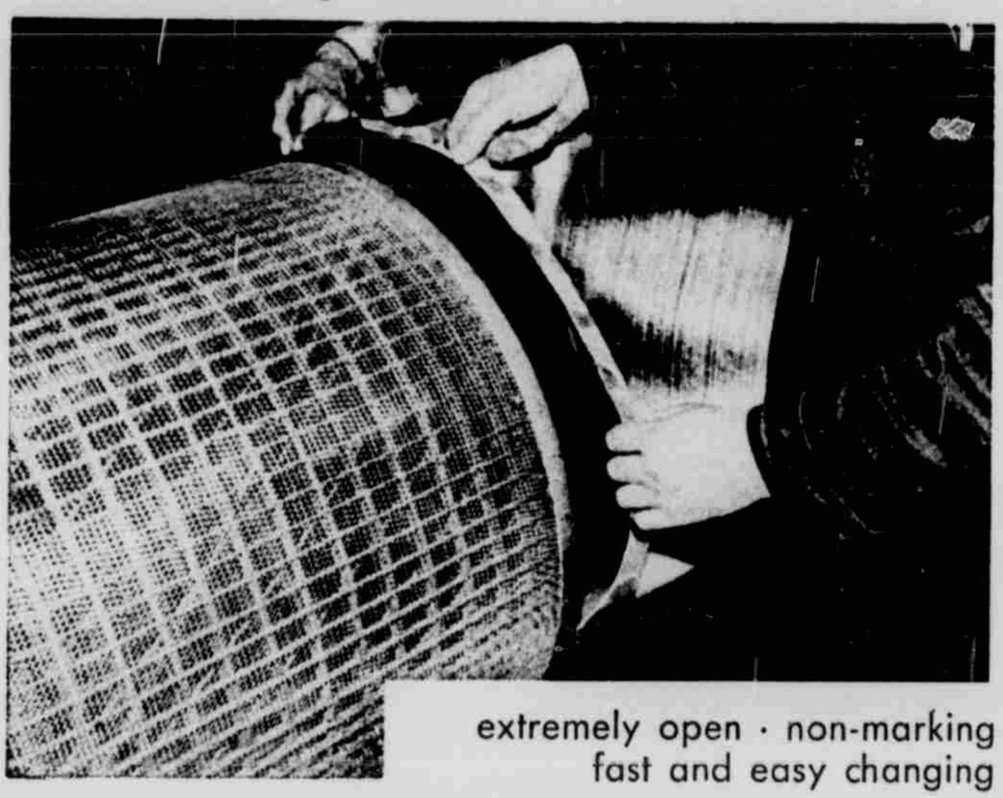
AMERICAN SOCIETY FOR QUALITY CONTROL—Courses conducted by the ASQC Education and Training Institute: Quality Engineering, California State University, Northridge, California, *January 16-20,* and Hilton Inn, Clearwater Beach, Florida, *March 13-17;* Managing for Quality, Hilton Inn, Clearwater Beach, Florida, *February 13-17;* Managing the Inspection Function, Ramada Inn, Milwaukee, Wisconsin, *March 20-22.*

RESOLVING CORROSION PROBLEMS IN AIR POLLUTION CONTROL EQUIPMENT II—Seminar sponsored by the Air Pollution Control Association, the Industrial Gas Cleaning Institute and the National Association of Corrosion Engineers; Hilton Hotel, Atlanta, Georgia, *January 17-19.*

U.S. TRADE CENTER EXHIBITIONS—Process Control Instruments; - *January 24-27* in Milan, Italy; *January 31-February 3* in Paris, France.

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REMEMBER WHEN?

(October 1927 ASBESTOS)

New Advertiser: Whitin Machine Works, Whitinsville, Massachusetts.

This issue reported on the celebration by Garlock Packing Company of the Fortieth Anniversary of its founding in Palmyra, New York. George L. Abbott, a pioneer in the U.S. asbestos textile industry, was Vice President and General Manager of Garlock at that time.

Harry H. Heckroth, former Assistant Manager of Keasbey & Mattison Company's Philadelphia office, became associated with the Philadelphia operation of the Philip Carey Company.

Bell's United Asbestos Company announced plans for construction of a South African plant for production of asbestos-cement building materials and of another for the manufacture of a-c pipes.

The Asbestos Brake Lining Association reported the resignation of its Commissioner, O. B. Towne, who had served in that capacity since May 1, 1925.

Asbestos Corporation Ltd. announced it had placed contracts for erection of a new mill at its Beaver Consolidated Mine, Thetford Mines, P.Q.

B. Marcuse was elected President and Manager of the Canadian Asbestos Company.

(November 1927 ASBESTOS)

This issue contained pictures of the new St. Louis, Missouri, plant of Eternit, Inc., erected for the manufacture of asbestos-cement roofing and siding. The roof of the main building had an area of 300,000 square feet and was covered entirely with a-c corrugated roofing.

The Asbestos Brake Lining Association announced the appointment of W. J. Parker as its new Commissioner. Mr. Parker was also Commissioner of the National Battery Manufacturers Association.

It was reported that Ford cars would henceforth use asbestos linings in place of the cotton linings previously used in their planetary transmissions. The size of this market was estimated at 31-million feet of lining per year.

The Allbestos Corporation was awarded a Gold Medal for "superior quality" in an international exposition held at Budapest, Hungary, where a full line of Allbestos products was exhibited.

Discovery of a large deposit of Chrysotile asbestos near Balangero, Italy, was reported. The find was about 180 kilometers from Genoa and was estimated to have a potential output of 12,000 to 15,000 tons of fiber per year.

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3. FREQUENCY OF ISSUE	A. NO. OF ISSUES PUBLISHED ANNUALLY	B. ANNUAL SUBSCRIPTION PRICE
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131 North York Road, Willow Grove, Pennsylvania 19090

5. LOCATION OF THE HEADQUARTERS OR GENERAL BUSINESS OFFICES OF THE PUBLISHERS *(Not printers)*
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Stover Publishing Co., 131 North York Road, Willow Grove, Pa. 19090

EDITOR *(Name and Address)*
D. M. Fagan, 407 Winner Road, Hatboro, Pa. 19040

MANAGING EDITOR *(Name and Address)*
Same as Editor

7. OWNER *(If owned by a corporation, its name and address must be stated and also immediately thereunder the names and addresses of stockholders owning or holding 1 percent or more of total amount of stock. If not owned by a corporation, the names and addresses of the individual owners must be given. If owned by a partnership or other unincorporated firm, its name and address, as well as that of each individual must be given.)*

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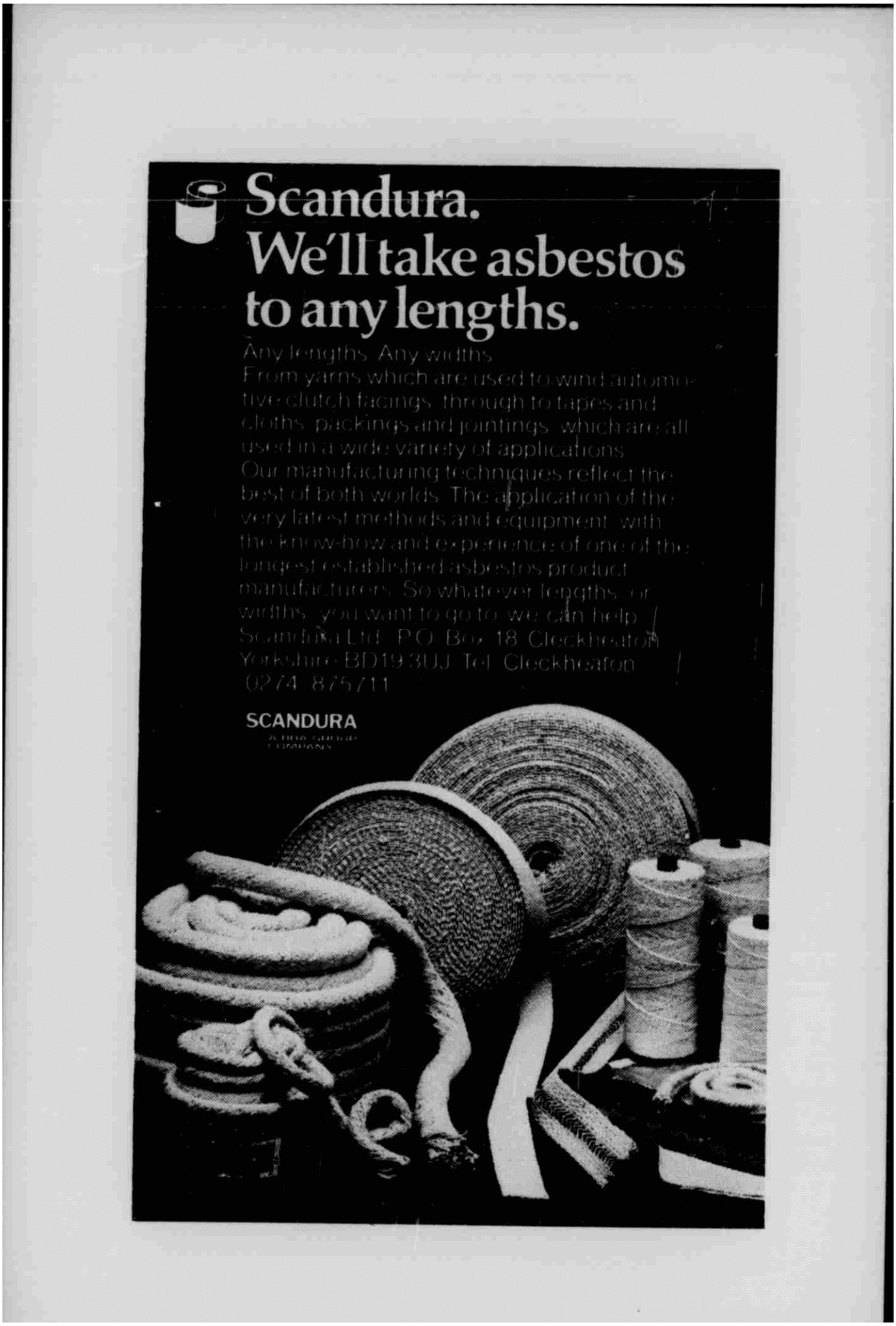
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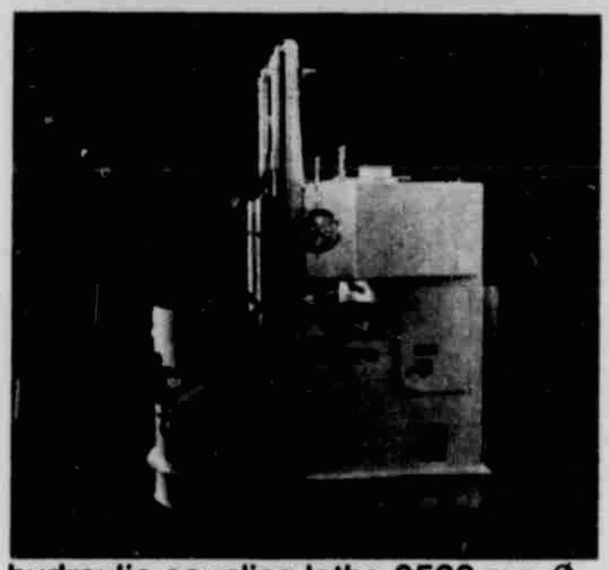


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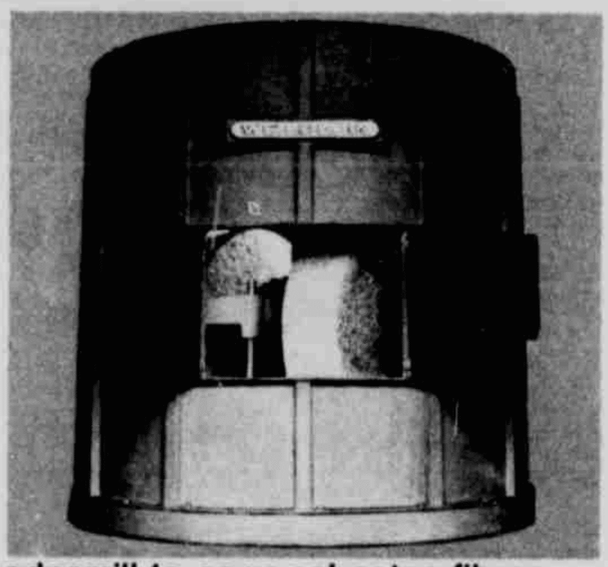
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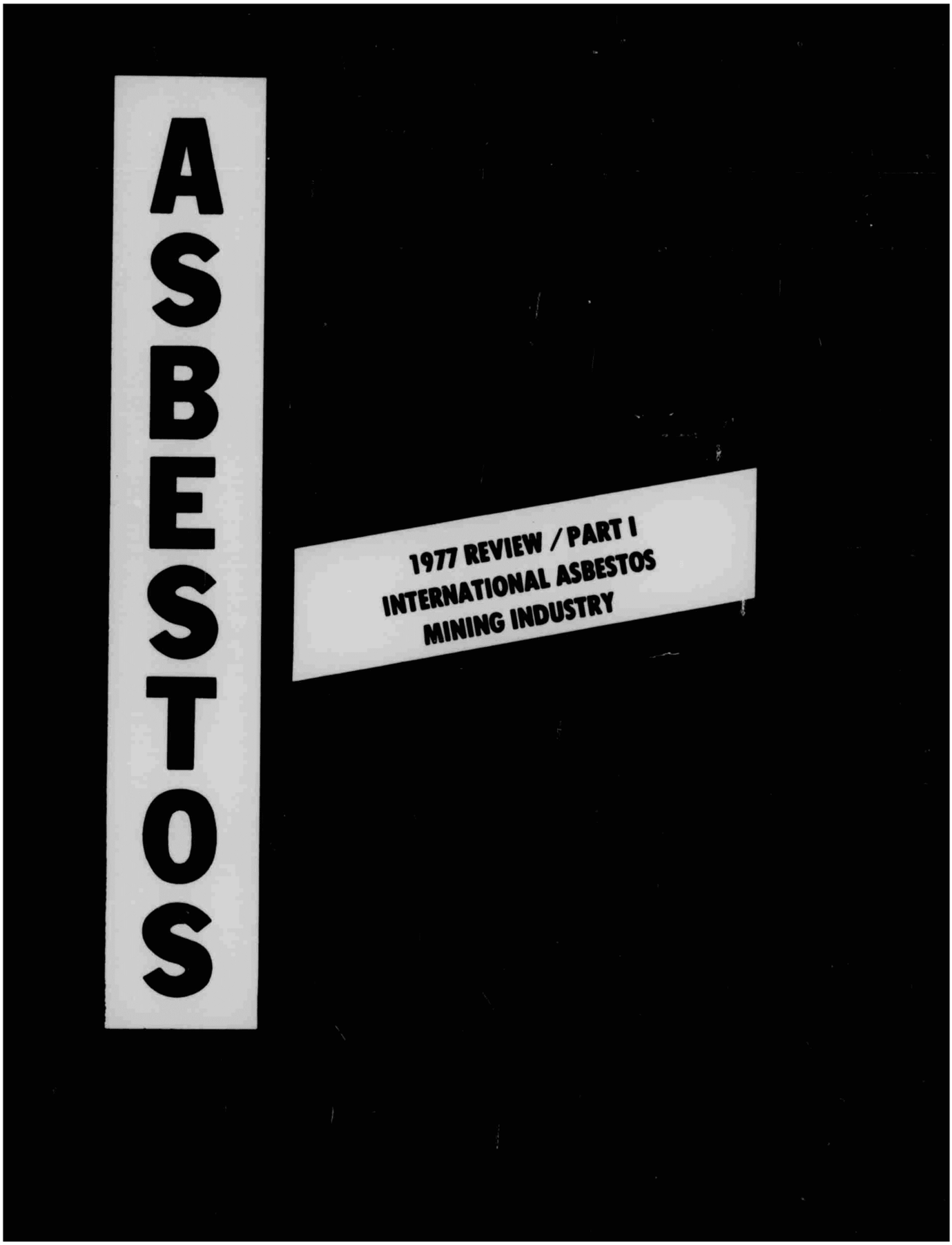
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